

## **Report of the Health Officer, Corporation of Madras Health Department.**

### **Contributors**

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*C. King*  
*1915*

ADMINISTRATION REPORT

OF THE

CORPORATION OF MADRAS

FOR

1915-1916.



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Madras:  
PRINTED BY THOMPSON & CO.,  
33, POPHAM'S BROADWAY.

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1916.

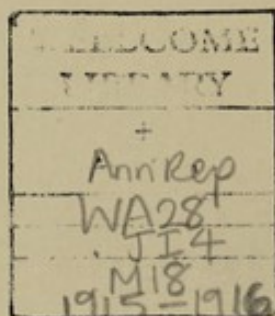


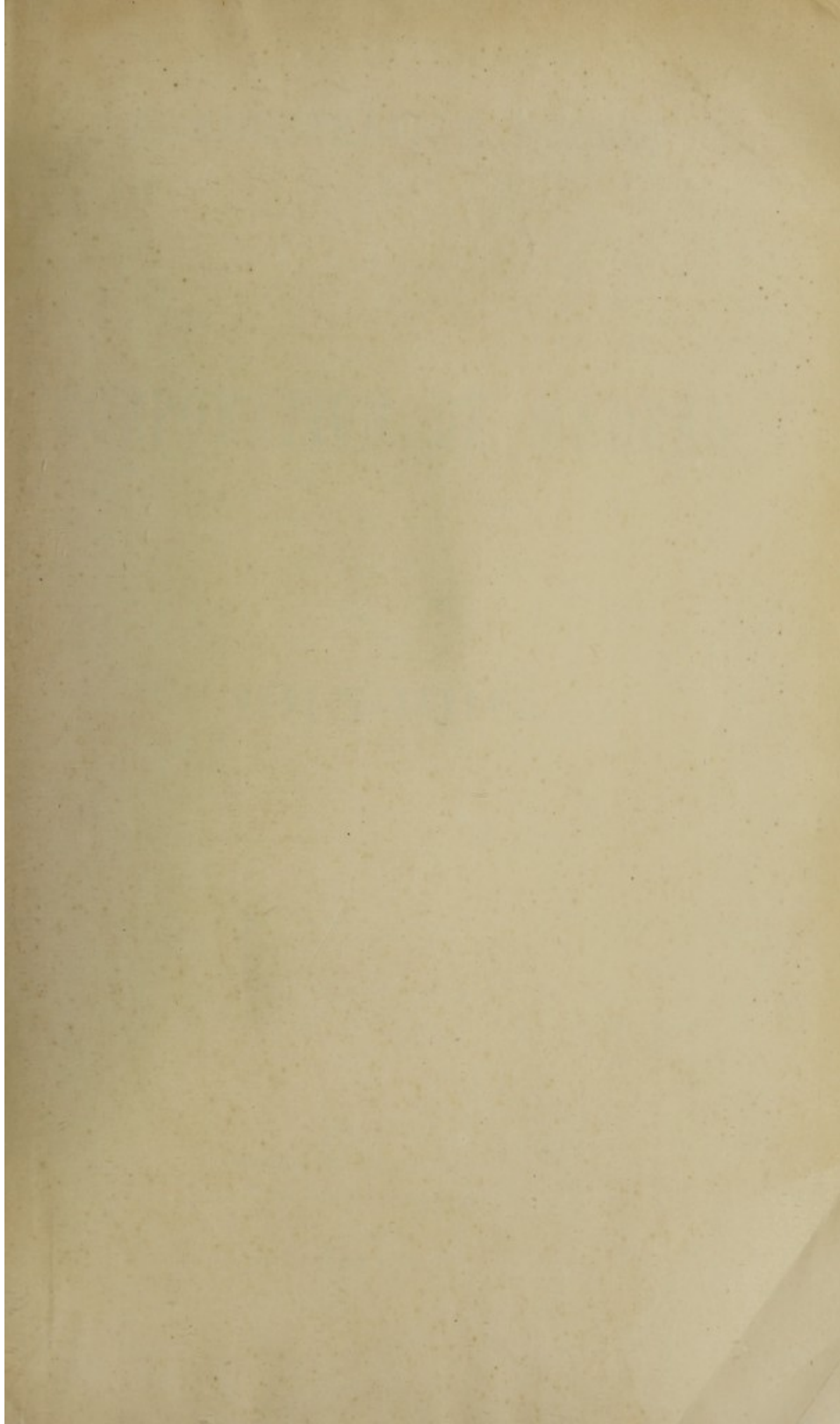
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THE HISTORY OF THE

ISLAND OF MADRAS

1700-1709



**ADMINISTRATION REPORT**

OF THE

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FOR

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PRINTED BY THE  
GOVERNMENT OF MADRAS  
AT THE GOVERNMENT PRESS,  
MADRAS.

1916.

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## INTRODUCTION.

The interest attaching to an annual administration report is invariably lessened by the interval that must elapse between the close of an official year and publication. This interval or delay is unavoidable, for though enlightening figures of receipts and expenditure may be summarised in a very small space, the accurate adjustment of inter-departmental accounts on which these figures are based is necessarily a long and tedious process. Still the delay is not without its advantages, inasmuch as five months actual experience of a new year affords valuable material on which to base criticisms of policy in a year that is past.

2. Of more real interest than a recital of events which actually happened in the year 1915-16 is the statement of a general question which the Corporation has had to consider often and again during that year, and which will become most inconveniently insistent twelve months hence. The question is that of obtaining sufficient money wherewith to carry on the administration of the city. The superfluity of wealth shown by the following figures is, I fear, quite illusory :—

|                        | Revenue.                  |                  | Capital.                  |                  |
|------------------------|---------------------------|------------------|---------------------------|------------------|
|                        | Revised Estimate 1915-16. | Actuals 1915-16. | Revised Estimate 1915-16. | Actuals 1915-16. |
| Receipts ... ..        | 39,05,900                 | 39,08,512        | 15,56,850                 | 15,50,107        |
| Expenditure ... ..     | 33,13,830                 | 31,23,088        | 15,45,460                 | 14,07,631        |
| Closing balance ... .. | 5,92,070                  | 7,85,424         | 11,390                    | 1,42,476         |

For in the first place we have to record our gratitude to Government for an unexpected windfall of four lakhs of rupees in the last days of the year. In the second place a certain amount of quite unintentional "window dressing" seems inevitable in our accounts. All bills unpaid on the evening of March 31st go to swell our closing balance.

3. A Committee which in October 1915 drew up revised estimates of receipts and expenditure during the year anticipated a real closing balance of Rs. 1,31,850 on revenue account, and Rs. 61,390 under the head of capital. This forecast, I may say, has proved substantially correct, if due allowance be made for the large donation of Government and for bills due but not actually presented until after March 31st, 1916. One proposal or step of this Committee deserves specific mention; it has been subjected to considerable criticism, but was in my opinion a natural and advisable step under the circumstances prevailing when it was taken. A considerable sum was required about the time that this Committee sat for "capital expenditure." The Committee considering the circumstances of



the time decided that the moment was inopportune either to ask Government for a grant or to float a loan. They found at their disposal Rs. 5,00,000 of revenue balance which could not possibly be spent within the financial year 1915-16; they therefore decided to lend four lakhs of this amount to the capital account of drainage and water-supply, to lend one lakh to the account of electric lighting, and to float a loan at the commencement of the year 1916-17. The policy seemed wise at the time, inasmuch as, all question of the terms on which a loan could be obtained being set aside, the Corporation thus worked with its own spare money instead of paying interest on borrowed capital. But when at the close of 1915-16 the money market was closed to local borrowing, this apple of the Committee's forethought turned to very acid dust and ashes in their mouths. Government solved the temporary difficulty by presenting four lakhs to the Corporation for water and drainage works, and by advising reduction of capital expenditure on electric lighting from Rs. 1,00,000 to Rs. 50,000.

4. After this digression I return to my main theme, the exposition of our present poverty and approaching penury. Of this indigence there can be no doubt; the cause thereof is the fact that the normal expenditure of the city is beginning to exceed its normal receipts. I have had prepared a series of these "normal" figures extending over several years; and, though probably no two persons will quite agree as to the definition of "normal," my figures may be relied on at least in so far as they exhibit proportion and tendency.

5. The "normal" income of the city in 1906-07 was Rs. 18,75,396, and the "normal" expenditure, from which all expenditure on new works is excluded, was Rs. 17,36,598. Up to 1914-15 "normal" income increased much faster than "normal" expenditure; even with large expenditure on new works large balances remained, or appeared to remain, on hand. I say "appeared to remain" advisedly, for I fear the fact that money due but not paid out on March 31st does not constitute a real balance was at times overlooked. But in 1915-16 "normal" expenditure has risen to Rs. 28,59,730 as against a "normal" income of Rs. 28,01,720; and this excess, I anticipate, in 1916-17 will reach the disquieting total of Rs. 1,10,000. The deficit can be made good, and a certain amount of practically essential new work undertaken from balances, but when these balances are exhausted, as they soon must be, the financial shoe will develop a most inconvenient pressure on the administrative foot.

6. I do not consider this increase of expenditure to have been due to extravagance; I believe that it was inevitable. The Corporation has done more of the things that the Corporation of a big city is bound to do. Increase of capital expenditure has meant increased payments to interest and sinking fund from revenue. Each new school or hospital founded, each water or sewage pumping installation accomplished, has meant a heavy annual increase in running charges.

7. The main financial trouble of the Corporation has been, is, and will be the Special Works Department, or department of water and drainage. Much has been written and more talked on this subject, yet I may venture a succinct justification of a department which the average rate-payer, I fear, looks on as an



esurient and insatiable white elephant that preys on the substance of the people. Digressing for a preliminary moment, I may characterise as unfounded a charge often made against the Special Engineer (Mr. Madeley) that his estimates unceasingly increase. From the estimates of his water and drainage scheme reports, Mr. Madeley has not varied ; but he has been asked to design and estimate for several additional works not originally contemplated either by him or by the Corporation.

8. The maximum water-supply of the city in former days, when water was distributed by gravitation, was approximately seven million gallons per day. The new pumping installation at Kilpauk supplies on an average twice that quantity, and has on occasion supplied up to 20 million gallons per day. Though the cost of this pumping (inclusive of establishment) during 1915-16 amounted to more than a lakh, no reasonable person could wish for a return to the old conditions. To the part played by increased water-supply in improving our vital statistics in the past year the Health Officer has testified ; it is a fair assumption that much of the deplorable mortality of Madras has hitherto been due not so much to bad water as to the absolute lack of water of any kind. Increased water-supply necessarily means increased sewage ; the cost of sewage pumping has risen from Rs. 60,000 in 1903-04 to Rs. 1,54,000 in 1915-16, and with the laying of water pipes into parts of the city hitherto untouched this cost will rise still further in 1916-17.

9. But in respect of drainage I can feel much sympathy with the dissatisfaction of the ratepayers. Drainage work has been going on for thirty years or thereabouts, and yet Madras is not drained. The truth is that early sewers were insufficient in size, the gradients were too flat, the materials and workmanship often bad. Mr. Madeley's present work is to tear up and replace much of what has been done before, and to utilise to better advantage the small portion that is utilisable. Much has been done, but the result is as yet only apparent in the negative sense that save for what has been accomplished, the condition of affairs in Madras with its vastly increased sewage would be appalling. It is, however, difficult to get the "man in the street" to appreciate this fact, and it is certainly unjust to blame him for failing to appreciate it. It only remains for the Corporation to persevere.

10. I shall not labour this point further. Our present sources of taxation can yield us little if anything more ; new sources must be rendered available to us by legislation. We must go on ; we have no collective Corporate throat, we cannot with Mr. Micawber quote Addison ("Cato thou reasonest well") and sombrely bethink ourselves of shaving tackle. Sanitation, health, progress, all have to be paid for, but they are well worth the payment.

11. Finance is mainly an executive care ; the ratepayer in all countries seldom realises that a public body can be poor, and is apt to keep his eyes fixed on the whole that should be done rather than on the part that can be paid for. The alpha and omega of municipal administration to my mind is care for the public health. What has been accomplished in this matter during the past year is far less than I could desire, but I may fairly claim that to attain the progress



that has been made no effort of the Corporation's servants has been spared. Though the Health Officer in his report lays no claim to credit, most people who know the inside of things in Madras will admit that Dr. Raghavendra Rao has succeeded in infusing an entirely new spirit into his department. I wish also to acknowledge the excellent work done by Dr. Singaravelu Mudaliyar in directing the conservancy of the city and above all to recognise the cheerful loyalty with which he accepted a decision of mine that to him must have been a disappointment.

12. The report of the Health Department deals with the calendar year 1915, not with the official year 1915-16. From January to December 1915 we have been spared the scourge of cholera; I can only hope that our good fortune will continue in the three and a half months of the year 1916 that have yet to run their course. We suffered from a severe epidemic of small-pox, and the disease still lingers in the city. Our statistics, in my opinion, exaggerate the virulence of the outbreak; the report of deaths from this disease I believe to be far more complete than that of attacks. Yet even in the matter of death reports the medical profession, I venture to think, could do more to help us than is now done. The percentage of deaths reported by medical men during 1915 was 11.6, and to this small total private medical men contributed but 2.6, the remaining 9 per cent. coming from public hospitals.

13. I would again emphasise my belief that "the people" can do more for the sanitation of Madras than can "the Executive." A man who is ill cannot complain of his ill-health if he refuses or neglects to carry out the treatment prescribed by his physician; the sanitary regulations of the Municipality are the treatment prescribed by that collective doctor the Health Department for the collective patient known as "the public." The patient is undoubtedly becoming more amenable to reason, but he is still far from complete reasonableness, and from a recognition of the fact that nature, if impartial, is merciless. The meaning of this last observation I wish to explain.

14. The Corporation can prescribe and to some extent enforce, certain objective acts and forbearances. We can demand that people shall build their houses in accordance with certain sanitary regulations, that they shall not scatter rubbish in the streets, shall not themselves use, or allow their children to use these streets as latrines. On these themes I have discoursed, possibly a better description would be to say "yapped," for the last two years, and I gratefully admit that "the people" have on the whole paid more attention to the intentions of my discourse than to the manner of my speech. But neither a corporate body nor its executive can enact the *role* of a social or religious reformer, and much of the ill-health of Madras, irremediable by the Corporation, can, I suspect, be traced to social customs over which time has cast the glamour of religion.

15. The Health Officer has recorded that the several communities of Madras occupy positions unvarying from week to week in the scale of mortality. European, Anglo-Indian, Indian Christian, Hindu, Muhammadan, this order in the precedence of death, is unchanging. The European community I disregard; the European emigrant to India is usually what the Insurance Offices call a "picked



life," and in case of serious illness he returns to his home land. But the Muhammadan at the other end of the scale, what explanation can be assigned for his unvarying "bad pre-eminence"? Ignorance and poverty have been suggested, but to my mind these are effects of a great underlying cause, namely, the debarment of one half the population from free air and liberty of movement. If the gosha system is founded on religion, the Muhammadan may claim that he is right in acting according to his conscience. But nature pays no heed to conscience; though martyrs have gone to the stake for conscience, the fire has not on that account refrained from its burning. I cannot myself believe that a social system needed and advised fourteen hundred years ago in Arabia is necessary or advisable to-day in the slums of Triplicane. Similarly I believe that deep-rooted social habit underlies the excess of Hindu over Eurasian and Anglo-Indian mortality; the mental and material disparity between the *average* Brahmin and the *average* Indian Christian is not adequately represented by a difference of 5.7 per cent. in the death-rates of their respective communities.

"Strike me, but hear me," said Themistocles. In the same spirit I commend this train of thought to the attention of my Indian fellow citizens.

16. To the excellent remarks of Dr. Raghavendra Rao regarding congestion, I have but one remark to add—*decies repetita placebit*? "Congestion in Madras will never be relieved till we have more tram lines. The Corporation has acquired for demolition extensive rookeries in Triplicane; these cannot be pulled down until some possibility of accommodation is provided for the evicted. And poor people cannot move far from their work unless there be available some cheap and easy method of getting back to it." The Tramway Company, in consultation with the Corporation, has submitted to Government a programme of extensions: I express the common wish in praying for speedy sanction.

17. In the introduction to the report of 1914-15<sup>11</sup> I alluded to an increasing spirit of co-operation apparent in the attitude of the people towards our anti-malarial campaign. It is gratifying to record that this spirit has waxed, not waned. The drainage of the Puraswakkam swamps has been designed by Mr. Barker, and part of the design executed with marked success. A large storm-water drain, designed by the same officer to relieve the constant flooding and soaking of North Triplicane, though not yet absolutely complete has proved of much service in dealing with such rain as we have had. Mr. Barker has now left our service to become Professor of Civil Engineering at the Madras Engineering College; I am sure that all Commissioners will join me in hoping that he will impart his own thoroughness and energy to his pupils. In dealing with the subject of Malaria I may record the accomplishment of what the Corporation set out to do at the old Sewage Farm. The situation of the farm may not be ideal, but pending provision of a new and better farm outside the northern boundary of the city it was but obvious common sense to set in order that which we had. *Chappar* has been entirely eradicated; the old pits in which sewage and rain-water stagnated and bred mosquitoes have disappeared, the flow of sewage over the farm has been regulated and controlled. For all this much credit is due to Mr. Nicholas, who has lavished on this hitherto unpromising domain the enthusiasm of Zola's hero reclaiming *Chantebled*.



18. If I make no detailed mention of the Works Department, it is not from any desire to belittle the Corporation Engineer or his staff. Finance and sanitation lend themselves to theorising; roads, bridges, buildings, are concrete facts which speak for themselves. The department has worked with solid energy through the year, and its works are apparent to all who care to look at them. One portion of the building programme, I regret to say, has been dropped, temporarily at least. The Corporation has been unable to carry out the provision of two primary schools for each division of the city. But when money is scarce, and the claims of sanitation and primary education come into conflict, it is, I think, but right and proper that sanitation should take precedence. It is of little use to educate a child while neglecting what best effort may be made to keep him alive; there are many agencies which provide the three R's, but the responsibility for the public health is primarily on the Corporation.

19. A suggestion made by me last year of several small Committees to deal with special subjects has fructified. A most helpful Committee, to which I have already referred, drew up the most accurate revised estimate of income and expenditure that the city has yet had, and got it ready several months earlier than the Executive unaided had hitherto done. Committees aided the consideration of conservancy, office establishment, drainage bye-laws. These Committees did not, I am glad to say, embody cast-iron recommendations in formal reports; their great value, in my opinion, consisted in conversational suggestions of new methods which the Executive could test and follow or recede from in the light of experience gained.

20. I feel it the most pleasant of my duties to record again my gratitude for the assistance and co-operation of the Commissioners. Not that our proceedings throughout the year bore any great resemblance to those of a Mutual Admiration Society; what we said at times to each other remains on record, what at times we must have thought is in mercy hidden. But though I can recall many an honest and fairly heated difference of opinion, I have no memory of personal ill-feeling on either side.

CORPORATION OF MADRAS. }

12th August 1916. }

J. CHARTRES. MOLONY.

*President.*



# CORPORATION OF MADRAS.

Report of the President from 1st April 1915 to 31st March 1916.

## Changes in the Constitution of the Corporation.

1. *Elections.*—As required by Section 46 of the Madras City Municipal Act, 1904, the lists of persons qualified to be elected Municipal Commissioners and of those qualified to vote at such elections were revised with the result that 495 persons were registered as eligible for elections as Municipal Commissioners and 11,964 as eligible to vote against 501 and 12,648 respectively in the previous year. The percentage of persons qualified for election as Commissioners to the total literate (English) adult male population of the City was 1.3756 and that of persons qualified to vote to the total adult male population of the City, both literate and illiterate, was 7.6235.

2. Two elective seats fell vacant during the year of which one was owing to the expiry of the term of M.R.Ry. G. R. Audikesavalu Nayudu Garu, Commissioner for the 16th Division, and the other to the resignation of Major F. Clarence Smith, Commissioner for the 14th Division. The election of the 16th Division was contested. M.R.Ry. G. R. Audikesavalu Nayudu was elected. The number of persons who voted at this election was 72.03 per cent. of the total number of registered voters. In the 14th Division the ballot was dispensed with under Section 39 of the Madras City Municipal Act, 1904, and M.R.Ry. S. Venkataramasawmy Mudaliyar Avargal, was declared duly elected.

3. *Representatives of the Chamber of Commerce:*—Mr. A. J. Leech and Mr. J. W. Crusha, who were appointed on 7th April 1914 and 3rd February 1914, respectively, continued to hold office during the year. Mr. A. J. Powell, who was appointed on 9th June 1914, resigned his seat on the Corporation on 25th June 1915 and Mr. J. F. Simpson was appointed in his place on 10th August 1915.

4. *Representatives of the Trades Association:*—Mr. G. U. Cuddon, who was appointed on 19th May 1914, resigned his seat on the Corporation on 6th May 1915 and Mr. W. M. Wales was appointed in his place on 6th July 1915. Mr. C. J. Higgs, who was appointed on 18th August 1914, resigned his seat on the Corporation on 27th May 1915 and Mr. C. H. Higginbotham was appointed as his successor on 6th July 1915. Mr. D. Morrison, who was appointed on 15th September 1914, continued to hold office during the year.

5. *Representatives of the Harbour Trust Board:*—Khan Bahadur Muhammad Abdul Kuddus Badsha Sahib Bahadur, who was appointed on 2nd March 1915, continued to hold office during the year.



6. *Representatives of the Madras and Southern Mahratta Railway Company*:—Mr. J. F. Fawcett, who was appointed on 15th December 1914, continued to hold office during the year.

7. *Nominations by Government*:—The Hon'ble Dr. T. M. Nair, Yaqub Hasan Sahib Bahadur, Mr. E. R. Osborne, Mr. H. A. Hart and Major R. Bryson continued to hold office during the year. The Hon'ble Mr. J. O. Robinson resigned his seat on the Corporation on 18th February 1915 and Mr. Gordon Fraser was appointed in his place, on 20th April 1915. The term of office of Lt.-Col. C. Donovan, who was appointed on 30th April 1912, expired on 30th April 1915, but he was reappointed on 18th May 1915. M.R.Ry. Dewan Bahadur M. Audinarayana Ayya Garu, who was appointed on 2nd February 1915, died on 17th March 1916 and the Hon'ble Mr. J. O. Robinson was appointed in his stead on 4th April 1916.

#### Executive Officers.

8. I continued to hold the office of President during the year. Dr. W. R. Macdonald continued to hold the office of Health Officer up to 11th October 1915, when he resigned his office and M.R.Ry. K. Raghavendra Rao Garu, B.A., M.B. & C.M., who was appointed as Special Malaria Officer from 1st January 1915, was appointed to perform the combined duties of Special Malaria Officer and Health Officer of the Madras Corporation from 11th October 1915. M.R.Ry. Rao Bahadur T. Vijayaraghavacharya Avargal, M.A., continued to be the Revenue Officer except from 19th May 1915 to 29th June 1915, when he was absent on privilege leave and M.R.Ry. S. Dandapani Aiyar Avargal was appointed to act for him. Mr. J. R. Coats continued to hold the office of Engineer except for the period from 4th June 1915 to 14th November 1915, when he was absent on combined privilege leave and leave on medical certificate for five months and eleven days and M.R.Ry. E. R. Srinivasachariar Avargal acted for him. Mr. J. W. Madeley continued to be the Special Engineer for the design and execution of the special water and drainage works except for the period from 5th to 28th May 1915, when he was absent on privilege leave.

#### Meetings.

9. During the year the Corporation held 19 meetings of which 12 were general meetings, two adjourned general meetings, three special meetings and two adjourned special meetings. The average number of commissioners including the President, present at each meeting, was 27 against 26 in the previous year. The percentage of attendance to the sanctioned strength was 79.4 among Divisional Commissioners, 62.5 among Institutional Commissioners and 63.8 among Nominated Commissioners as against 71.9, 63.0 and 64.7, respectively, in the previous year.

10. The Standing Committee met 26 times

#### Committees and Sub-Committees.

11. (1) The Committee appointed by the Corporation on 21st August 1912, to consider and report on rule 15 of the Building Regulations, requiring the



provision of one-third open space in the case of certain buildings, recommended the adoption of revised rules drafted by the Engineer. These rules were approved by the Corporation on 2nd February 1915, with some modifications. The Government, to whom the rules as modified were submitted for sanction, communicated the remarks of the Municipal Commissioner and Engineer of the Bombay Corporation, on the working of similar rules in that City, and asked the Corporation of Madras to reconsider the whole matter in the light of the experience of Bombay (Government Memorandum No. 3347-1M., dated 9th July 1915). The question was not disposed of pending the results of the competition instituted under His Excellency's auspices for designs for model dwelling houses in Madras.

(2) A Committee consisting of the President, Mr. J. O. Robinson and M.R.Rys. Rao Bahadur P. Theagaraya Chetti Garu, K. N. Aiya Ayyar Avargal and P. M. Sivangnana Mudaliyar Avargal, was appointed by the Corporation on 15th December 1914, to meet the representatives of the Tramway Company and the officers appointed by Government, to discuss the question of the extension of tram lines in the City for the convenience of those desirous of residing in suburbs outside the City. The Committee reported that, in their opinion, the extension of the system might proceed as follows :—

Replacement of the Chintadripet section by a line running down Body Guard Road, then

- (i) A line running from Thousand Lights to the Law College.
- (ii) A line running north in the direction of Tiruvotthiyur.
- (iii) Extension of the Mylapore line to the Adyar Tollgate.
- (iv) Extension along Poonamallee Road.
- (v) Extension towards Perambur.

The report was adopted by the Corporation and forwarded to Government. But the Government considered that the proposed lines from the Law College to the Thousand Lights and from the Vizianagram Fountain through the Chepauk Park would detract from the amenities of pleasant parts of the City without materially relieving congestion or bringing in much revenue and they requested the Corporation to decide the order in which the other lines referred to in the Committee's report should be taken up and submit proposals for their construction with a draft order under Section 6 of the Indian Tramways Act, 1886, (*vide* G.O. No. 571-M., dated 12th April 1915). The Government have been requested to state whether among the "other lines" referred to therein, the replacement of the Chintadripet section by a line running down Body Guard Road is included. The orders of Government on the reference are awaited.

(3) A Committee consisting of the President, M.R.Ry. P. M. Sivangnana Mudaliyar Avargal and M.R.Ry. K. N. Ayya Ayyar Avargal was appointed by the Corporation on 15th December 1914, to meet a conference consisting of Mr. James Gray, the Managing Director of the Madras Electric Tramways, Ltd., and officers appointed by Government, and discuss the question of the realignment of the tramway line in Chintadripet. The Committee recommended the



proposal that a new line should be laid along the Body Guard Road and Mount Road. The Corporation approved of this proposal and in Memorandum No. 5948-3 M., dated 23rd January 1915, the Government requested the Corporation to submit in consultation with the Tramway authorities detailed proposals for the alignment of this new line. The plans received from the Tramway Company were forwarded by the Corporation to Government with the recommendations that the Government House Bridge and Penitentiary Bridge should be widened sufficiently to admit of a double track and foot-paths on each side of the road, that there should be no centre posts, that all the lines should be in the centre of the road, and that steps should be taken to prevent the protruding of the rails above the surface of the road. The orders of Government are awaited.

h' 11 (4) His Excellency the Governor of Madras offered Rs. 1,500 to provide prizes for a competition for the best design for the construction of model dwelling houses for the poor and Mr. Madeley also offered Rs. 100 for the best design of water-supply and drainage for certain classes of houses. "The conditions for the competition were duly framed and the competition was advertised on 1st October 1915. The designs received from the competitors were submitted to a Committee consisting of the President, M.R.Ry. Rao Bahadur P. Tyagaraya Chetti Garu and the Hon'ble Dr. T.M. Nair with Rao Sahib Dr. U. Rama Rau and Messrs. H. V. Lanchester, J. R. Coats and J. W. Madeley as advisers, and the results were declared and published. The prizes were then distributed to the winners of the competition.

(5) A Sub-Committee consisting of the President, Mr. C. J. Higgs and M.R.Ry. K. N. Ayya Aiyar Avargal was appointed by the Standing Committee on 12th March 1915, to consider and report the powers which should be delegated to the Special Engineer and his Assistants. The Sub-Committee recommended the delegation of some powers to the Special Engineer, but reported that it was unnecessary to grant any special powers to his Assistants. The recommendations of the Sub-Committee were approved by the Standing Committee on 14th May 1915, and by the Corporation on 22nd June 1915; and the Government who were addressed on the subject approved the proposals of the Corporation to delegate to the Special Engineer the following powers:—

- (i) Powers to fix the headquarters of his assistants;
- (ii) powers to sanction estimates up to a limit of Rs. 1,000 for the purchase or the repairs of tools and plant;
- (iii) power to issue orders for the disposal of unserviceable or surplus stores.

They also stated that the delegation of the other powers suggested by the Corporation would be considered in connection with the amendment of the Madras City Municipal Act of 1904. (*Vide* G.O. No. 1302-M., dated 19th August 1915).

6 (6) The Special Engineer proposed that an unmetered service be laid down as comprising one single tap placed in an approved position visible from the road and that a provision of Rs. 20,000 be made in the Budget for 1916-17 for the purchase and fixing at the cost of the owners of meters to be applied to first class



service, new and existing. The Standing Committee recommended that the Special Engineer's proposal be approved, every house being allowed one tap free and houses with more than one tap being metered and that a provision of Rs. 20,000 required in connection with the fixing of meters at the cost of the owners be made in the Budget for 1916-17. A Committee consisting of the President, M.R.Ry. Rao Bahadur P. Tyagaraya Chetti Garu, M.R.Ry. G. A. Natesan Avargal, and M.R.Ry. K. N. Ayya Aiyar Avargal was appointed by the Corporation to select typical houses in the various divisions where meters at the cost of the Corporation might be fixed and to report on the amount of water spent usefully and of water wasted. The report of the Committee is under preparation. The Corporation approved also of the proposal to make a provision of Rs. 20,000 in the Budget for 1916-17 for fixing meters to houses at the cost of the owners.

(7) A sub-committee consisting of the President, M.R.Ry. G. A. Natesan Avargal and M.R.Ry. K. N. Ayya Aiyar Avargal, was appointed by the Standing Committee at their meeting held on 9th July 1915, to report on the alterations in the draft drainage by-laws proposed by the Special Engineer. The sub-committee recommended that the alterations be approved, subject to certain modifications. This recommendation of the sub-committee was approved by the Standing Committee and has since been tentatively sanctioned by the Corporation.

(8) A committee consisting of the President, M.R.Ry. Rao Bahadur P. Tyagaraya Chetti Garu, M.R. Ry. G. A. Natesan Avargal, M.R.Ry. K. C. Desikachariyar Avargal, The Hon'ble Dr. T. M. Nair, M.R.Ry. C. P. Ramaswami Aiyar Avargal, Mr. J. F. Simpson and Mr. J. W. Crusha was appointed by the Corporation at their meeting held on 8th February 1916, for considering the Engineer's report on conservancy. The report is still under consideration.

### Tramways.

12. The stage which the correspondence regarding the removal of the line in Chintadripet has reached is mentioned in paragraph 11 (3). The land required for the improvement of the corner of Choolai Bazaar Road was acquired and double track in that road is being laid by the Madras Electric Tramway Company. The Corporation sanctioned the proposal of the Madras Electric Tramway Company, Limited, to lay a double tramway track in Elephant Gate Road. The Corporation also sanctioned the proposal of the Tramway Company to lay a double track in Wallajah Road subject to the condition that the Tramway Company undertook at its own expense to support and, if necessary, to divert the cables, feeder boxes, standards, etc. for the construction of the North Triplicane Storm Water Drain along the south side of Wallajah Road from the east side of Triplicane High Road to the junction of Harris Road and Mount Road.

### Resolutions of the Corporation.

13. The following are among the more important resolutions passed by the Corporation during the year :—

(1) *Resolution of 27th April 1915.*—The Corporation passed the following resolution :—

“That the Corporation is of opinion that it is highly desirable that the notices recently issued by the President under section 293 requiring the



occupiers of houses to collect and keep at or near the entrances to their premises all rubbish and offensive matter accumulated therein should be withdrawn and the Corporation is further of opinion that the President should so regulate the provision of dust-bins in congested areas, that there may be available one dust-bin at least for every group of six houses, the same being shifted from place to place periodically."

(2) *Resolution of 21st September 1915.*—In connection with the proposal to train midwives in the Rajah Sir Ramaswami Mudaliyar Lying-in-Hospital the Corporation resolved that midwives be trained under the following conditions :—

- (i) that the monthly teaching fees and stipends be paid to midwives under training,
- (ii) that no bond need be taken and that no stipend need be paid after training, and
- (iii) that the Corporation leave it to the Superintendent of the Raja Sir Ramaswami Mudaliyar Lying-in-Hospital to apportion the number taken in for the city and for moffussil.

(3) *Resolution of 21st September 1915.*—The Corporation recommended that by-law No. 229 (1) be amended by the insertion of the words "and at the time appointed by the Health Officer" after the word "Memorandum" in the by-law and the hours to be fixed for verification be from 7 to 8 A.M. and from 8 to 9 A.M. The by law as amended by the Corporation was confirmed and sanctioned by Government (*Vide* G.O. No. 210-M., dated 31st January 1916).

(4) *Resolution of 21st September 1915.*—The Corporation passed the following resolution :—

"That the Government be requested to revise the scale of track rent for all Tramway lines, old and new, within the Madras municipal limits on a uniform scale of Rs. 1,000 a mile per year for single lines and Rs. 1,500 a mile per year for double lines."

The Government to whom this resolution was communicated stated that the rates of track rent could not be modified except by a further Tramway order passed under the Indian Tramways Act on the application of and with the consent of the Madras Electric Tramway Company. (*Vide* G. O. No. 520-M., dated 16th March 1916).

(5) *Resolution of 21st September 1915.*—The Corporation passed the following resolution unanimously :—

"That with a view to give an opportunity to the Corporation to express its views on the proposals of the Government of Madras, to amend or alter the Madras City Municipal Act, before the Government of India gives its sanction for the introduction of the proposed measure in the Madras Legislative Council, the Government of Madras be requested to forward the proposed measure for consideration by this Corporation."

The resolution was communicated to Government.



(6) *Resolution of 25th September 1915.*—The Corporation passed the following resolution :—

“That the President's Administration Report and the Health Officer's Report for 1914-15, be adopted and forwarded to Government with the remark that the Commissioners are of opinion that the Government and the Executive of the Corporation should set an example to the ratepayers and citizens of Madras by themselves conforming to all Laws and Regulations affecting the health and appearance of the city to which laws they compel the public to conform on pain of penalties under the Municipal Act.”

The resolution was communicated to Government.

(7) *Resolution of 19th October 1915.*—The Hon'ble Dr. T. M. Nair moved the following resolution :—

“As it is becoming more and more evident that the work of the Health Department, especially in the direction of ensuring pure water and food-supply for the city cannot be satisfactorily carried out without a full time Corporation Chemical Analyst, the Corporation decides to appoint an Analyst forthwith, on a salary of Rs. 350—500 per month.”

He pointed out that the salary of the Analyst should be Rs. 300—500 instead of Rs. 350—500, as stated in the resolution. The Corporation resolved that the consideration of the question be taken up along with the report of the Engineer on the conservancy system of the city which is under the consideration of the Corporation.

(8) *Resolution of 16th November 1915.*—With reference to G.O., No. 1682-M., Mis., dated 25th October 1915, transferring to the Corporation of Madras for consideration Dr. K. T. Mathew's petition, dated 26th August 1915, requesting that he might be granted pension for a period of over 16 years of his service under the Corporation as Senior Assistant Health Officer, the Corporation passed the following resolution :—

“Having regard to the long and faithful services rendered by Dr. K. T. Mathew, the Corporation are willing to give the pension, if the rules permit, and they recommend the application for favourable consideration.”

The Government to whom the resolution was communicated stated as follows (*Vide* G.O., No. 214-M., Mis., dated 31st January 1916) :—

“Under Civil Service Regulations, no pension would ordinarily be permissible in such a case, but under Article 924, the Local Government might, with the approval of the Secretary of State, grant a pension or gratuity as a special case.

“In applying the Civil Service Regulations to their subordinates in the rule above referred to, the Corporation have substituted the Standing Committee for the Local Government and the Government of Madras for the Government of India. They have, however, appointed no substitute for the Secretary of State. If it is their desire that the Government of Madras should perform the functions



assigned to the Secretary of State under the Civil Service Regulations, they are requested to submit an amendment of the rule in that sense.

"On receipt of sanction to such an amendment they will be requested to make specific proposals in regard to the grant of a pension or gratuity to Dr. Mathew."

The Corporation before whom the matter was placed agreed to the proposal that the Government of Madras should perform the functions assigned to the Secretary of State under the Civil Service Regulations in respect of the grant of pensions in special cases. A draft amendment of the rule made by the Corporation of Madras with the previous sanction of the Government under the provisions of section 64 (c) of the Madras City Municipal Act, 1904, as approved by the Corporation at their meeting held on 29th March 1916, has been forwarded to Government for their sanction. Their orders are awaited.

(9) *Resolution of 29th March 1916.*—In G.O., No. 422 M., dated 28th February 1916, the Government, while making a grant of four lakhs in 1915-16 towards the special water and drainage works on which the Corporation is engaged during 1915-16 and 1916-17, stated that the Corporation should not expect any further help from Government during 1916-17, and that the funds required during 1916-17 could be provided for by increasing the lighting tax and by revising the assessment on houses and lands and requested the submission of a clear statement of the liabilities of the Corporation both capital and recurring and of the expenditure necessary for completing the works in hand and showing how the necessary funds for meeting this expenditure were proposed to be raised. The Standing Committee recommended that the President be requested to inform Government in reply to the G.O. read above that, under the present abnormal circumstances, the Corporation found themselves unable to finance the Special Works Department in the coming year as the money market was practically closed to them, that, in these circumstances, they had to request the Government to render them such assistance as would enable them to carry on the Special Works Department, that the Corporation had no desire to shirk their responsibility in financing this department and were willing to contribute their share of the expenditure when adequate sources of taxation were rendered available to them and when the money market resumed its normal condition. The Corporation requested the President to reply to Government with some modifications in the form suggested by the Standing Committee. The Government have accordingly been addressed on the subject.

#### Revenue Administration.

14. The work of the Revenue Department continued to be satisfactory and there was a further increase in the revenues of the Corporation during the year under report. The current revenues under Tax on Arts, combined property taxes and the tax on vehicles rose by Rs. 46,564-4-4. There was a fall of Rs. 2,114-8-0 under tax on animals due to the fall in the number of horses kept in the City. Thus, the total net increase in the current revenues under the prin-



cipal taxes amounted to Rs. 44,449-12-4 against Rs. 1,11,186-9-6 in 1914-15, the marked increase in the latter being due

- (i) to the realisation of enhanced taxes by Rs. 32,138-4-2 in Government Civil Buildings which were under appeal and
- (ii) to the increase gained by general revision of assessments in 5 Divisions by Rs. 39,306-6-1.

No general revision was undertaken in any of the divisions in the year under report.

The tax on Government military buildings was paid according to the old assessment and the enhanced tax thereon as settled at the end of the year has to be realised from Government.

The increase under current revenues would have amounted to Rs. 49,379-14-10, if this had come in before the close of the year.

The policy of restricting the issue of warrants has been steadily carried out, the number of warrants issued in the year under report being only 2,191 against 10,588 in 1914-15. With reference to a resolution moved in the Corporation, a sum of Rs. 912-12-10, including Rs. 35-11-6 under arrear, was remitted under Section 117 of the Act, the owners having become too poor to pay the taxes on account of the adverse conditions produced by the War.

### **Finance.**

#### *Capital Account.*

15. The year opened with a balance of Rs. 8,01,848-14-3. The receipts for the year amounted to Rs. 7,48,258-6-4, which includes a free grant of Rs. 7,00,000 from Government for the improvement of water-supply and drainage, an interest of Rs. 23,233-9-9 on investment of the surplus fund and recovery of Rs. 25,024-12-7 from advances made in the previous years. The total receipts, including the opening balance, were Rs. 15,50,107-4-7. The total expenditure was Rs. 14,07,630-15-1 and the balance left at the close of the year was Rs. 1,42,476-5-6.

#### *Revenue Account.*

16. The year under report opened with a balance of Rs. 10,48,476-3-8 against Rs. 8,34,126-3-10 in the previous year. The Corporation received special grants amounting to Rs. 20,607 from Government for the acquisition of lands for washermen settlement (Rs. 10,384) and for the improvement of Kelly's drain (Rs. 10,223). The revenue from all sources, inclusive of the Government grant, amounted to Rs. 28,60,036-3-1 against Rs. 33,11,397-4-10 in 1914-15. The total receipts for the year including the opening balance were Rs. 39,08,512-6-9 against Rs. 41,45,523-8-8 in the preceding year. The net income of the year, after deducting the opening balance and the special Government grants, was Rs. 28,39,429-3-1 against Rs. 28,36,397-4-10 in the previous year, thus showing an increase of Rs. 3,031-14-3. Towards the net income of Rs. 28,39,429-3-1 specified above, the



Municipal taxes contributed Rs. 20,24,646-15-6 and Municipal fees and miscellaneous receipts Rs. 8,14,782-3-7 against Rs. 20,23,650-1-3 and Rs. 8,12,747-3-7 respectively in 1914-15. The total expenditure of the year was Rs. 31,23,088-3-2 against an estimate of Rs. 33,13,830 and against the actuals of Rs. 30,97,047-5-0 in the previous year. The balance remaining at the close of the year was Rs. 7,85,424-3-7.

### **Tax on Professions, Arts, Trades and Callings under Section 120.**

#### *Current.*

17. The gross current demand under this head of taxation is Rs. 1,71,625 against Rs. 1,67,953-2-11 in the previous year. After deducting the subsequent remissions and reductions on appeal, the net demand amounted to Rs. 1,71,612-8-0 against Rs. 1,67,903-2-11 for the preceding year or Rs. 3,709-5-1 in excess of that of last year. The number of items of assessment is 13,456 against 13,587 of last year. The increase is due to "War profits" made in certain trades.

18. *Appendix 1, Statement IV C* shows the assessments for the year under report classified under the several classes of the profession tax schedule and compares them with those of 1914-15. During the year, 12 objections to the assessments were received as against 34 in the previous year. These were disposed of at three sittings of the Appeal Board, constituted under Section 172 of the Act, with the result that in nine cases, including two cases relating to the arrears of 1914-15, the assessments were confirmed, in two cases the assessments were reduced, and in one case the assessment was cancelled. No second appeals were preferred to the Magistrate.

Suits for the recovery of Rs. 17-8-0 were filed in the Court of Small Causes with the result that in one case money was recovered on a decree within the year, in the second case a decree has been obtained and is under execution and the third case was withdrawn, the amount having been recovered before the date of hearing.

19. The current collection of the year amounted to Rs. 1,70,282, inclusive of Rs. 10 received in advance (in 1914-15) for the 1st half-year of 1915-16, and exclusive of Rs. 5 received in advance in the year under report for the 1st half-year of 1916-17 against an estimate of Rs. 1,61,900 and against Rs. 1,66,325-10-11 actually collected in the previous year. The balance left uncollected at the end of the year was Rs. 1,330-8-0 inclusive of Rs. 122-8-0 being the profession tax due on Military officers paid by Government after the close of the year, against Rs. 1,587-8-0 in the previous year. Out of this balance, Rs. 778 has since been collected, leaving Rs. 552-8-0 for further recovery and adjustment. The percentage of collections to the demand was 99.22 against 99.05 in 1914-15. The incidence of taxation per head of the population was Re. 0-5-4 against Re. 0-5-2 in the previous year.

#### *Arrear.*

20. The arrear demand outstanding at the beginning of the year was Rs. 1,637-8-0, which by subsequent assessments rose to Rs. 2,302-8-0 as against



Rs. 1,905-8-0 in 1914-15. This demand was reduced to the extent of Rs. 90 by remissions and reduction on appeal and the net arrear demand amounted to Rs. 2,212-8-0. Of this Rs. 2,159-8-4 was collected during the year, and Rs. 7-15-8 was written off as irrecoverable, leaving Rs. 45-0-0 uncollected at the close of the year. Out of this balance, Rs. 2-8-0 has since been collected, and a claim for Rs. 37-8-0 registered in the office of the Official Assignee in 1912-13, is still pending payment, and Rs. 5 is covered by a decree of court. The percentage of collections to the demand was 97.60 against 96.86 in the previous year.

### **House, Water and Drainage and Lighting Taxes Combined.**

#### *Current.*

21. The gross current demand under the consolidated rates levied on buildings and lands amounted to Rs. 16,97,340-13-3 against Rs. 16,53,135-15-2 in the preceding year. The gross increase of Rs. 45,806-10-4 over the net demand of the previous year was due to revaluations as per annual and supplemental surveys made during the year as particularised below :—

(1) Rs. 18,824-3-2 to the cursory revision of assessments in all divisions of which Rs. 13,544-1-10 represents the increase by assessments imposed on new buildings ; and Rs. 5 280-1-4 represents the increase by enhancements of assessments on buildings on account of alterations and improvements.

(2) Rs. 26,982-7-2 to the enhancement of assessments made in 1914-15, which had effect only for one half-year of that year against a full year in the year under report. With reference to the wishes of the Corporation, no general revision was undertaken.

22. During the year, 1,367 notices were issued under section 137 on account of enhancement of valuations and assessments newly imposed against 7,573 in 1914-15. seventy-four appeals were preferred against these enhancements and assessments and 89 against the standing assessments, making a total of 163 appeals against 437 in the previous year. These appeals were heard at three sittings of the Appeal Board constituted under section 172 of the Act, with the result that in 42 cases, the assessments were reduced, and in 121 cases, the assessments were confirmed. Nine appeals were preferred to the Presidency Magistrates under section 175 of the Act against the decision of the Appeal Board ; in one case, a compromise was effected and in the remaining eight cases, the appeals were dismissed. The total reduction thus made aggregated to Rs. 564-12-8.

23. The net increase after deducting the reductions made by the Appeal Board was Rs. 45,241-13-8 against Rs. 82,150-2 1 in the preceding year, and the net demand amounted to Rs. 16,96,776-0-7 against Rs. 16,51,534-2-11 in the previous year.

The net current collections amounted to Rs. 16,27,644-0-10 against Rs. 15,93,403-4-5 in 1914-15. This figure includes a sum of Rs. 3,961-7-10 paid in advance in 1914-15 for the year under report and excludes a sum of Rs. 6,829-3-0 received in advance in the year under report for the ensuing year, as well as a



sum of Rs. 192-0-4 which remained undisbursed at the end of the year out of the amounts refundable to parties in consequence of the reduction of assessments allowed on appeal. A sum of Rs. 18,768-2-5 was remitted on account of vacancy, under section 142 of the Act and other causes against Rs. 14,647-6-7 in 1914-15 and Rs. 850-5-10 was remitted under section 117 of the Act as per resolution of the Corporation, on account of adverse conditions produced by the war. The balance left outstanding at the end of the year (after excluding Rs. 4,930-2-6 due by Government in respect of Military buildings under appeal) was Rs. 44,583-5-0 against Rs. 34,949-9-7 at the end of 1914-15.

The percentage of collections to the demand (exclusive of the sum due by Government Military Department) was 96·21 against 96·90 in the previous year. Throughout the year, the practice inaugurated in 1914-15 was continued and the bulk of the collections was made without issue of warrants, only 1,955 warrants having been issued as against 9,155 in the previous year. The incidence of taxation per head of the population was Rs. 3-4-4 against Rs. 3-2 11.

24. The total current demand, collection remission and balance under the combined property taxes, as compared with the corresponding figures for the previous two years, are exhibited in Appendix I, Table No. 1.

#### *Arrear.*

25. The arrear balance at the beginning of the year was Rs. 57,700-12-10 which by subsequent amendments was reduced to Rs. 50,963-14-2. Of this demand, a sum of Rs. 32,789-14-7 was realised during the year and Rs. 1,800-14-9 was remitted on account of vacancy and other causes, Rs. 35-11-6 was remitted under section 117 of the Act on account of adverse conditions produced by the war and Rs. 10-3-4 was written off as irrecoverable. The balance left outstanding at the end of the year was Rs. 16,327-2-0 which includes Rs. 14,790-7-6 due by Government in respect of Military buildings under appeal. The percentage of collections to the demand (exclusive of the sum due by Government, Military Department and the amount covered by decrees) was 91·30 against 97·42 in 1914-15.

26. The total demand, collection, remission and balance under arrears, as compared with the corresponding figures for the previous two years, are shown in Appendix I, Table No. 2.

27. Out of the total balance of Rs. 46,119-15-6 outstanding at the end of the year, *viz.*, Rs. 44,583-5-0 under current and Rs. 1,536-10-6 under arrear (exclusive of the sum due on Government Military buildings under appeal, *viz.*, Rs. 19,720-10-0) a sum of Rs. 40,213-1-4 has been collected and adjusted up to the end of June 1916 leaving a sum of Rs. 5,906-14-2 for recovery and adjustment in the course of the year.

28. The details relating to each of the combined property taxes dealt with above, *viz.*, house, land, water and drainage and lighting taxes are exhibited separately in Appendix, I, Statements IV A and B.



### **Tax on Vehicles with Springs and on Animals under Section 150.**

#### *Current.*

29. The net demand under this tax amounted to Rs. 1,12,962-12-0 against Rs. 1,12,194-14-0 in the previous year.

30. Appendix I, Table No. 3, compares the number of vehicles and animals assessed for the year 1915-16 under the several classes of Schedule VI of the Act, with the corresponding figures for the previous year.

31. The current collections inclusive of Rs. 3,573-4-0 received in advance for the ensuing year, amounted to Rs. 1,08,710-10-0. The net collections for the year were thus Rs. 1,05,137-6-0 which with Rs. 2,356 prepaid in the previous year on account of taxes due for the year under report amounted to Rs. 1,07,493-6-0 against an estimate of Rs. 1,01,400. Rs. 24 was remitted under section 117. The balance left uncollected at the close of the year was Rs. 4,545-6-0 and of this sum Rs. 1,738-13-4 has since been collected and Rs. 252-12-0 has been cancelled as erroneous demand leaving Rs. 2,553-12-8 for further recovery and adjustment. The percentage of collections to the demand was 96.00 for vehicles and 95.76 for animals against 97.63 and 97.40 respectively in the previous year. The incidence of taxation per head of the population was Re. 0-2-4 for vehicles  
Re. 0-1-1 for animals the corresponding figures for the previous year being Re. 0-2-4 for vehicles.  
Re. 0-1-2 for animals.

#### *Arrear.*

32. The arrear demand at the beginning of the year both under vehicles and animals was Rs. 2,844 which by subsequent amendments and additions rose to Rs. 3,244-4-0. Of this sum, assessments amounting to Rs. 843-2-0 were found on investigation to be erroneous and were cancelled and the actual demand stood at Rs. 2,401-2-0. Of this amount Rs. 2,319-2-0 was collected leaving a balance of Rs. 82 at the close of the year. The percentage of collections to the demand was 96.82 for vehicles and 96.16 for animals against 93.47 and 94.98, respectively, in the previous year.

### **Tax on Carts and other Vehicles without Springs under Section 153.**

#### *Current.*

33. The demand under this tax amounted to Rs. 32,115 against Rs. 32,016 in the previous year. The number of carts voluntarily offered for registration was 7,964 against 7,547 in the previous year, and the number seized under section 162 for non-registration fell from 3,125 to 2,741. Of the 2,741 carts seized, 2,714 were released on payment and six were sold by public auction in default of payment, leaving 21 carts for disposal at the close of the year.

34. The current collections inclusive of Rs. 1,683 received in advance for the ensuing year amounted to Rs. 32,101-14-9. The net collections excluding the advance payment were Rs. 30,418-14-9 which with Rs. 1,629 collected in the



previous year towards the demand of the year under report amounted to Rs. 32,047-14-9 against Rs. 31,982-9-5 in 1914-15. A sum of Rs. 3-4-3 was written off leaving a balance of Rs. 63-13-0 at the close of the year. Out of this sum, Re. 0-13-0 represents the difference between the taxes payable and the amount realised by sale in the case of five out of the six carts referred to above and Rs. 63 are the taxes on 21 carts seized and awaiting disposal at the close of the year. The percentage of collections to the demand was 99.79 against 99.89 in 1914-15. The incidence of taxation per head of the population was Re. 0-1-0 as in the previous year.

*Arrear.*

35. The arrear demand at the beginning of the year was Rs. 36-6-7 which by subsequent amendments rose to Rs. 75-6-7. Of this sum Rs. 65-10-0 was collected and Rs. 1-10-3 was written off leaving a balance of Rs. 8-2-4 being the tax on two carts seized and awaiting disposal at the close of the year *plus* the difference between the taxes payable and the amount realised by sale of four carts.

**Tolls on Vehicles and Animals entering Municipal Limits.**

36. The right of collecting tolls for the year under report was put up to public auction and sold for Rs. 44,700 against Rs. 46,300 in the previous year.

The total amount recovered during the year amounted to Rs. 45,519-7-6 which includes interest paid for overdue instalments.

The incidence of tolls per head of the population was Re. 0-1-3.

**Revenue derived from Municipal Property and Powers apart from Taxation.**

*Rent of Lands and Buildings.*

*Current.*

37. The demand under this head for the year was Rs. 37,254-0-4 against Rs. 31,936-4-11 in the preceding year. The increase was partly due to the rents realised from the properties in Suparigunta Paracheri, 17th Division and from Anglo-Indian dwellings and other houses and partly to the leasing of more lands during the year. The collections amounted to Rs. 35,369-5-6 against Rs. 30,805-4-10 in 1914-15. The amount shown as collected excludes a sum of Rs. 938-12-9 being 50 per cent. of the rent collected from certain lessees on Wall Tax and Basin Bridge Roads which was paid to Government under G.Os. Nos. 32 and 878, Revenue, dated 6th January 1902 and 22nd August 1903, respectively. The balance outstanding at the end of the year was Rs. 1,884-10-10 of which a sum of Rs. 1,326-11-0 has since been collected. The percentage of collections to the demand was 94.95 against 96.46 in 1914-15.

*Arrear.*

38. The arrear outstanding at the commencement of the year was Rs. 1,208-15-0, which by subsequent assessments rose to Rs. 1,240-15-0. Of this



sum, Rs. 704-12-8 was collected and Rs. 115-10-0 was remitted, leaving a balance of Rs. 420-8-4 at the close of the year for realisation.

The percentage of collections to the demand was 56·81 against 90·23 in the preceding year.

*Payment for Occupation of Municipal Lands under Section 408.*

*Current.*

39. The demand under encroachments amounted to Rs. 4,527-0-0 against Rs. 5,112-12-0 in the previous year. The collections from trash-sellers amounted to Rs. 805-12-6 against Rs. 1,055-5-0 in the preceding year. The fall under this head was again due to the stringent measures adopted by the Health Department on sanitary grounds against roadside vendors.

The total demand under the above two heads amounted to Rs. 5,332-12-6 against Rs. 6,168-1-0 in 1914-15, and of this amount a sum of Rs. 5,235-6-6 was collected leaving a balance of Rs. 97-6-0 uncollected at the end of the year against Rs. 71-3-0 in 1914-15. Of this balance, a sum of Rs. 29-8-0 has since been collected. The percentage of collections to the demand was 98·16 against 98·85 in the previous year.

*Arrear.*

40. The arrear outstanding at the beginning of the year was Rs. 77-5-0, which with supplemental charges, rose to Rs. 79-6-0. Of this sum, Rs. 69-4-0 was collected and Rs. 10-2-0 remitted.

41. <sup>11</sup> *Grass Farm—Tondiarpet.* The farm was worked departmentally, and the total receipts from all sources amounted to Rs. 38,209-2-9 against Rs. 37,438-1-1 in the previous year. There was on hand on the 31st March 1916, a stock of 50 tons and 1516 lbs. of hay, the value of which at Rs. 50 per ton amounted to Rs. 2,533-13-5, so that the total income from the farm for the year under review may be placed at Rs. 40,743. <sup>12</sup> Considering that motor cars have greatly reduced the number of horses in the City, the above results which give a revenue of about Rs. 425 per cawni may be taken as satisfactory.

The improvements to the farm were continued and completed during the year. These comprised the filling in of tanks, complete eradication of chappar and the reclamation of low ground. The entire farm has been brought under cultivation of hariali and it will be interesting to await the results of these improvements as there can be no doubt that the outturn in future years will be greatly increased. During the year there was a small curtailment of the farm by 8 grds. and 1,543 sq. ft. caused by erosion of the sea.

Owing to the discontinuance of cattle-grazing on the chappar portion of the farm before it had been eradicated and replanted with hariali, there has been constant trespass of cattle by nights and during the last year 525 head of cattle were seized and sent to the Police pound. In one case a cattle-grazer was fined



Rs. 100 with an alternative of three months rigorous imprisonment for trespass and mischief. The total irrigable area of the farm within the fencing is 95 caw. 20 grds. and 855 sq. ft.

The total expenditure on the maintenance of the farm amounted to Rs. 26,404-11-8. This sum does not include Rs. 86,182-2-11 spent on improvements for the three years ending 1915-16 from the Malaria grant which, under G. O, No. 1,708-M. Mis, dated 27th October 1915, has been ordered to be taken as a charge on the general revenues of the Corporation.

42. *Moore Market.* The income amounted to Rs. 19,447-10-6 against an estimate of Rs. 18,410.

The demand was fully collected within the year.

A decree was obtained during the year against Abdul Majid Khan, late contractor of the fowl stalls in the Moore Market, for the arrear demand of Rs. 1,210 and a sum of Rs. 225 in three monthly instalments of Rs. 75 each was realised through the Court during the year, leaving a balance of Rs. 985 for recovery. A sum of Rs. 75 has been realised.

43. *The New Guzili Bazaar.*—The collections amounted to Rs. 14,195-9-0 against an estimate of Rs. 14,000. The demand was realised within the year with the exception of annas four, which has since been recovered.

44. *Private Markets.*—A vegetable market was opened during the year in Muthialpet and the market in Venkatesa Naick Street, Tiruvateeswarenpet, was closed as it was kept in a very insanitary condition. A small market in Perambur High Road was also closed. There were 43 markets at the end of the year and the fees collected amounted to Rs. 3,750 against Rs. 3,700 in the previous year.

45. *License Fees on Import of Timber and Firewood.*—The gross collections under this head amounted to Rs. 1,88,104-2-2, which includes a sum of Rs. 3,969-7-6, relating to the previous year in the hands of the collecting agencies and paid in during the year under report and excludes Rs. 2,902-7-0, the fees levied and received by the collecting agencies for March 1916, but not remitted to this office till after the close of the year. The corresponding gross collections for 1914-15 amounted to Rs. 1,89,827-6-4. The fall in the gross collections is due to shortage in the imports of timber by sea as a consequence of the War, owing to dearth of vessels and increase in freight charges.

46. Refunds of fees on exports granted during the year amounted to Rs. 47,644-10-0 against Rs. 58,348-3-2 in the previous year. The net collections for the year stood at Rs. 1,40,459-8-2 against an estimate of Rs. 1,30,000-0-0 and against Rs. 1,31,479-3-2, the actuals of the previous year.

In addition to the refund of Rs. 47,644-10-0 paid from the current collections on account of timber exported from imports made during the year, a sum of Rs. 19,305-10-0 was also refunded from collections of previous years under the head of "Refund of other than current collections."



47. *Distrainment Fees.*—The distraint fees realised during the year amounted to Rs. 87-7-1 against an estimate of Rs. 150 and against Rs. 110-14-5 collected in the previous year. There were 188 distraints made in the year against 158 in the previous year. Only in 21 of these cases against 84 in the previous year, the distress had to be pushed on to the final stage of sale by auction. The number of warrants issued in the year was 2,257 as against 11,916 in the previous year.

48. *Fines under Municipal and other Acts.* The amount realised under this head amounted to Rs. 5,031-12-6 against an estimate of Rs. 8,000 and Rs. 5,615-3-6, the collections in the previous year.

49. *Fees for Licenses, Registration, etc.*—The fees collected under this head amounted to Rs. 67,754-8-0 against Rs. 65,181-4-0 in the previous year. Details will be found in Table No. 19. Appendix II.

As in the previous year, care was taken to see that sanitary conditions were enforced as required by the by-laws.

50. *Interest on Investments.*—A sum of Rs. 2,938-2-2 was realised as interest on the securities in favour of Raja Sir Ramaswami Mudaliyar Maternity Hospital. The interest derived on investments of the surplus funds of the Corporation amounted to Rs. 46,787-11-6 under the Revenue and Capital accounts put together against Rs. 73,442-11-11 in the previous year.

51. *Grants and Contributions.*—Contributions amounting to Rs. 7,60,957 as detailed under, were paid by Government during the year against Rs. 10,15,350 in 1914-15 :—

- (1) a contribution of Rs. 20,000 for the maintenance of the Mount and Poonamallee Roads ;
- (2) a contribution of Rs. 4,443 for the repair of the bridges over the Cooum and Buckingham Canal ;
- (3) a contribution of Rs. 2,000 towards the zoological collections in the People's Park ;
- (4) a contribution of Rs. 300 for the payment of batta to pregnant women in Raja Sir Ramaswami Mudaliyar Maternity Hospital ;
- (5) a compensation of Rs. 13,607 for withholding sanction for the issue of licenses by the Corporation for places used for the sale of spirituous and intoxicating liquors ;
- (6) a special grant of Rs. 7,00,000 for the improvement of water-supply and drainage of the City ;
- (7) a special grant of Rs. 10,384 for the acquisition of lands for washermen settlement, and
- (8) a special grant of Rs. 10,223 for the improvement of Kelly's drain.



*Payment for Water Supplied for Non-domestic Purposes.**Current.*

52. The demand under this head amounted to Rs. 1,43,882-13-2 against Rs. 1,39,250-10-0, which excludes a sum of Rs. 5,203-6-0 due by Government and South Indian Railway Company for supply of water to their buildings during the two months of the last quarter of the year, the bills for which amount could, under the existing arrangement with them, be issued only after the close of the year. The current collections came up to Rs. 1,28,257-3-2 against Rs. 1,37,640-2-0 in the preceding year and Rs. 15,625-10-0 were outstanding at the end of the year for the following reasons :—

- (1) a sum of Rs. 8,689 is due by the Buckingham and Carnatic Mills Companies payable under the terms of the existing contract only after the 30th September 1916 ;
- (2) a sum of Rs. 6,925 represents the amount of the bills for February issued on the 20th March, whose collection becomes due only in April.

Of this balance, Rs. 5,769-8-0 have since been collected.

The percentage of collections to the demand exclusive of item (1) above was 94·87 against 98·84 in the previous year.

*Arrear.*

53. The arrear outstanding at the beginning of the year was Rs. 1,663-7-6 which rose to Rs. 6,225-3-6 by supplemental charges made for the previous year and by bills issued against Government for the two months of the last quarter of the previous year, and the amount was fully collected.

**General Incidence of Taxation.**

54. The incidence of taxation per head of the population under all taxes including tolls was the same as that of 1914-15, viz., Rs. 3-14-5. Excluding tolls, the incidence was Rs. 3-13-0, as in the previous year.

**Advance Account.**

55. The amount outstanding at the beginning of the year was Rs. 1,69,487-15-7, of which permanent advances held by the several officers of the Corporation amounted to Rs. 93,085 and miscellaneous advances to Rs. 76,402-15-7. During the year permanent advances amounting to Rs. 84-4-3 and miscellaneous advances of Rs. 53,679-0-10 were adjusted and fresh advances were made to the extent of Rs. 1,540 under "Permanent" and Rs. 44,542-11-4 under "Miscellaneous." The advances outstanding at the close of the year were thus Rs. 94,540-11-9 under permanent and Rs. 67,266-10-1 under miscellaneous or Rs. 1,61,807-5-10 in the aggregate against Rs. 1,69,487-15-7 at the end of the previous year.



# EXPENDITURE.

## Grant I—(*Public Works*).

### Communications.

#### *New Works.*

56. Besides the usual improvements of roadways by acquisition of lands for widening streets, rounding off dangerous corners, etc., which were comparatively few during the year, some minor works such as the removal of Tramway and Telegraph Posts at important junctions, and refixing them at the sides of roads were carried out. The "Spring Haven Road" constructed by the Madras Port Trust was taken over by the Corporation at the request of the Chairman of the Trust. A Skew Bridge was constructed over the Otteri Nullah at Stephenson Road.

The total amount of expenditure under this head was Rs. 31,417 against the Revised Estimate of Rs. 56,600; the decrease in expenditure is due to the withdrawal from certain acquisitions with a view to economy.

57. Lands and buildings were acquired in the following places :—

- (1) In Tondiarpet for widening Lawyer Chinnathambi Mudali 2nd Street, and connecting it with Sanjeeviroyan Covil Street.
- (2) In Georgetown for rounding off the corner at the junction of Armenian Street and Mukur Nallamuthu Chetti Street.
- (3) In Georgetown for widening Popham's Broadway at R. S. Nos. 5617 (1 a, 1 b & 2) 5623 to 5626, 5629, 5630, 5632, 5633 and 5631 (1).
- (4) In Vepery for connecting Cuddappah Rangiah Chetti Street with Mattukkara Veerabadran Street.
- (5) In Mylapore for connecting Chanda Sahib Street with Masthura Begam Pettah Road.
- (6) The land occupied by Messrs. Shivji & Co. at R. S. No. 11452 of Georgetown in Broadway was taken over under Section 235 of the Municipal Act and the road widened.
- (7) The Tramway and Telegraph Posts at the junction of General Hospital Road and Evening Bazaar Road, the Madras Electric Supply Corporation Posts at the junction of Nungambakkam High Road and College Road, and the Tramway Poles in Cutcheri Road, Mylapore, were all shifted to the sides of the roads to facilitate traffic.

58. In order to alleviate the long standing complaints about the flooding of the road dam in Stephenson Road, by the Otteri Nullah, a Skew Bridge was proposed

at a cost of Rs. 14,120. This as well as a parapet wall rounding off the approaches of the Nullah Bridge at the junction of Coonoor Road and Cook's Road were in progress during the year.

59. *Spring Haven Road.*—This road is 2,175 feet long and runs eastward in continuation of Fraser Bridge Road. It was constructed by the Madras Port Trust at a cost of Rs. 38,467 and was taken over by the Corporation on 8th March 1916, for future maintenance.

This road will be the only mode of access to the following places when the existing road which runs from Parry Corner across the railway eastwards to the Post Office stables is closed on account of the contemplated enlargement of the New Beach station yard :—

- (a) Harbour Station yard.
- (b) Spring Haven Road and the South Quay.
- (c) Port Trust Explosive Magazine.

#### *Repairs.*

60. The total expenditure incurred under this head was Rs. 3,89,653 against the Revised Estimate of Rs. 3,60,840 and the actuals of Rs. 2,10,673 of the previous year. The increase in both, is due to the greater number of miles of roads reformed during the year, many roads having been left unreformed in the previous year owing to the non-receipt of road metal. In the year under report systematic and timely expenditure was incurred on the maintenance of roads under the new contract which was entered into in April 1915, and the increased expenditure has brought the roads to a fairly satisfactory condition.

61. *Reform and Repair of Roads.*—During the year 3 miles, 5 furlongs and 103 yards as against 2 miles, 3 furlongs and 210 yards last year of unmetalled roads were metalled for the first time.

The number of squares (100 sq. ft.) laid in the reform of roads was 62,625·88 which is equivalent to 59·30 miles of roads, 20 feet wide against 31·23 miles of roads reformed in the previous year.

*Vide* details in Tables 13 and 14, Appendix II.

The quantity of materials used in reform and in repair of roads by patching is as follows :—

|            |     | B. Granite.<br>C.ft. | V. Granite.<br>C.ft. | Laterite.<br>C.ft. |
|------------|-----|----------------------|----------------------|--------------------|
| Reform     | ... | 10,10,569            | 3,10,361             | 5,90,099           |
| Patch-work | ... | 63,283               | 15,673               | 29,600             |

The cost of reform including materials, cartage and laying but exclusive of rolling was Rs. 2,57,760.



The 59.30 miles of roads completely reformed cost Rs. 4,347 per mile against Rs. 4,211 in 1914-15 and Rs. 4,311 per mile in 1913-14.

The excess represents the acceptance of higher rates due to change of contract for the reform of roads.

The comparative figures for granite reform are as shown below, the figures being squares in each case.

|         |     | 6"                | 4"     | 3"        | 2"    |
|---------|-----|-------------------|--------|-----------|-------|
| 1914-15 | ... | 410 $\frac{1}{4}$ | 12,984 | 16,225    | ...   |
| 1915-16 | ... | 1,423             | 20,767 | 20,783.37 | 2,038 |

62. *Tarring Roads.*—To the already existing 6 miles, 7 furlongs and 48 yards of tarred roads in the city, the following new roads to the aggregate length of 1 mile, 4 furlongs and 142 yards were tar sprayed during the year, viz.:—

- (a) Band Practice Road from Band Beach Road to a length of 545 feet.
- (b) Police Commissioner's Office Road from Harris Road to Poona-mallee High Road.
- (c) Wallajah Road from Triplicane High Road to Bell's Road.
- (d) South Beach Road from Presidency College to Ice House Road.

In addition, the following roads were retarred to a length of 1 mile, 4 furlongs and 10 yards thus representing 3 miles and 152 yards of roads which were tarred in all during the year:—

- (a) Mount Road from Government House Bridge to Wallajah Road and from Messrs. W. E. Smith & Co. to Messrs. Spencer & Co.
- (b) General Patter's Road from Mount Road to Wood's Road and West Cott Road from Pycroft's Road to Peters Road.

Of the above, Band Practice Road was experimentally treated with a material known as "Petroleum Pitch" for a length of 545 feet, instead of with the usual distilled coal tar. South Beach Road from Sunkuwar Street to Ice House Road for a distance of 770 feet was treated with "Petroleum Pitch" combined with coal tar. This new material was claimed as better suited for roads than the ordinary distilled coal tar, but the above experiments did not prove the claim; hence use of the material was discontinued. The failure was in some degree due to want of proper plant to handle the material.

The laying as a demonstration of an asphaltic concrete road, by the Standard Oil Company could not be started within the official year, as Mr. Staber of Standard Oil Company, who was to have carried out the demonstration was away from India and returned to Madras only at the end of May 1916. The experiment was therefore started on the 29th May in that portion of the road between Munro Statue and Wallajah Bridge extending to a length of 150 feet under the supervision of Mr. Staber. Detailed reports as to the costs, durability, etc., will be embodied in the next report.



*Repairs to Culverts, Foot-paths and Bridges.*

63. (1) *Culverts*.—The culvert at the junction of Kelly's Road and Purasawakam High Road was extended, the culverts opposite to the Madras Volunteer Guards' Head Quarters, Poonamallee High Road were enlarged, and a retaining wall was constructed. The culvert at the junction of Moore's Road and Anderson Road in Nungambakkam was dismantled and reconstructed.

Culvert No. 1 in DeMellow's Road was widened and the widening of culvert No. 2 in the same street was in progress.

Side walls at the junction of Mowbray's Road and Oliver Road were constructed and the parapet wall in front of the Model School at Arunachala Naick Road was removed and the drain was covered with granite slabs.

(2) *Foot-paths*.—A foot-path in Mount Road from Wood's Road up to Messrs. Nailer and Co., and a platform for the location of Hackney Carriages at the junction of Wall Tax Road and General Hospital Road were constructed.

(3) *Bridges*.—Punthottam Aqueduct and Soolai Cathai Bridge at Mylapore were repaired by the Corporation for transferring them to Government for maintenance. Napier Bridge and the newly repaired wooden railings of Government House Bridge were painted during the year.

**Buildings.**

*New Works.*

64. An expenditure of Rs. 2,27,031, was incurred under this head against Rs. 2,98,740 in the Revised Estimate. The decrease was due partly to the withdrawal of two acquisition cases, and partly to the fact that works in progress during the year and works completed were not actually paid for within the year.

**Hospitals.**

65. (1) *Rajah Sir Ramaswamy Mudaliar Lying-in-Hospital*.—The construction of quarters for Indian Nurses was completed during the year.

In addition to the electrical installations which were newly carried out during the year, other improvements, such as the fixing of iron bars and windows with teakwood shelves and frames and of wire netting to all the openings of the verandah of the several wards were effected at the instance of the Resident Surgeon of the Hospital.

(2) *Royapettah Hospital*.—The installation of sanitary and electric fittings for the Sub-Assistant Surgeons' quarters was completed during the year, and two compound walls, one dividing the Sub-Assistant Surgeon's quarters and the new proposed hospital Dhobykhana, and another enclosing the newly acquired land for the khana were built during the year.

(3) *Infectious Disease Hospital in Barracks Square*.—The improvements designed to make the present building suitable for use as an hospital for the treatment of infectious diseases were in progress during the year.



### Model Paracherri.

66. The construction of the Model Paracherri of 34 tenements in Cemetery Road, with the exception of the latrine which was under progress, was completed during the year at a total cost of Rs. 18,130 ; and the tenements have been let to the conservancy sweepers at a rental of As. 8 per tenement. 8

### Model Schools.

67. The construction of school buildings at the following places was completed during the year :—

- (a) Angappa Naick Street, Georgetown
  - (b) Rama Naick Street, Nungambakam
  - (c) Venkatarangam Pillai Street, Triplicane
- and main buildings with the exception of latrines at
- (a) Cemetery Road, Tondiarpet
  - (b) Salai Vinayager Covil Street, Georgetown
  - (c) Triplicane High Road, Triplicane, and
  - (d) Bells Road, Triplicane

were constructed during the year thus making up a total of 18 schools in all to the end of the year under report.

The construction of buildings at (a) Vasapmode Paracherri, Georgetown ; (b) Vadhyar Canda Pillai Street, Purasawakkam and at (c) Ammayappa Mudali Street, Mylapore was under progress.

In addition to the 7 sites already acquired, or alienated by Government for the construction of model schools, the Corporation land behind " Hope Lodge " in Vyasarpady, was selected by the Corporation as site for the 10th Division school at the instance of the Divisional Commissioner and the Inspector of Schools.

### Works carried out for the Health Department.

68. (1) *Model Milch Cow-houses.*—Though the acquisition of the land occupied by the old Fiji Emigration Depot was completed during the year at a cost of Rs.22,093-12-10, actual alteration of the existing buildings to suit the needs of a model cow house had to be postponed on account of financial stringency.

The alterations to B. Depot, Basin Bridge Road needed to make it suitable for a Cow house were under progress during the year.

(2) *Passport Office in Tiruvottiyur High Road.*—Alterations to this building as dispensary and for offices for Sanitary Inspector, Conservancy Overseer, Vaccinator, Medical Registrar and Plague Inspector were completed during the year.

(3) *Latrines.*—The acquisition of land for the construction of a flush-out latrine in Thambu Chetty Lane and the construction of a flush-out latrine at Polu Naicken Street, Perambur was completed during the year. 9

A new type of a sanitary urinal called " Torfeit Urinal " was installed in Wall Tax Road near the Central Station as an experimental measure, as it was



represented by the manufacturers, Messrs. Vacha & Co., of Bombay, that by the introduction of these urinals, flushing by water might be entirely dispensed with and the latrines would be free from smell.

The construction of flush-out latrines at (a) Kasimodu Garden near Flag Staff Street ; (b) Mottai Garden ; (c) Periathambi Street, Kasimodu ; (d) Narayanappa Naick, 8th Street and (e) Cemetery Road in the Tondiarpet Division; (f) at the junction of Basin Road and Old Jail Street and (g) at Shaik Maistri Street junction of Thambu Chetty Lane in Georgetown, were in progress during the year. Tenders for the construction of similar flush-out latrines at other parts of the city as noted below at :—

- (a) Shaik Maistri Street in Tondiarpet
- (b) Palmyra Kuppam in Tondiarpet
- (c) Kuppam Hutting Ground
- (d) Cooum River Road
- (e) Angalamman Coil Street
- (f) Swami Reddi Street
- (g) Candappa Mudali Street, and
- (h) Sirdar Jungs Garden

were approved by the Corporation and the works are in progress during the current year.

(4) *Burial and Burning Grounds.*—Land was acquired at a cost of Rs. 2,070 for the extension of the Hindu Burial ground in Suriyanarayana Chetti Street, and the fallen shed at the Mylapore Burial and Burning ground was reconstructed during the year.

(5) *Bathing Fountains* :—The corrugated iron sheet enclosure at the Ice House Road bathing fountain was dismantled and in its place a new one with masonry walls was constructed. Another fountain was also constructed in Basin Bridge Road at the junction of Mint Street.

(6) Besides the above the following minor works were carried out :—

Four small incinerators at Cochrane Basin Road, 3rd Division ; one at Chulai Mills, 11th Division, and one at Pycroft's 1st Lane, 18th Division, were constructed.

The Smithfield Market was improved and a verandah was added to the Vaccination Depot at Kalmantapam Road Police Station.

A shed for dogs near the Basin Bridge Road incinerator was constructed and alterations and additions to the lethal chamber at Kistnampet were in progress.

The construction of a dust-bin platform as advocated in the Conservancy Report as an experimental measure was under progress and it is intended to construct similar platforms in the city if the experiment proves a success.

#### Other Works.

69. (1) *Central Fire Station at Puduket.*—The construction of quarters for a European and an Indian driver by the side of the existing quarters could not be



carried out but had to be postponed in the face of other and more important works which had to be given effect to. But tenders for the additions to the existing engine shed to accommodate the two more engines were accepted at a cost of Rs. 11,860, and the work was in progress.

(2) *Parks*.—The fencing of the small deer enclosure in the menagerie, People's Park, was completed during the year and roadways were formed around the new bear's cage.

The construction of a room on the upper floor of the Superintendent's quarters and the extension of the foliage shed in front of the gate in Robinson Park were completed during the year.

(3) *Workshops and Stores*.—The original tenderer for Rs. 5,496-2-0 for the construction of a compound wall for the Corporation Workshop and Stores having failed to start the work within the stipulated time, the contract was relet and the revised tender for Rs. 6,110 was accepted by the Standing Committee on 1st October 1915. This work as well as the construction of a corrugated iron shed at Stores were under progress during the year.

(4) Two offices and stores, one for the Drainage Overseer at Mannarsamy Koil Street, and another for the Sewer-Cleaning Staff next to 'C' Pumping Station and quarters with an office room for the Licensing Clerk at Adyar were newly constructed during the year.

#### *Repairs.*

70. Details of repairs and improvements carried out to Municipal Buildings and the cost of such works are shown in Appendix I, Statement II-A, Part II.

#### **Water-Supply and Drainage—Special Works Department.**

71. The work of the Special Works Department consists mainly in the design and construction of new works for the water-supply and drainage of the City. It also undertakes the maintenance of these works, until they are ready to be handed over to the Works Department.

Under normal conditions, the year under review would have witnessed a maximum output of construction work. Unfortunately, owing to the war, the year was not normal. It has been necessary to reduce work as much as possible, in order to curtail expenditure. During the second half of the year, as the war showed no sign of coming to an end, it became difficult to finance the works. No new works were started, and works already in progress were slowed down and the staff reduced as much as possible, consistent with carrying out the contracts already let. By these means, the expenditure, which under normal conditions would have been some Rs. 30 lakhs, was reduced to Rs. 11½ lakhs. Since the war started, the cost of the Special Works Department establishment has been reduced by some Rs. 3,000 per mensem.

72. *Restricted proposals*.—In the circumstances, it was felt that the Corporation could not contemplate the execution in the immediate future of the whole of the works designed in pre-war days by the Special Engineer, works which are



estimated to require for their completion a sum of Rs. 150 lakhs, in addition to the amounts already spent.

It was felt, however, that the water and drainage works in the course of construction must proceed, both from sanitary and economical point of views. From a sanitary point of view, because the drainage of Madras is at present in a very unsatisfactory condition, owing to the neglect of many years, and from an economical point of view, because the Corporation is committed to an expenditure of some 20 lakhs of rupees in contracts, which could not be cancelled except by paying heavy damages, and also because a considerable sum has been sunk in work which is only partially executed, and will be of no use unless it is completed.

In these circumstances, the Special Engineer prepared what has been called a "Restricted Programme," which contemplates the completion of the most urgently required works, 'both for water-supply and drainage,' at a total estimated cost of Rs. 50 lakhs spread over a period of five years.

73. *Scope of restricted proposals.*—When this restricted programme has been completed, the water-supply will be in a satisfactory condition except that the filter beds will be insufficient in area. The additional filter beds, for which estimates amounting to Rs. 5,30,000 were sanctioned by Government in July 1914, are no doubt desirable and should be started as soon as funds can be obtained. They will take two or three years to construct.

The drainage works included in the restricted proposals are in conformity with the comprehensive scheme of City drainage, which has already been sanctioned and which can be completed as urgency arises and funds become available. The works proposed are those necessary to obtain the greatest benefit from the works now wholly or partially constructed, and to remedy the worst cases of insanitation. While they leave large sections of the municipal area unprovided with underground drains, they will greatly improve the sanitary condition of the whole of the thickly populated areas of the City.

It must, however, be clearly understood that the whole of the Main Drainage Scheme should be carried out as early as possible, for the increased supply has brought about the breakdown of the drainage system foretold by the Special Engineer in 1910.

The delay which has now been decided on, means a postponement of the time when Madras as a whole can be made sanitary, and the death-rate reduced to that of a normal healthy community. It should, therefore, be made as short as possible.

74. *Filter Beds.*—On the *Waterworks Section*, the work done during the year under review has consisted chiefly of placing filtering materials in the filters already built, and of extending the Distribution System. Owing to the extreme dilatoriness of the contractor, the Corporation has done most of the filter filling by direct labour. Eleven filters out of the fourteen have now been filled, leaving three to be completed. Even when the whole 14 filters have been completed, they will be insufficient in area to deal with the whole quantity of water now consumed by the City.



In G.O., No. 1442-M., dated 31st July 1914, Government sanctioned estimates, amounting to Rs. 5,30,000 submitted by the Special Engineer for the construction of seven additional filters, an additional pure water tank, and accessory works, but owing to the present financial stringency, it has been decided to postpone construction until more favourable conditions obtain.

75. *Prevention of waste of water.*—As is the case in every large Indian City, great difficulty is found in limiting the waste to reasonable proportions. The consumption during the past year is approximately twice what it was before the new waterworks were opened. The big increase is largely due to the waste caused by leaky fittings, taps left open, and the irrigation of gardens by means of pipe water. To reduce this waste, the Corporation has, during the past year, introduced regulations and rules to prevent waste, contamination, and misuse of water, and has also adopted the principle recommended by the Special Engineer of having two classes of house services: a first class service in which the consumer is required to hire water meters from the Corporation, and to adopt only specified fittings, the positions and numbers of which have to be approved, and a second class service, in which the consumer is allowed to fix one tap of approved pattern, provided it is placed in such a position that it is visible from the road, and can at all times be inspected by the municipal staff. 10

The Corporation has also introduced a scale of fees for connecting and testing house services, and for the rent of meters. The strict enforcement of the regulations should minimise waste of water due to leakage and misuse in the house services. In addition, there is undoubtedly leakage in the street pipes. This leakage is very difficult to discover, especially where the pipes are laid in sand.

In Madras, iron pipes have a shorter life than in many other Cities, and experience has shown that a large proportion of the pipes laid 20 years and more ago are unsound. From these unsound pipes which include many house communication pipes, water must be escaping in thousands of small leaks. Many small leaks will account for a large total loss, which will be quite invisible in porous soils where the water gets away readily. To detect these hidden leaks, a complete waste-water meter system has been designed, and plans and specifications drawn up. The calling for tenders has been postponed on account of the war.

*House to house inspection.*—With a view to reducing waste, a small special staff was sanctioned on 20th September 1915, to carry out house to house inspection. Up to 31st March 1916, 11,500 houses were inspected of which some 5,000 had leaky fittings. Notices have been served on the owners, and in most cases the defects have been rectified.

76. *Water pressure maintained.*—In spite of this work, it has been found quite impossible to maintain the full available pressure during the whole day. A pressure of about 45 feet above ground level is provided in the principal mains between 5-30 A.M. and 9-30 A.M.; from 9-30 A.M. to 6 P.M. it is reduced to 30 feet; from 6 P.M. to 10 P.M. to 15 feet; and from 10 P.M. to 5-30 A.M. to 10 feet. This method of controlling the waste by reducing the pressure has also been adopted by Calcutta, where even though the total water-supply exceeds 50 gallons per



head per day, it has been found impossible to maintain the full head throughout the 24 hours.

77. *Quantity of water supplied.*—By means of the above-mentioned methods—remedying defects in house services, and limiting the pressure of the supply—the consumption in Madras City has been kept under control. The maximum quantity taken during any week was about 135 million gallons, which is equivalent to 39 gallons per head per day. This was gradually reduced to about 24 gallons per head per day during the monsoon period, after which it gradually increased to 29 gallons per head per day. As the system is only designed to supply 25 gallons per head per day, the increased consumption has led to a greater cost in pumping than anticipated. It has also taxed the filters to such an extent that unfiltered water has to be mixed with filtered water every day in the proportions of about one to three.

78. *Water-supply and Health.*—The death-rate returns appear to prove that the new water-supply has improved the healthfulness of the city. The works were opened on 17th December 1914, and it is very interesting to note that while the death-rate during 1914 was 46·6 per 1,000, it dropped to 36·0 in 1915. Moreover this death-rate is the lowest during the last 20 years with the exception of that of 1897 when it was 35·5. While it may be a coincidence that so great a drop in the death-rate has occurred during the first year that the new water-supply has been in use, still the fact that it is the lowest death-rate for so many years, makes it fairly safe to infer that the new supply has largely added to the healthfulness of the City, because, except for the water-supply, the health factors must have been at least as favourable during several other years. *✓*

79. *Water Distribution System.*—The Water Distribution System has been considerably extended during the year under review. The two large mains to the north and south of the City have been completed, and a number of subsidiary and street mains have been laid in districts and streets where a better water-supply was urgently required. The total length of water pipes laid to date under the new scheme is 2,24,000 feet of which 88,000 feet were laid during the year.

On account of the war, it was decided not to proceed with the large pipe contract amounting to some 13 lakhs, for which the Corporation had received tenders, but owing to the urgency of providing a better supply in many areas, pipe contracts amounting to about Rs. 5,60,000—exclusive of freight and war risk insurance—have been entered into during the year. When the pipes under these contracts have been delivered and laid, the distribution system should be fairly satisfactory, even though it will not include many of the pipe lines which the Special Engineer proposed in his Water Distribution Report of 1913.

80. (1) *Drainage Works.*—On the Drainage Section of the Special Works Department work has been restricted to carrying out works already in progress. These are the most difficult of the urgently required works—those which will take the longest to complete and that employ largely local labour, and those which are required to get the fullest benefit from the works already carried out.



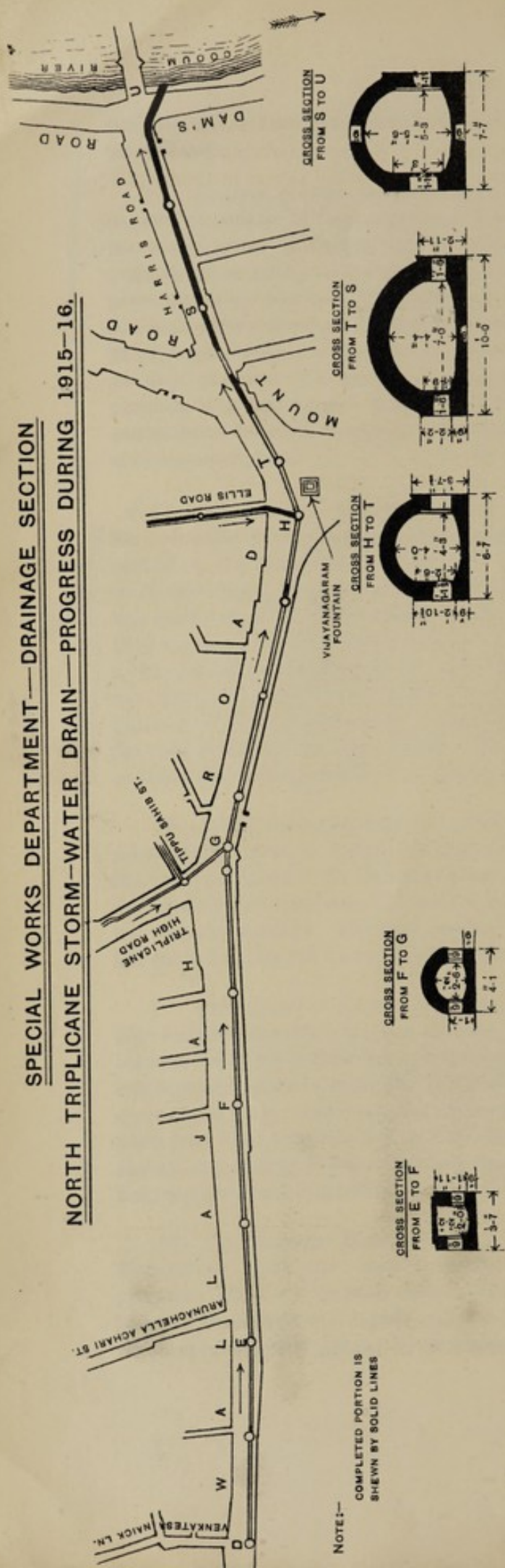
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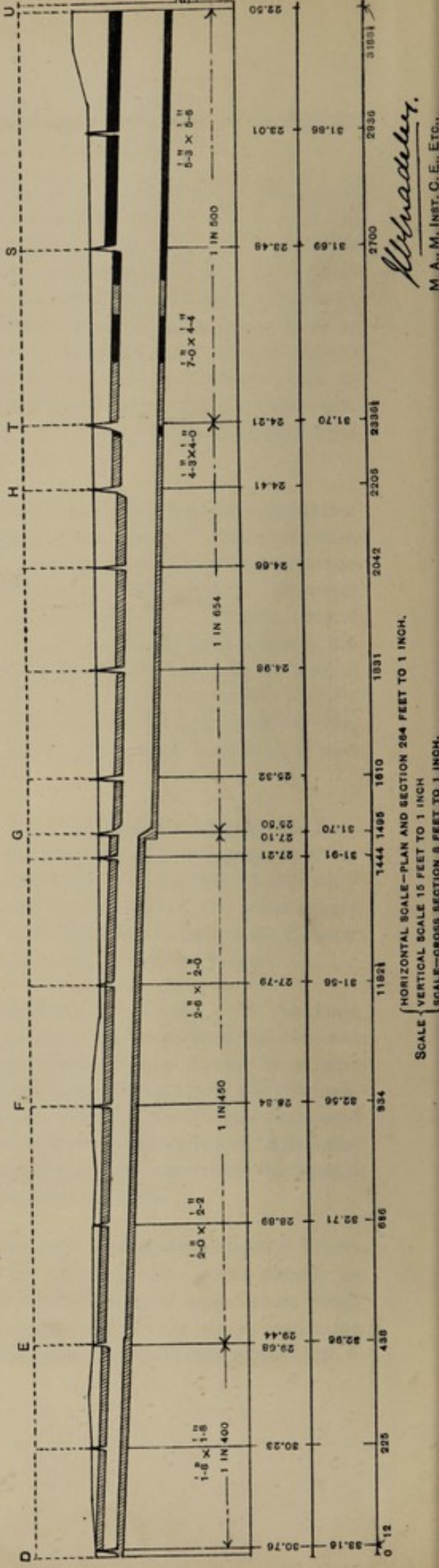
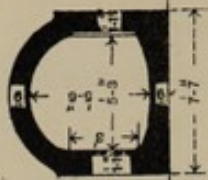
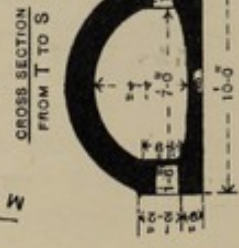
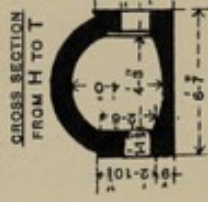
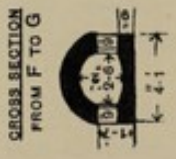
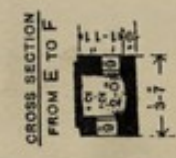
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# **SPECIAL WORKS DEPARTMENT—DRAINAGE SECTION** **NORTH TRIPPLICANE STORM-WATER DRAIN—PROGRESS DURING 1915-16.**



NOTE:—  
 COMPLETED PORTION IS  
 SHOWN BY SOLID LINES



HORIZONTAL SCALE—PLAN AND SECTION 264 FEET TO 1 INCH.  
 SCALE { VERTICAL SCALE 15 FEET TO 1 INCH  
 CROSS SECTION 8 FEET TO 1 INCH.

*W. Madhavan*  
 M. A. M. INST. C. E., ETC.,



Briefly stated, the works consist of the deepest sewers in the Napier Park and Purasawakam drainage areas, the laying of deep intercepting sewers in Georgetown, and the connection of houses to the newly laid sewers in Tondiarpet.

(2) *Method of construction.*—The construction of drainage work is carried out by contract wherever possible. Unfortunately this system has many disadvantages. In Madras there are very few contractors who possess that combination of capital, plant, and energy, which is requisite to carry out difficult work. In consequence all the most difficult work is executed by labour working under direct departmental control. Furthermore during the last two or three years contractors have greatly increased their prices but have not increased their speed of doing work. Consequently contract work compares unfavourable with direct departmental work in all the three most important factors in the construction of work, *viz.*, ability to overcome difficulties, cost, and speed of execution. This is most unfortunate, for there is no doubt that departmental work gives subordinates opportunities to supplement their pay by improper means, and it is on this account that the Corporation has decided that work should be carried out by contract wherever practicable.

(3) *Difficulties encountered.*—The principal works in course of execution are the Gravitation Mains for the Napier Park and Purasawakam areas. In constructing these mains, great difficulties have been encountered due to water and bad ground. This has been more particularly the case with the Purasawakkam Main, where it was found necessary to use interlocking steel piles for excavation, and to substitute cast-iron pipes for the brick sewer originally intended. The ground in which the pipes were laid proved so treacherous that very special methods had to be adopted. For a considerable length the ground consisted of semi-liquid black mud, necessitating the driving of long timber bearer piles with cross pieces, to which the pipes were strapped to prevent them sinking into the mud when they were full, or being forced upwards by the mud when empty. These difficulties coupled with the rise in prices have caused the cost to exceed that provided in the original estimates of 1913. //

In the Napier Park area, the principal difficulty has been the large quantity of water to be handled. In this case, it has been possible to neutralise the increased expense by effecting economies in the arrangement of sewers, so that the total cost will be no greater than the original estimates in spite of the great rise in prices that has occurred since the estimates were prepared.

(4) *North Triplicane Storm Water Drainage.*—In addition to foul water drainage, a new work, considered of great urgency—the storm water drainage of North Triplicane—has been taken up. Designs have been prepared and half the work completed, direct departmental labour being employed to secure economy and expedition.

The plan facing this page shows the line of the large sewer, which forms the principal work of the North Triplicane Storm Water drainage. A longitudinal section of the sewer, and cross sections at different points are also shown.

(5) *Anti-Malaria Drainage.*—A scheme for *anti-malaria drainage* work in the Purasawakkam area of Madras has also been designed. The general principle



13 is to drain the tanks to the lowest level possible by gravitation. The drains are designed to discharge into the Otteri Nullah at various points. As an experiment, a small portion of the scheme has already been carried out, and the results are sufficiently favourable to indicate that the execution of the whole of the proposed scheme is most desirable in order to drain the Purasawakkam tanks and swamps which form such extensive breeding grounds for malaria-carrying mosquitoes. //

#### New Sewage Farm.

14 81. During the previous year a staff was sanctioned for the preparation of plans and estimates for a new Sewage Farm three miles to the north of the City boundary, but owing to the war, only a very small proportion of the staff has been engaged. The Special Engineer has submitted an approximate estimate amounting to Rs. 12 lakhs for the acquisition of land, levelling and laying out the farm, purchasing and erecting pumping plant, and constructing pumping mains, channels, and distributaries and everything else necessary to force the sewage the three miles which separates the old and proposed farms, and to distribute it over the latter. Detailed estimates have now been completed and will be submitted as soon as an estimate has been received from the Collector of Chingleput of the cost of acquiring land and moving certain Kuppams which will be rendered uninhabitable, if the area proposed by the Corporation is used for the farm.

Some details of the work executed by the Special Works Department during the year under review are given in statements (*vide* Appendix II tables 1 to 11).

#### Drainage—(Ordinary).

##### New Works.

82. *House Drainage (1) Tondiarpet Area.*—Alteration of house drains in this area was continued and the drainage of 1,138 houses was altered. In addition, 268 connections between the house and the syphons and 148 connections between the syphons and the sewers were carried out during the year.

(2) *Georgetown Area.*—This was the next area to be treated and the work was begun in December 1915. Within the 31st March 1916, the drainage of 69 houses was altered and connections of the house drains with the sewers were effected in 401 cases.

Besides the work in these two areas, alterations of house drainage to 180 houses were carried out in various other parts of the City.

The expenditure on ordinary drainage amounted to Rs. 12,361 against Rs. 16,400 in the Revised Estimate.

Under ordinary drainage works, the construction of seven manholes in Mylapore where the sewers did not work satisfactorily, was completed during the year, and other minor works, such as,

(a) The construction of masonry drains in certain streets in Tondiarpet, Purasawakam, Chulai, Kosapet and Triplicane ;

(b) The demolition of old syphons at Sadayappa Mudali Street, Mylapore, and the construction of new syphons ;



(c) The removal of broken pipes in Arunagiri Mudali Street, Mylapore, and relaying with 6-inch stoneware pipes, and

(d) Construction of silt pits in certain streets in Georgetown and Wall Tax Road, were carried out during the year.

#### *Repairs.*

83. The repairs done to drains and their cost are shown in Appendix I, Statement II-A, Part II.

#### *Sewer-Cleaning.*

During the year, 6,14,345 feet of sewers were cleaned and 4,410 obstructions, from sewers, and 970 from syphons were removed. The quantity of silt removed from the manholes and separators was 1,14,894 cubic feet.

In the areas of Triplicane, Mylapore, Mirsahibpet, Royapettah and in various other portions of the City, 1,702 syphons were raised and provided with silt catcher buckets on the house connections. Connections to the several sewers throughout the City were treated in the same way by the provision of silt catchers with the result that the admission of silt to the sewers was prevented to a great extent and the surcharging in the sewers complained of during the past years was greatly minimised.

The sewers at Guffur Sahib Street and Jawar Hussain Street, Triplicane, showed signs of collapse and it was arranged with the Special Works Department to relay these sewers and provide silt catchers.

#### **Water-Supply—(Ordinary).**

84. With a view to ensure good and sound work and to prevent waste and contamination of water, certain regulations and rules in the maintenance and carrying out of the waterworks were framed which, with but slight modifications at the hands of a special committee appointed for the purpose, were approved by the Corporation at the general meeting held on 20th April 1915. Some of the main features of the new regulations are :—

(a) Classification of house connections into two classes, first and second, the former implying the provision of more than one tap with a meter and the latter implying the fixing of only one tap with an  $\frac{1}{2}$ -inch pipe ;

(b) the charging of rents for different classes of meters proposed to be newly fixed ;

(c) charging of fees for connections with municipal water works, and

(d) fees for testing communications, pipes and fittings in cases where new pipes were laid to ensure sound joints.

The new regulations came into force from the 12th December 1915.

A scheme to train certain apprentices for qualifying themselves as water-works overseers and plumbers was formulated, and detailed rules were drawn up



by the Engineer for taking in such apprentices. The scheme was approved by the Corporation at their general meeting held on 20th May 1916.

(1) *Private Service*.—During the year, 507 new services as against 452 in the previous year were laid by licensed plumbers and 5,562 existing services as against 2,412 were repaired, cleaned, altered, and extended. The increase in the number of repaired services is due to the leakage detected in the old defective pipes owing to the increased pressure in the mains. Of the 507 new services, 33 were first class and 474 were second class connections under the new regulations referred to above. The total number of house services laid up to the end of 1915-16 was 28,218. There were 32 licensed plumbers on 31st March 1916.

The quantity of water charged for as having been used for non-domestic purposes was 191,849,662 gallons. The amount collected during the year was Rs. 1,34,482-6-8 as shown in detail in Table No. 17, Appendix II. The charge for water supplied for non-domestic purposes continued to be 12 annas per 1,000 gallons.

(2) *New Works*.—During the year, 18,241 feet of pipes were removed, cleaned and relaid and 4,873 feet of new mains were laid in certain streets at a cost of Rs. 4,481 out of the total expenditure of Rs. 14,168 under this head. Besides these, 48 fountains were newly erected and 9 valves, 17 stop cocks, 6 pumps, 1 hydrant and 91 meters were fixed. Table No. 12 of Appendix II shows the length of pipes laid.

(3) *Red Hills*.—On the 1st April 1915, the level of Red Hills Lake stood at 43.76 and on the 31st March 1916 at 41.51.

The rainfall and average water level for each month as furnished by the Public Works Department are shown in Table 16, Appendix II.

The quantity of water-supply measured at the Red Hills during 1915-16 was 899,476,812 c.ft. (equal to 5,605,539, 492.384 gallons) as against 606,987,108 c.ft. in the previous year. The increase in consumption is mainly due to the laying of additional mains and the supply of water under the increased pressure.

(4) *Red Hills Lake, Filter Beds and Conduit, Delivery Channel, Fountains and Pipes*.—The cost of maintaining these including the establishment amounted to Rs. 65,682 as against Rs. 56,306 in the previous year. The increase is due to the maintenance of staff for filter beds and conduit newly added in the year, to the repair of old defective pipes, and also to the temporary maintenance of the special staff engaged for water waste detection and prevention.

There are now 1,470 fountains and cattle troughs within the municipal limits, 48 having been newly erected during the year.

#### Miscellaneous.

85. *New Works*.—The expenditure under this head amounted to Rs. 13,655 against a sum of Rs. 9,310 exclusive of the Government Grant of Rs. 10,384 in the



Revised Estimate, and was incurred on the acquisition of land for the construction of a hackney carriage stand in Harris Road and on other miscellaneous works. The apparent increase in the expenditure is due to the adjustment in the accounts in respect of the piece of land occupied by a small tank next to the Police Station, Egmore, which had already been transferred to the Corporation by the Trustees of the property who were unable to pay to the Corporation the sum of Rs. 5,000 incurred in the filling of the tank.

#### Administration.

86. *Notices.*—6,612 notices as against 1,543 were served under the various sections of the Municipal Act dealing with the construction or reconstruction of masonry buildings or huts, removal of encroachments or projections, precautions in case of buildings, tanks, etc., in ruinous state, fencing of buildings or lands and pruning of hedges and trees, maintenance of pipes for catching water falling from roofs and far greater than all in the case of misuse, wastage and contamination of water-supply. In 5,757 cases, the notices were complied with. The increase is due to more careful supervision.

87. *Permits.*—2,954 permits were issued under Sections 268 and 278 of the Municipal Act for the construction or reconstruction of masonry buildings, huts and for carrying out simple repairs.

88. *Prosecutions.*—Magisterial proceedings were taken in 216 cases as against 141 in the previous year. In 173 cases, the defaulters were convicted and fined; in three cases they were acquitted and in 22 cases they were withdrawn. Owing to the whereabouts of the defaulters not being known, the summonses could not be served in 17 cases, and only one case on the whole remained undisposed of. The increase in the number of prosecutions has been chiefly under Sections 198 and 319 in respect of contamination of the Red Hills Lake. Fines in cases of conviction amounted to Rs. 181-8-0.

89. Provisional orders under Section 287 (1) and (2) of the Municipal Act were issued in 669 cases and in 502 cases final orders were issued under Section 287 (3) as the parties failed to comply with them.

#### Grant II—Education.

90. The progress made under elementary education during the year is given in the report of the Sub-Assistant Inspector of Schools, printed in Appendix III.

The expenditure under this head amounted to Rs. 32,301-6-6 against Rs. 27,392-0-5 in the previous year, the increase being due to the establishment of four new elementary schools at Venkatarangam Pillai Street, Bells Road, Salai Vinayagar Koil Street and Angappa Naick Street.

91. According to the scheme sanctioned in G.O., No. 820-M., dated 25th May 1911, 20 schools should have been constructed and 16 opened by the end of the year. Fifteen schools were actually completed and opened excluding the school at Chetpet. Two school buildings were completed and ready for occupation and three other school buildings were in course of construction during the year.



92. The total number of schools maintained by the Corporation at the end of the year was 16. There were 1,931 boys and 386 girls on the rolls of these schools on 31st March 1916 against 1,570 boys and 220 girls at the end of 1914-15. There were 82 teachers in the Corporation Schools besides four Drawing and Kindergarten Instructors, two Gymnastic Instructors and one Supervisor for Drawing and Kindergarten employed for the benefit of all the elementary schools in the City and most of them were professionally qualified. Those that were not qualified have been informed that they will not be confirmed until they qualify themselves fully.

93. Nine teachers were under training during the year in the Government Training School, Saidapet, and four in the Government Training School, Triplicane. The total amount of stipends paid to these teachers was Rs. 1,169-15-11.

### Grant III—Sanitation and Medical Services.

#### Hospitals and Dispensaries.

94. *Royapettah Hospital* :—The expenditure on the maintenance of this hospital rose from Rs. 44,202-0-6 to Rs. 46,595-2-7, but was less than the revised estimate by Rs. 794-13-5. The increase was due to the fact that the X ray apparatus was newly installed in the hospital during the year. The total number of in-patients treated in this hospital was 2,512 against 2,580, in the previous year but that of out-patients rose from 60,145 to 62,844.

95. *Raja Sir Ramaswami Mudaliar Maternity Hospital* :—The amount spent on this institution was Rs. 10,261-4-3 against Rs. 10,030-7-9 in the previous year and Rs. 9,350 in the revised estimate. The increase over the expenditure of last year was due to the increase in the price of articles due to war. The number of in-patients treated was 1,229 against 1,269 and that of out-patients 894 against 838 in the previous year.

96. *Georgetown Dispensary* :—The charges of this institution amounted to Rs. 12,388-10-11 against Rs. 11,004-3-0 in 1914-15, and Rs. 12,240 in the revised estimate while the number of patients treated in it fell from 43,046 to 42,111. The increase in expenditure notwithstanding the fall in the number of patients was due to a rise in the prices of European medicines and other articles.

97. *Washermanpet Dispensary* :—The maintenance of this institution cost Rs. 4,023-1-6 against Rs. 5,514-2-4 in the previous year. The decrease when compared with the previous year was due to the fact that the large quantity of European medicines purchased in 1914-15 was utilised during the year under report. The number of patients treated was 19,136 against 19,338 in the previous year.

98. *Balialah Nayadu Dispensary* :—The expenditure amounted to Rs. 9,501-11-8 against Rs. 8,012-15-9 in the previous year and against Rs. 9,520 in the revised estimate while the number of patients treated in it fell from 54,579 to 43,491, the decrease in the latter case being explained by the Surgeon to be due to the remarkable fall in the number of malaria cases treated. The increase in the expenditure as compared with the previous year notwithstanding the fall in the number of patients treated was due to a rise in the prices of European medicines and to the larger quantity of them purchased during the year.



99. *Chintladripet Dispensary* :—The outlay on the maintenance of this institution was Rs. 4,132-7-10 against Rs. 3,767-1-8 in the previous year and Rs. 4,020 in the revised estimate. The number of patients treated was 35,214 against 33,876 in the previous year. The increase in expenditure was due to the larger number of patients treated.

100. The reports of the Medical Officers in charge of the above hospitals and dispensaries appear in Appendix IV.

#### Contributions.

101. *Hospitals* :—The usual contribution of Rs. 20,000 for hospitals was paid to Provincial Funds during the year.

102. *San Thome Dispensary* :—The usual monthly contribution of Rs. 66-10-8 and the annual contribution of Rs. 300 were paid to this dispensary during the year. The number of patients treated was 10,474 against 10,412 in the previous year.

103. *St. Thomas' Convent Dispensary* :—A monthly contribution of Rs. 20 was as usual paid to the dispensary. The number of patients treated fell from 11,377 to 9,687.

104. *Victoria Caste and Gosha Hospital* :—A contribution of Rs. 1,000 provided in the budget for the hospital was not claimed and paid for during the year.

105. *Sri Kanyaka Parameswari Devasthanam Ayurvedic Dispensary, Georgetown and Venkataramana Dispensary, Mylapore* :—Contributions amounting to Rs. 500 and Rs. 100, respectively, were paid to these two institutions in the year under report for 1915-16. The number of patients treated in the Sri Kanyaka Parameswari Devasthanam Dispensary was 28,375 and that in the Venkataramana Dispensary was 21,637 against 25,727 and 45,005 respectively, in the previous year.

106. *Kalyani Hospital* :—A contribution of Rs. 600 for 1915-16 was paid to the institution during the year.

107. The reports of the above institutions appear in Appendix IV except that of the Victoria caste and Gosha Hospital, the Honorary Secretary to the Governors of the Hospital not having furnished it.

108. *Sembium Dispensary* :—A sum of Rs. 780 was as usual paid to the District Board of Chingleput, being the moiety of the charges for the up-keep of this Dispensary.

109. *Pasteur Institute of South India, Coonoor* :—The annual contribution of Rs. 250 sanctioned in G.O., No. 14-M., dated 15th January 1909, was paid during the year.

110. *Monegar Choultry and Native Infirmary* :—The annual contribution of Rs. 1,500 sanctioned in G.O., No. 646-M., dated 22nd April 1909, was paid towards the maintenance of these institutions.



### Health Department.

111. With reference to G. Os., No. 407-M., dated 6th March 1914 and No. 506-M., dated 11th March 1914, the Health Officer has submitted a separate report on the working of the Health Department and the statistics relating to that department have been omitted from the present report.

### Anti-Malarial Operations.

112. The report of the Special Malaria Officer on the Anti-Malarial Operations carried out during 1915 is printed in Appendix V.

### Watering Roads.

113. As a result of tarring in Police Commissioner's Office Road, South Beach Road from Pycroft's Road to Ice House Road and West Cott Road from Peter's Road to Pycroft's Road, watering was here discontinued; and the cost incurred under this head was Rs. 18,771 as compared with Rs. 19,638 in the previous year.

About the middle of June 1915, a proposal was put forward by the Madras Electric Tramways to undertake the watering of the road by tram car along their tram lines between Egmore and Royapuram Terminus a distance of 4 miles. This was considered by the Standing Committee at its meeting held on 23rd July 1915, and an offer of Rs. 150 per mensem was made to the Tramway Company and tentatively accepted by them. A trial was made and the experiment proved satisfactory, but the want of a storage tank for water was felt, and an estimate for the construction of such a tank at China Bazaar Road near Pachaiyappa's College to hold 9,000 gallons was under preparation about the close of the official year.

### GRANT IV—(*Miscellaneous Municipal Purposes.*)

#### Lighting.

114. The amount paid to the contractors alone for the maintenance of lamps was Rs. 95,390 as detailed below as against Rs. 69,382 in the previous year and a further sum of Rs. 1,766 against Rs. 1,539 was spent on the maintenance of these lamps departmentally.

|                 |     |     | Rs.    |
|-----------------|-----|-----|--------|
| Kerosene lamps  | ... | ... | 53,964 |
| Power lamps     | ... | ... | 9,354  |
| Electric lights | ... | ... | 32,072 |
| Total ...       |     |     | 95,390 |

Thus the total cost of maintenance amounted to Rs. 97,156 as against Rs. 70,922 in the previous year. The increase in cost is due to the acceptance of higher rates for kerosene oil lamps and power lights and to the fixing of 868 additional electric lights during the year.

The total amount of fines imposed on the contractors for bad lighting was Rs. 2,319-10-0 against Rs. 4,106 in 1914-15.



There were 5,270 kerosene oil lamps, 39 power lamps and 1,009 electric lights at the beginning of the year. During the year 663 oil lamps and eight electric lights were removed and 65 oil lights and 868 electric lights were newly fixed.

Out of 39 power lights, 19 lights were removed and all of them were refixed at different places at the instance of the Commissioners. Thus at the end of the year there were 4,672 kerosene oil lights, 39 power lamps and 1,869 electric lights in the city.

The various places where 868 new electric lights were fixed and the streets and roads where cables were laid and lights fixed departmentally are shown in Table No. 18-A, Appendix II.

The lighting of these several lamps was inspected by the three lighting inspectors as usual on an average 41 times during the year as against 39 in the previous year.

#### Avenues.

115. The number of the avenue trees was approximately 18,000 at the end of the year under report and of these 2,633 trees were required to be watered.

Arrangements were made in the year to number all the avenue trees in the city, to ascertain the actual number of avenue trees, and to classify them as ordinary and fruit-bearing trees. The numbering is under progress under the supervision of Mr. Houghton, the Honorary Arborist, and the trees will be classified accordingly.

#### Public Parks.

116. *People's Park*:—(1) Receipts.—(a) The right to collect fees at the menagerie was leased for Rs. 607-15-11 per month or Rs. 7,295-15-0 per year against Rs. 567-15-11 per mensem in the previous year. The whole of this sum was collected during the year.

(b) The right of plying pleasure boats on the lake near the menagerie enclosure in the People's Park was leased as usual for three years from 1st April 1913 for Rs. 340 against Rs. 652 on the previous occasion.

(c) The right of reaping the produce of the productive trees in the People's Park for the year ending 31st March 1916 was leased for Rs. 41 against Rs. 40 in the previous year.

(d) The right of keeping a bazaar at the entrance to and inside the menagerie for the year ending 31st March 1916 was leased for Rs. 81 against Rs. 50 in the previous year.

(2) *Charges*:—Food for the animals and birds in the menagerie enclosure was supplied at the following rates:—

Goat's meat at  $5\frac{1}{8}$  lbs. per rupee.

Mutton  $5\frac{1}{4}$  „

Beef  $8\frac{1}{4}$  „

Kids Re. 0-0-3 each.

Ducks Re. 0-0-3 „



Provisions were supplied at a cost of Rs. 469-2-1 per mensem approximately.

The total receipts of the Park including the Government grant of Rs. 2,000 rose from Rs. 10,867-9-6 to Rs. 11,164-8-6 and the expenditure rose from Rs. 22,449-1-7 to Rs. 29,280-3-7.

The increase in expenditure is due (1) to the purchase of animals for the zoological collections at a cost of Rs. 2,559-10-0 ; (2) to the consequent increase in the cost of feeding charges and (3) to the painting done afresh to the menagerie enclosure at a cost of Rs. 2,060-0-5.

(3) The saleable value of the live stock is Rs. 15,517-1-0.

(4) The following animals were presented during the year :—

- 1 young bear.
- 1 Tigress cub.
- 1 Otter
- 2 Sambhur stags.
- 1 Black buck
- 1 Spotted deer.
- 1 Chinkara.

(5) The following animals and birds were purchased during the year at a cost of Rs. 2,559-10-0:—

- 4 White crested cranes.
- 1 Ourangoutang
- 2 Lions, male and female.

(6) 79 cows, 20 buffaloes, 2 ponies, 1 donkey and 5 goats were impounded during the year for grazing in the Park.

117. *Napier Park*:—(1) The right of grazing cattle was leased for Rs. 56 for the year ending 31st March 1916.

(2) The right of reaping the produce of the productive trees was leased for Rs. 32 for the year ending 31st March 1916.

The total income from the Park amounted to Rs. 114-11-2 while its maintenance cost the Corporation Rs. 1392-11-6.

(3) 17 cows, 29 buffaloes and 16 goats were impounded for grazing in this Park without permission.

118. *Robinson Park*:—The receipts and charges of this Park amounted to Rs. 292-12-0 and Rs. 4,944-12-10, respectively, against Rs. 255-15-0 and Rs. 5,124-4-0 in the previous year.

119. *Loane Square*:—This is very popular as a recreation ground. The cost of its maintenance was Rs. 1,360-10-4 against Rs. 1,778-8-7 in the preceding year.

120. The details of the receipts and charges of the above four Parks appear in Appendix II., Tables 20 to 23.



121. The Band of the Madras Volunteer Guards played as usual twice a week on the Marina, four times a month in the People's Park, twice a month in the Robinson Park, four times a month in the Loane Square and twice a month in the High Court compound.

#### Fire.

122. The cost of maintaining the three motor fire engines and the two manual fire engines was Rs. 12,086 as against Rs. 11,293 in the previous year.

There were in all 16 fires during the year as against 32 in the previous year. Of these in only seven cases against 18 in the previous year the engines had actually to pump water ; the remaining cases were all minor affairs for which the engines were not required. The two engines which were received during the year were located in a temporary shed erected at the back of the existing masonry fire engine shed, as the additional masonry sheds were not completed within the year.

The arrival of the two new engines completed the reorganization of the fire brigade started in 1913-14.

#### Grant V (*Supervision and Management*).

123. The expenditure under this head amounted to Rs. 1,71,098-7-7 and was 5.98 per cent. of the total receipts of the year ; the portion of this sum spent on the establishment maintained for the purpose of assessment and collections, amounted to Rs. 92,547-15-7 or 3.24 of the total receipts.

#### Repayment of Debt.

124. The sinking fund account appertaining to the several loans of the Corporation, exclusive of the Government instalment loans of sixteen lakhs of rupees, opened with a balance of Rs. 23,68,700 in Government Promissory Notes and Madras Municipal Debentures and Rs. 6,792-2-8 in cash. During the year under report an allotment of Rs. 98,420 was made to this fund from the general revenues and a sum of Rs. 40,771-12-6 was derived as interest on prior investments made to the fund. An advance of Rs. 2,04,680 was taken from the Bank of Madras on the security of the Government Promissory Notes of the face value of Rs. 2,40,800 and Rs. 46,700 was realised by the sale of the Madras Municipal Debentures of the face value of the same amount belonging to the sinking fund for the Georgetown Drainage Loan of 1885. The total cash receipts of the year amounted to Rs. 3,97,863-15-2. Out of this sum Government Promissory Notes and Madras Municipal Debentures of the face value of Rs. 1,37,200 were purchased at a cost of Rs. 1,29,448-7-6. During the year Rs. 2,93,500 of the Georgetown Drainage Loan of 1885 were repaid to the debenture holders and Madras Municipal Debentures of the face-value of Rs. 6,500 relating to the same loan were cancelled as discharged. The aggregate investments at the close of the year to the credit of this fund stood at Rs. 24,52,700 in Government Promissory Notes and Madras Municipal Debentures with a *minus* cash balance of Rs. 25,584-8-4. The *minus* cash balance under this account was due to a sum



of Rs. 33,206-0-10 having been met from other monies for the repayment of the Georgetown Drainage Loan of 1885 and which will be made good from the general revenues in the coming year. Payments amounting to Rs. 92,069-3-2 were also made during the year towards the Government Instalment Loans. Out of these payments, a sum of Rs. 37,337-6-1 was appropriated by the Accountant-General towards the repayment of the loans and Rs. 54,731-13-1 towards the interest.

#### Refund of other than Current Collections.

125. The total amount refunded during the year was Rs. 26,653-7-3 against an estimate of Rs. 42,000. The details of the refund are given in Appendix I Table No. 4.

#### No. II Account.

126. This account which exhibits the transactions relating to the Corporation Stores and Workshop, the payments made on account of the sinking fund for loans raised in the open market, the security deposits of the Corporation servants and contractors, &c., opened with a balance of Rs. 13,73,600-13-8. The receipts during the year amounted to Rs. 11,67,497-13-7 and the expenditure to Rs. 10,96,642-14-1, leaving a balance of Rs. 14,44,455-13-2 at the close of the year.

#### Workshop.

127. The total value of works turned out in workshops during the year under report was Rs. 1,28,197-5-8 (*vide* Appendix II, Table No. 24) against Rs. 1,32,220-10-9 in 1914-15.

The amount earned in the shape of supervision charges, etc., was Rs. 18,563-4-10 against Rs. 19,816-5-7 in 1914-15.

The expenditure on account of wages of Maistries and contingent charges amounted to Rs. 8,249-9-7 or 6.44 per cent. on the value of works turned out against 5.72 per cent. in the previous year. The cost of establishment including allowances amounted to Rs. 11,818-2-2.

The total expenditure exceeded the receipts by Rs. 1,504-6-11 against a surplus of Rs. 757-6-9 in the previous year.

CORPORATION OF MADRAS,  
2nd August 1916.

J. CHARTRES MOLONY,

*President.*







STATEMENT I.—*Revenues and Receipts of the Municipal Fund of the City of Madras during the Official Year 1915-16.*

| Items.                                                                     | Actuals, 1915-16.       |                        | Budget Estimate for 1915-16. | Revised Estimate for 1915-16. | Actuals, 1914-15. | Explanation of variations between the Actuals and the Revised Estimate of 1915-16. |  |
|----------------------------------------------------------------------------|-------------------------|------------------------|------------------------------|-------------------------------|-------------------|------------------------------------------------------------------------------------|--|
|                                                                            | Details of Minor Heads. | Totals of Major Heads. |                              |                               |                   |                                                                                    |  |
| 1                                                                          | 2                       | 3                      | 4                            | 5                             | 6                 | 7                                                                                  |  |
| <b>I.—CAPITAL ACCOUNT—</b>                                                 |                         |                        |                              |                               |                   |                                                                                    |  |
| 1. Opening Balance—                                                        |                         |                        |                              |                               |                   |                                                                                    |  |
| (a) General Fund                                                           | Rs. 2,19,211 12 3       | A. P.                  | Rs. 1,07,350 0 0             | Rs. 2,19,210 0 0              | Rs. 37,475 1 7    |                                                                                    |  |
| (b) Water and Drainage Fund                                                | 4,95,965 7 8            |                        | 5,20,810 0 0                 | 4,95,960 0 0                  | 9,13,230 8 3      |                                                                                    |  |
| (c) Lighting Fund                                                          | 86,681 10 4             |                        | 18,370 0 0                   | 86,680 0 0                    | —31,626 11 1      |                                                                                    |  |
| Total                                                                      | ...                     | 8,01,848 14 3          | 6,46,530 0 0                 | 8,01,850 0 0                  | 9,19,068 14 9     |                                                                                    |  |
| 3. Revenue derived from Municipal property and powers apart from taxation— |                         |                        |                              |                               |                   |                                                                                    |  |
| (b) Interest on Investments                                                | ...                     | 23,233 9 9             | 25,000 0 0                   | 23,000 0 0                    | 55,030 0 5        |                                                                                    |  |
| 4. Grants and Contributions—                                               |                         |                        |                              |                               |                   |                                                                                    |  |
| (a) From Government—                                                       |                         |                        |                              |                               |                   |                                                                                    |  |
| 1. Improvement of Water-supply and Drainage                                | ...                     | 7,00,000 0 0           | 3,00,000 0 0                 | 7,00,000 0 0                  | 5,00,000 0 0      |                                                                                    |  |
| 6. Extraordinary and Debt—                                                 |                         |                        |                              |                               |                   |                                                                                    |  |
| (a) Loan—                                                                  |                         |                        |                              |                               |                   |                                                                                    |  |
| i. From Government                                                         | ...                     |                        | 7,20,000 0 0                 | ...                           | 5,50,000 0 0      |                                                                                    |  |
| ii. In the market from private individuals                                 | ...                     |                        | 7,20,000 0 0                 | ...                           | 5,50,000 0 0      |                                                                                    |  |
| Total                                                                      | ...                     | ...                    | ...                          | ...                           | ...               |                                                                                    |  |
| Advances recovered—                                                        |                         |                        |                              |                               |                   |                                                                                    |  |
| i. Permanent                                                               | ...                     |                        | 11,000 0 0                   | 32,000 0 0                    | 1,811 12 4        |                                                                                    |  |
| ii. Others                                                                 | 25,024 12 7             |                        | 11,000 0 0                   | 32,000 0 0                    | 1,811 12 4        |                                                                                    |  |
| Total                                                                      | ...                     | 25,024 12 7            | 11,000 0 0                   | 32,000 0 0                    | 1,811 12 4        |                                                                                    |  |
| Transferred from Revenue Account                                           |                         |                        |                              |                               |                   |                                                                                    |  |
| Total, Capital Account                                                     | ...                     | 15,50,107 4            | 7,17,02,830 0 0              | 15,56,850 0 0                 | 20,25,910 11 6    |                                                                                    |  |
| <b>II.—REVENUE ACCOUNT—</b>                                                |                         |                        |                              |                               |                   |                                                                                    |  |
| 1. Opening Balance—                                                        |                         |                        |                              |                               |                   |                                                                                    |  |
| (a) General Fund                                                           | 10,11,526 7 0           |                        | 7,14,890 0 0                 | 10,11,530 0 0                 | 8,19,939 5 1      |                                                                                    |  |
| (b) Water and Drainage Fund                                                | ...                     |                        | ...                          | ...                           | ...               |                                                                                    |  |
| (c) Lighting Fund                                                          | 36,949 12 8             |                        | 33,050 0 0                   | 36,950 0 0                    | 14,186 14 9       |                                                                                    |  |
| Total                                                                      | ...                     | 10,48,476 3 8          | 7,47,940 0 0                 | 10,48,480 0 0                 | 8,34,126 3 10     |                                                                                    |  |



| 2. Municipal Rates and Taxes—                                              |     | 1,72,436 8 4  | 9,25,212 1 0 | 12,607 15 0 | 1,54,000 0 0 | 9,19,650 0 0 | 1,64,000 0 0 | 1,07,931 15 2  | Increase due to war profits made in certain trades. |     |
|----------------------------------------------------------------------------|-----|---------------|--------------|-------------|--------------|--------------|--------------|----------------|-----------------------------------------------------|-----|
| (a) Tax on Arts, &c. (Sec. 120)                                            | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (b) Tax on Buildings and Lands (Sec. 129)                                  | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (c) Tax on Lands (Sec. 141)                                                | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (d) Water and Drainage Tax on Buildings and Lands (Sec. 145)               | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (e) Water and Drainage Tax on Lands (Sec. 146)                             | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (f) Lighting Tax on Buildings and Lands (Sec. 148)                         | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (g) Lighting Tax on Lands (Sec. 149)                                       | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (h) Tax on Vehicles with springs (Sec. 150)                                | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (i) Tax on Animals (Sec. 150)                                              | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (j) Tax on Carts and other Vehicles without springs (Sec. 158)             | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (k) Tolls on Vehicles and Animals entering Municipal Limits (Sec. 164)     | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| Total                                                                      | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| 3. Revenue derived from Municipal property and powers apart from Taxation— |     | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (a) i. Payment for Occupation of Municipal Lands                           | ... | 5,304 10 6    | 36,074 2 2   | ...         | 5,880 0 0    | 28,300 0 0   | 5,190 0 0    | 6,126 7 6      | ...                                                 | ... |
| ii. Rent of Lands and Buildings                                            | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (b) i. Sale-proceeds of Lands                                              | ... | 18,952 0 1    | ...          | ...         | 1,000 0 0    | ...          | 17,000 0 0   | 2,986 4 0      | ...                                                 | ... |
| ii. Esplanades, &c., Grazing Rents                                         | ... | 1,437 2 8     | ...          | ...         | 300 0 0      | ...          | 1,360 0 0    | 2,978 0 0      | ...                                                 | ... |
| iii. Rent of Cart-stand                                                    | ... | 4,598 7 10    | ...          | ...         | 6,000 0 0    | ...          | 5,080 0 0    | 6,000 0 0      | ...                                                 | ... |
| iv. Rent of Municipal Wharf                                                | ... | 1,600 0 0     | ...          | ...         | 1,600 0 0    | ...          | 1,600 0 0    | 1,600 0 0      | ...                                                 | ... |
| v. Produce of Lands, Gardens, &c.—                                         | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (1) People's Park                                                          | ... | 9,164 8 6     | ...          | ...         | 7,250 0 0    | ...          | 8,650 0 0    | 8,867 9 6      | ...                                                 | ... |
| (2) Napier Park                                                            | ... | 114 11 2      | ...          | ...         | 80 0 0       | ...          | 80 0 0       | 135 1 10       | ...                                                 | ... |
| (3) Robinson Park                                                          | ... | 292 12 0      | ...          | ...         | 300 0 0      | ...          | 250 0 0      | 263 15 0       | ...                                                 | ... |
| (4) Grass Farm                                                             | ... | 38,206 2 9    | ...          | ...         | 40,000 0 0   | ...          | 40,000 0 0   | 37,438 1 1     | ...                                                 | ... |
| (5) Office Lawn                                                            | ... | 46 3 8        | ...          | ...         | 10 0 0       | ...          | 30 0 0       | 16 0 0         | ...                                                 | ... |
| vi. Sale-proceeds of old materials                                         | ... | 1,109 2 0     | ...          | ...         | 2,500 0 0    | ...          | 1,500 0 0    | 1,849 12 0     | ...                                                 | ... |
| (c) Conservancy Receipts—                                                  | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| Sale of Rubbish                                                            | ... | 20,643 2 4    | ...          | ...         | 13,000 0 0   | ...          | 16,370 0 0   | 16,957 14 10   | ...                                                 | ... |
| Private Scavenging                                                         | ... | 8,633 15 6    | ...          | ...         | 7,000 0 0    | ...          | 7,210 0 0    | 7,007 3 7      | ...                                                 | ... |
| (d) Hospital Receipts                                                      | ... | 593 8 6       | ...          | ...         | 450 0 0      | ...          | 500 0 0      | 541 0 0        | ...                                                 | ... |
| (e) i. Income from Markets (Sec. 337)—                                     | ... | ...           | ...          | ...         | ...          | ...          | ...          | ...            | ...                                                 | ... |
| (1) Smithfield Market                                                      | ... | 3,668 14 10   | ...          | ...         | 4,530 0 0    | ...          | 4,000 0 0    | 4,525 0 0      | ...                                                 | ... |
| (2) Moore Market                                                           | ... | 33,868 3 6    | ...          | ...         | 32,250 0 0   | ...          | 33,410 0 0   | 32,571 6 4     | ...                                                 | ... |
| Total                                                                      | ... | 1,84,310 12 0 | ...          | ...         | 1,50,450 0 0 | ...          | 1,76,660 0 0 | 1,61,380 15 11 | ...                                                 | ... |
| Carried over                                                               | ... | ...           | 30,73,123 3  | 227,37,840  | 0            | 30,91,640    | 0            | 28,57,776 5 1  | ...                                                 | ... |

Decrease due to non-payment by Government of the increased tax on military buildings under appeal for arrears and current for 4 years, from 1912-13 to 1915-16.

The Board of Municipalities, 1915-16

1915-16



STATEMENT I.—Revenues and Receipts of the Municipal Fund of the City of Madras during the Official Year 1915-16—(Concluded).

| Items. | Actuals, 1915-16.       |       |                        | Budget Estimate for 1915-16. |       | Revised Estimate for 1915-16. |       | Actuals, 1914-15. |       | Explanation of variations between the Actuals and the Revised Estimate of 1915-16. |
|--------|-------------------------|-------|------------------------|------------------------------|-------|-------------------------------|-------|-------------------|-------|------------------------------------------------------------------------------------|
|        | Details of Minor Heads. |       | Totals of Major Heads. | Rs.                          | A. P. | Rs.                           | A. P. | Rs.               | A. P. |                                                                                    |
|        | Rs.                     | A. P. | Rs.                    |                              |       |                               |       |                   |       |                                                                                    |
| 1      | 2                       | 3     | 4                      | 5                            | 6     | 7                             |       |                   |       |                                                                                    |
|        |                         |       |                        |                              |       |                               |       |                   |       |                                                                                    |
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| iii. Other purposes—                                                                  |              |              |               |               |               |               |               |                |                |
|---------------------------------------------------------------------------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|
| (1) Compensation for Tax on places used for sale of Spirituous & Intoxicating Liquors | 13,607 0 0   | 13,610 0 0   | 13,610 0 0    | 13,610 0 0    | 13,610 0 0    | 13,610 0 0    | 13,610 0 0    | 13,607 0 0     | 13,607 0 0     |
| (2) Zoological Collection in People's Park                                            | 2,000 0 0    | 2,000 0 0    | 2,000 0 0     | 2,000 0 0     | 2,000 0 0     | 2,000 0 0     | 2,000 0 0     | 2,000 0 0      | 2,000 0 0      |
| (4) Raja Sir S. Ramasamy Mudaliar Lying-in-Hospital                                   | 300 0 0      | 300 0 0      | 300 0 0       | 300 0 0       | 300 0 0       | 300 0 0       | 300 0 0       | 300 0 0        | 300 0 0        |
| (5) For Malaria investigation                                                         | ...          | ...          | ...           | ...           | ...           | ...           | ...           | 3,00,000 0 0   | 3,00,000 0 0   |
| (6) For acquisition of lands for Washermen Settlement                                 | 10,384 0 0   | 10,390 0 0   | 10,390 0 0    | 10,390 0 0    | 10,390 0 0    | 10,390 0 0    | 10,390 0 0    | ...            | ...            |
| (7) For improvements to Kelly's drain                                                 | 10,223 0 0   | 10,220 0 0   | 10,220 0 0    | 10,220 0 0    | 10,220 0 0    | 10,220 0 0    | 10,220 0 0    | ...            | ...            |
| (8) For acquisition of lands for sewage farm                                          | ...          | ...          | ...           | ...           | ...           | ...           | ...           | 1,25,000 0 0   | 1,25,000 0 0   |
| (9) For construction of model cow-houses                                              | ...          | ...          | ...           | ...           | ...           | ...           | ...           | 50,000 0 0     | 50,000 0 0     |
| Total                                                                                 | ...          | 60,357 0 0   | 40,350 0 0    | 40,350 0 0    | 40,350 0 0    | 40,350 0 0    | 40,350 0 0    | 5,15,350 0 0   | 5,15,350 0 0   |
| 5. Miscellaneous—                                                                     |              |              |               |               |               |               |               |                |                |
| (a) Payment for water for non-domestic purposes                                       | 1,34,482 6 8 | 1,40,000 0 0 | 1,40,000 0 0  | 1,40,000 0 0  | 1,40,000 0 0  | 1,40,000 0 0  | 1,40,000 0 0  | 1,46,585 11 11 | 1,46,585 11 11 |
| (b) Sundry Receipts—Water-works                                                       | 7,500 0 0    | 4,500 0 0    | 4,500 0 0     | 4,500 0 0     | 4,500 0 0     | 4,500 0 0     | 4,500 0 0     | 4,500 0 0      | 4,500 0 0      |
| (c) Sale of Lymph                                                                     | 181 0 0      | 150 0 0      | 150 0 0       | 150 0 0       | 150 0 0       | 150 0 0       | 150 0 0       | 217 4 0        | 217 4 0        |
| (d) Refund from expenditure of previous years                                         | 7,444 9 1    | 1,000 0 0    | 1,000 0 0     | 1,000 0 0     | 1,000 0 0     | 1,000 0 0     | 1,000 0 0     | 6,159 6 6      | 6,159 6 6      |
| (e) Workshop receipts                                                                 | 18,563 4 10  | 20,000 0 0   | 20,000 0 0    | 20,000 0 0    | 20,000 0 0    | 20,000 0 0    | 20,000 0 0    | 19,816 5 7     | 19,816 5 7     |
| (f) Suspense                                                                          | 394 3 9      | ...          | ...           | ...           | ...           | ...           | ...           | ...            | ...            |
| (g) Other Items                                                                       | 28,238 9 0   | 10,000 0 0   | 10,000 0 0    | 10,000 0 0    | 10,000 0 0    | 10,000 0 0    | 10,000 0 0    | 37,700 1 11    | 37,700 1 11    |
| Total                                                                                 | ...          | 1,96,804 1 4 | 1,75,650 0 0  | 1,75,650 0 0  | 1,75,650 0 0  | 1,75,650 0 0  | 1,75,650 0 0  | 2,14,978 13 11 | 2,14,978 13 11 |
| 6. Extraordinary and Debt—                                                            |              |              |               |               |               |               |               |                |                |
| (a) Realization of Sinking Fund—Interest on Water-works Loan of 1869-73               | ...          | 46,110 11 11 | 46,200 0 0    | 46,200 0 0    | 46,200 0 0    | 46,200 0 0    | 46,200 0 0    | 45,487 0 0     | 45,487 0 0     |
| Total                                                                                 | ...          | 46,110 11 11 | 46,200 0 0    | 46,200 0 0    | 46,200 0 0    | 46,200 0 0    | 46,200 0 0    | 45,487 0 0     | 45,487 0 0     |
| Advances recovered—                                                                   |              |              |               |               |               |               |               |                |                |
| i. Permanent                                                                          | 84 4 3       | ...          | ...           | ...           | ...           | ...           | ...           | 90 0 0         | 135 0 0        |
| ii. Others                                                                            | 28,654 4 3   | ...          | 5,000 0 0     | 5,000 0 0     | 5,000 0 0     | 5,000 0 0     | 5,000 0 0     | 41,326 10 8    | 41,326 10 8    |
| Total                                                                                 | ...          | 28,738 8 6   | 5,000 0 0     | 5,000 0 0     | 5,000 0 0     | 5,000 0 0     | 5,000 0 0     | 41,461 10 8    | 41,461 10 8    |
| Total Revenue Account                                                                 | ...          | 39,08,512 6  | 9,34,39,790 0 | 9,34,39,790 0 | 9,34,39,790 0 | 9,34,39,790 0 | 9,34,39,790 0 | 41,45,523 8 8  | 41,45,523 8 8  |
| Grand Total                                                                           | ...          | 54,58,619 11 | 4,51,42,320 0 | 4,51,42,320 0 | 4,51,42,320 0 | 4,51,42,320 0 | 4,51,42,320 0 | 61,71,434 4 2  | 61,71,434 4 2  |

Decrease due to outstandings due from Government, Railway Companies and Mills.



STATEMENT II.—Expenditure from the Municipal Fund of the City of Madras for the Official Year 1915-16.

| Items.                                             | Actuals, 1915-16. |               |                 |               |                |                                                                                                                                               | Budget Estimate for 1915-16. | Revised Estimate for 1915-16. | Actuals, 1914-15. | Explanation of variations between the Actuals and the Revised Estimate of 1915-16. |   |
|----------------------------------------------------|-------------------|---------------|-----------------|---------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------|------------------------------------------------------------------------------------|---|
|                                                    | Details of        |               | Totals of       |               | 4              | 5                                                                                                                                             |                              |                               |                   |                                                                                    | 6 |
|                                                    | Minor Heads.      | Major Heads.  | 2               | 3             |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| 1                                                  | 2                 | 3             | 4               | 5             | 6              | 7                                                                                                                                             |                              |                               |                   |                                                                                    |   |
| <b>I. CAPITAL ACCOUNT—</b>                         |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| <b>GRANT I.—(Public Works)—</b>                    |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| <b>1. New Works—</b>                               |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| (b) Buildings                                      | 1,25,852 0 3      |               | 1,68,280 0 0    | 1,60,070 0 0  | 1,88,263 5 4   | } <i>Vide para. 64 of the report.</i><br>Estimates and actuals do not differ very much considering the abnormal conditions caused by the war. |                              |                               |                   |                                                                                    |   |
| (c) Drainage                                       | 5,87,011 15 3     |               | 8,63,200 0 0    | 6,76,850 0 0  | 2,31,175 5 6   |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| (d) Water-supply                                   | 4,23,431 6 7      |               | 3,20,200 0 0    | 4,29,620 0 0  | 5,78,699 9 8   |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Total ...                                          | ...               | 11,36,295 6   | 1,13,51,660 0 0 | 12,66,540 0 0 | 9,98,138 4 6   |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| <b>3. Establishment—</b>                           |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| i. Drainage                                        | 76,841 5 1        |               | 1,59,410 0 0    | 81,130 0 0    | 69,356 14 9    | } Decrease due to restriction of works and staff owing to the financial stringency.                                                           |                              |                               |                   |                                                                                    |   |
| ii. Water-supply                                   | 39,721 6 11       |               | 52,370 0 0      | 48,080 0 0    | 56,222 7 4     |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| iii. Allowances                                    | 3,645 1 8         |               | 7,570 0 0       | 6,400 0 0     | 4,647 13 7     |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Total ...                                          | ...               | 1,20,207 13 8 | 2,19,350 0 0    | 1,35,610 0 0  | 1,30,227 3 8   |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Total Grant I ...                                  | ...               | 12,56,503 3   | 915,71,010 0 0  | 14,02,150 0 0 | 11,28,365 8 2  |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| <b>GRANT IV.—Miscellaneous Municipal Purposes—</b> |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| 1. Lighting—                                       |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Additional Lamps                                   | ...               | 1,37,510 7 1  | 1,20,000 0 0    | 1,38,310 0 0  | 61,691 10 7    |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Advances Recoverable—                              |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| i. Permanent                                       | 1,500 0 0         |               |                 |               | 500 0 0        |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| ii. Others                                         | 12,117 4 3        |               |                 | 5000 0 0      | 33,504 10 6    |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Total ...                                          | ...               | 13,617 4 3    |                 | 5000 0 0      | 34,004 10 6    |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| Total, Capital Account ...                         | ...               | 14,07,630 15  | 1,16,91,010 0 0 | 15,45,460 0 0 | 12,24,061 13 3 |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| <b>II. REVENUE ACCOUNT—</b>                        |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| <b>GRANT I.—(Public Works)—</b>                    |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| 1. New Works—                                      |                   |               |                 |               |                |                                                                                                                                               |                              |                               |                   |                                                                                    |   |
| (c) Communications                                 | 31,416 9 4        | ...           | 67,150 0 0      | 56,600 0 0    | 44,715 5 0     | Decrease due to some of the acquisition proposals having been withdrawn with a view to economy.                                               |                              |                               |                   |                                                                                    |   |

|                         |           |     |     |           |     |     |           |   |   |           |    |    |                                                                                                                                             |    |    |
|-------------------------|-----------|-----|-----|-----------|-----|-----|-----------|---|---|-----------|----|----|---------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| (b) Buildings           | 1,01,178  | 9   | 4   | 1,30,760  | 0   | 0   | 1,38,670  | 0 | 0 | 95,907    | 11 | 0  | Vide para. 54 of the report. Decrease due to works completed and in progress not having been paid for during the year.                      |    |    |
| (c) Drainage            | 12,360    | 10  | 1   | 14,000    | 0   | 0   | 16,400    | 0 | 0 | 10,857    | 5  | 0  |                                                                                                                                             |    |    |
| (d) Water-supply        | 14,167    | 8   | 1   | 15,000    | 0   | 0   | 16,250    | 0 | 0 | 11,430    | 10 | 3  |                                                                                                                                             |    |    |
| (e) Miscellaneous       | 13,655    | 3   | 2   | 1,27,200  | 0   | 0   | 19,630    | 0 | 0 | 1,99,748  | 14 | 11 |                                                                                                                                             |    |    |
| Total ...               | ...       | ... | ... | 1,72,778  | 8   | 0   | 3,54,110  | 0 | 0 | 2,47,610  | 0  | 0  | 3,62,659                                                                                                                                    | 14 | 2  |
| 2. Repairs—             |           |     |     |           |     |     |           |   |   |           |    |    |                                                                                                                                             |    |    |
| (a) Communications      | 3,89,552  | 13  | 8   |           |     |     | 3,86,900  | 0 | 0 | 3,60,840  | 0  | 0  | 2,10,673                                                                                                                                    | 4  | 7  |
| (b) Buildings           | 27,611    | 9   | 6   |           |     |     | 31,070    | 0 | 0 | 43,560    | 0  | 0  | 20,982                                                                                                                                      | 4  | 3  |
| (c) Drainage—           |           |     |     |           |     |     |           |   |   |           |    |    | Decrease due to some of the works having been in progress and to works completed not having been paid for.                                  |    |    |
| Repairs to Works, &c.   | 3,52,786  | 14  | 10  |           |     |     | 3,64,300  | 0 | 0 | 3,55,790  | 0  | 0  | 3,16,968                                                                                                                                    | 11 | 2  |
| Establishment           | 54,535    | 14  | 5   |           |     |     | 67,490    | 0 | 0 | 60,660    | 0  | 0  | 52,785                                                                                                                                      | 0  | 6  |
| Overtime                | 411       | 2   |     |           |     |     | 300       | 0 | 0 | 156       | 0  | 0  | 159                                                                                                                                         | 13 | 0  |
| Allowances              | 1,978     | 16  | 7   |           |     |     | 3,470     | 0 | 0 | 2,700     | 0  | 0  | 1,918                                                                                                                                       | 1  | 1  |
| (d) Water-supply—       |           |     |     |           |     |     |           |   |   |           |    |    | Increase due to an under estimate of coal consumption based on maker's guarantees but mainly to the large consumption of water in the City. |    |    |
| Repairs to Works, &c.   | 1,32,715  | 9   | 9   |           |     |     | 74,690    | 0 | 0 | 1,26,570  | 0  | 0  | 65,318                                                                                                                                      | 3  | 6  |
| Establishment           | 18,481    | 12  | 7   |           |     |     | 19,170    | 0 | 0 | 21,210    | 0  | 0  | 15,003                                                                                                                                      | 9  | 3  |
| Allowances              | 1,423     | 1   | 4   |           |     |     | 1,870     | 0 | 0 | 1,640     | 0  | 0  | 1,102                                                                                                                                       | 10 | 0  |
| (e) Miscellaneous       | 871       | 12  | 10  |           |     |     | 1,300     | 0 | 0 | 1,050     | 0  | 0  | 1,144                                                                                                                                       | 8  | 10 |
| Total ...               | ...       | ... | ... | 9,80,236  | 3   | 8   | 9,50,560  | 0 | 0 | 9,74,170  | 0  | 0  | 6,86,056                                                                                                                                    | 2  | 2  |
| 3. Establishment—       |           |     |     |           |     |     |           |   |   |           |    |    |                                                                                                                                             |    |    |
| (a) General             | 48,312    | 15  | 10  |           |     |     | 51,250    | 0 | 0 | 51,000    | 0  | 0  | 45,356                                                                                                                                      | 15 | 7  |
| Allowances              | 4,216     | 9   | 7   |           |     |     | 4,800     | 0 | 0 | 4,400     | 0  | 0  | 4,244                                                                                                                                       | 10 | 11 |
| (b) Steam Road Roller—  |           |     |     |           |     |     |           |   |   |           |    |    | Increase due to payment of arrears works.                                                                                                   |    |    |
| Establishment           | 4,957     | 4   | 2   |           |     |     | 5,700     | 0 | 0 | 5,330     | 0  | 0  | 4,882                                                                                                                                       | 8  | 9  |
| Overtime                | 40        | 7   | 11  |           |     |     | 200       | 0 | 0 | 100       | 0  | 0  | 20                                                                                                                                          | 5  | 3  |
| Total ...               | ...       | ... | ... | 57,527    | 5   | 6   | 61,950    | 0 | 0 | 69,830    | 0  | 0  | 54,504                                                                                                                                      | 8  | 6  |
| 4. Tools and Plant      |           |     |     |           |     |     |           |   |   |           |    |    |                                                                                                                                             |    |    |
|                         | ...       | ... | ... | 17,673    | 13  | 10  | 26,000    | 0 | 0 | 18,850    | 0  | 0  | 7,589                                                                                                                                       | 13 | 9  |
| 5. Miscellaneous—       |           |     |     |           |     |     |           |   |   |           |    |    |                                                                                                                                             |    |    |
| (a) Stationery          | 2,239     | 6   | 0   |           |     |     | 3,000     | 0 | 0 | 3,000     | 0  | 0  | 2,771                                                                                                                                       | 14 | 10 |
| (b) Printing Charges    | 4,218     | 2   | 2   |           |     |     | 2,500     | 0 | 0 | 2,800     | 0  | 0  | 1,669                                                                                                                                       | 8  | 0  |
| (c) Advertising Charges | 2,170     | 11  | 0   |           |     |     | 4,240     | 0 | 0 | 2,500     | 0  | 0  | 2,961                                                                                                                                       | 0  | 2  |
| Total ...               | 8,628     | 3   | 2   | ...       | ... | ... | 9,740     | 0 | 0 | 8,300     | 0  | 0  | 7,402                                                                                                                                       | 7  | 0  |
| Carried over ...        | 12,28,215 | 15  | 0   | 13,92,629 | 0   | 0   | 13,01,160 | 0 | 0 | 11,10,810 | 6  | 7  |                                                                                                                                             |    |    |



STATEMENT II.—Expenditure from the Municipal Fund of the City of Madras for the Official Year 1915-16—(Continued).

| Items.                                                   | Actuals, 1915-16.       |       |                        |       | Budget Estimate for 1915-16. | Revised Estimate for 1915-16. | Actuals, 1914-15. | 7    |
|----------------------------------------------------------|-------------------------|-------|------------------------|-------|------------------------------|-------------------------------|-------------------|------|
|                                                          | Details of Minor Heads. |       | Totals of Major Heads. |       |                              |                               |                   |      |
|                                                          | RS.                     | A. P. | RS.                    | A. P. |                              |                               |                   |      |
| GRANT I.—(Concluded).                                    |                         |       |                        |       |                              |                               |                   |      |
| 5. Miscellaneous—(Continued).                            |                         |       |                        |       |                              |                               |                   |      |
| Brought forward ...                                      | ...                     | ...   | 12,28,215              | 15 0  | 13,92,620                    | 0                             | 11,10,810         | 6 7  |
| (d) Law Charges and Stamp Duties                         | 8,628                   | 3 2   |                        |       | 9,740                        | 0                             | 7,402             | 17 0 |
| (e) Office Furniture                                     | 641                     | 13 9  |                        |       | 1,500                        | 0                             | 1,875             | 3 9  |
| (f) Contingent                                           | 1,151                   | 8 11  |                        |       | 2,000                        | 0                             | 1,280             | 7 0  |
| (g) Water-works Contingent                               | 2,227                   | 1 6   |                        |       | 1,600                        | 0                             | 1,859             | 15 2 |
| (h) Labour-Punkah                                        | 1,087                   | 3 1   |                        |       | 1,300                        | 0                             | 1,450             | 0    |
| (i) Clothing for Peons and Badges for Road Coolies       | ...                     | ...   |                        |       | ...                          | ...                           | 1,097             | 5 1  |
| (j) Inspection of dangerous Buildings                    | 1,330                   | 15 2  |                        |       | 2,500                        | 0                             | 7 0               | 0    |
| Total ...                                                | ...                     | ...   | 15,066                 | 18 7  | 18,740                       | 0                             | 2,070             | 14 4 |
| Total, Grant I ...                                       | ...                     | ...   | 12,43,282              | 12 7  | 14,11,360                    | 0                             | 10 4              | 10   |
| GRANT II.—(Education)—                                   |                         |       |                        |       |                              |                               |                   |      |
| 1. Municipal Schools—                                    |                         |       |                        |       |                              |                               |                   |      |
| (a) Establishment                                        | 19,531                  | 3 3   |                        |       | 22,310                       | 0                             | 15,244            | 7 2  |
| (b) Allowances                                           | 540                     | 5 8   |                        |       | 510                          | 0                             | 539               | 4 7  |
| (c) Other Expenses                                       | 9,719                   | 12 0  |                        |       | 16,520                       | 0                             | 10,809            | 9 0  |
| (d) Labour                                               | 840                     | 1 8   |                        |       | 1,030                        | 0                             | ...               | ...  |
| Total ...                                                | ...                     | ...   | 30,631                 | 6 7   | 40,400                       | 0                             | 26,593            | 4 9  |
| 2. Miscellaneous—                                        |                         |       |                        |       |                              |                               |                   |      |
| (a) Teachers' Training Grants                            | 1,169                   | 15 11 |                        |       | 1,200                        | 0                             | ...               | ...  |
| (b) Contributions to Madras Teachers' Guild              | 500                     | 0 0   |                        |       | 250                          | 0                             | 798               | 11 8 |
| Total ...                                                | ...                     | ...   | 1,669                  | 15 11 | 1,450                        | 0                             | 798               | 11 8 |
| Total, Grant II ...                                      | ...                     | ...   | 32,301                 | 6 6   | 41,850                       | 0                             | 27,392            | 0 5  |
| GRANT III.—(Sanitation and Medical Services)—            |                         |       |                        |       |                              |                               |                   |      |
| 1. Hospitals and Dispensaries—                           |                         |       |                        |       |                              |                               |                   |      |
| Royapettah Hospital—                                     |                         |       |                        |       |                              |                               |                   |      |
| (a) Establishment                                        | 11,349                  | 12 11 |                        |       | 13,220                       | 0                             | 11,457            | 9 9  |
| (b) Allowances                                           | 150                     | 0 0   |                        |       | 240                          | 0                             | 183               | 0 0  |
| (c) Medicines and Supplies                               | 25,468                  | 9 2   |                        |       | 22,750                       | 0                             | 24,353            | 5 8  |
| (d) Diets of Patients                                    | 9,620                   | 12 6  |                        |       | 9,000                        | 0                             | 8,208             | 1 6  |
| Decrease due to non-employment of European Nurses.       |                         |       |                        |       |                              |                               |                   |      |
| Increase due to rise in the price of European medicines. |                         |       |                        |       |                              |                               |                   |      |
| Savings.                                                 |                         |       |                        |       |                              |                               |                   |      |

Increase due to unforeseen miscellaneous changes.

Savings due to unexpended appropriated amounts on account of non-compliance of tenders by the contractors.

Savings.

Decrease due to opening of new schools late in the year.

Decrease due to non-employment of European Nurses.

Increase due to rise in the price of European medicines.

Savings.

| Increase due to rise in the price of European medicines. |        |      |           |              |          |           |          |           |      |
|----------------------------------------------------------|--------|------|-----------|--------------|----------|-----------|----------|-----------|------|
|                                                          |        |      |           |              |          |           |          |           |      |
| ii. George Town Dispensary—                              | 4,878  | 3 9  | 5,040     | 0 0          | 5,040    | 0 0       | 4,380    | 14 3      |      |
| (a) Establishment                                        | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (b) Allowances                                           | 7,610  | 7 2  | 6,000     | 0 0          | 7,300    | 0 0       | 6,643    | 4 9       |      |
| (c) Medicines and supplies                               | 3,372  | 4 0  | 3,250     | 0 0          | 3,390    | 0 0       | 3,123    | 4 1       |      |
| iii. Baliah Naidia Dispensary—                           | 30     | 0 0  | 30        | 0 0          | 30       | 0 0       | 44       | 6 0       |      |
| (a) Establishment                                        | 6,089  | 7 8  | 4,620     | 0 0          | 6,100    | 0 0       | 4,845    | 5 8       |      |
| (b) Allowances                                           | 2,106  | 1 4  | 2,050     | 0 0          | 2,110    | 0 0       | 2,054    | 9 8       |      |
| (c) Medicines and supplies                               | 2,026  | 6 6  | 1,800     | 0 0          | 1,910    | 0 0       | 1,712    | 8 0       |      |
| iv. Chintadripet Dispensary—                             | 3,117  | 14 1 | 2,980     | 0 0          | 3,150    | 0 0       | 2,903    | 6 4       |      |
| (a) Establishment                                        | 150    | 0 0  | 120       | 0 0          | 150      | 0 0       | 120      | 0 0       |      |
| (b) Allowances                                           | 6,361  | 2 6  | 3,440     | 0 0          | 5,090    | 0 0       | 7,007    | 1 5       |      |
| (c) Medicines and supplies                               | 632    | 3 8  | ...       | ...          | 900      | 0 0       | ...      | ...       |      |
| (d) Training of Midwives                                 | 1,951  | 8 9  | 2,020     | 0 0          | 1,950    | 0 0       | 1,823    | 1 2       |      |
| vi. Washermanpet Dispensary—                             | 2,035  | 8 9  | 2,200     | 0 0          | 2,200    | 0 0       | 3,691    | 1 2       |      |
| (a) Establishment                                        | 36     | 0 0  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (b) Medicines and supplies                               | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (c) Allowances                                           | ...    | ...  | 78,760    | 0 0          | 86,670   | 0 0       | 82,530   | 15 0      |      |
| Total                                                    | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| 2. (a) Contribution to Provincial Funds—                 | 20,000 | 0 0  | 20,000    | 0 0          | 20,000   | 0 0       | 20,000   | 0 0       |      |
| Hospitals                                                | 1,100  | 0 0  | 1,100     | 0 0          | 1,100    | 0 0       | 1,600    | 0 0       |      |
| (b) Contribution for St. Thomé Dispensary                | 240    | 0 0  | 240       | 0 0          | 240      | 0 0       | 240      | 0 0       |      |
| (c) Do.                                                  | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (d) Victoria Caste and Gosha Hospital                    | 780    | 0 0  | 1,000     | 0 0          | 1,000    | 0 0       | 1,000    | 0 0       |      |
| (e) Do.                                                  | ...    | ...  | 780       | 0 0          | 780      | 0 0       | 780      | 0 0       |      |
| (f) Do.                                                  | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (g) Do.                                                  | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (h) Do.                                                  | 1,500  | 0 0  | 1,500     | 0 0          | 1,500    | 0 0       | 1,500    | 0 0       |      |
| (i) Do.                                                  | 250    | 0 0  | 250       | 0 0          | 250      | 0 0       | 250      | 0 0       |      |
| (j) Do.                                                  | 600    | 0 0  | 600       | 0 0          | 600      | 0 0       | 600      | 0 0       |      |
| (k) Do.                                                  | 500    | 0 0  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (l) Do.                                                  | 100    | 0 0  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (m) Do.                                                  | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| (n) Do.                                                  | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| Total                                                    | ...    | ...  | 25,070    | 0 0          | 26,070   | 0 0       | 27,239   | 7 6       |      |
| 3. Vaccination—                                          | 11,746 | 7 10 | 11,746    | 0 0          | 11,650   | 0 0       | 11,379   | 5 1       |      |
| (a) Establishment                                        | 25     | 5 0  | 20        | 0 0          | 30       | 0 0       | 9        | 8 6       |      |
| (b) Allowances                                           | 2,613  | 6 10 | 2,560     | 0 0          | 2,600    | 0 0       | 2,819    | 0 3       |      |
| (c) Contingencies                                        | ...    | ...  | ...       | ...          | ...      | ...       | ...      | ...       |      |
| Total                                                    | ...    | ...  | 14,384    | 3 8          | 14,280   | 0 0       | 14,407   | 13 10     |      |
| Carried over                                             | ...    | ...  | 1,26,356  | 10 5         | 1,18,810 | 0 0       | 1,24,178 | 4 4       |      |
| Total                                                    | ...    | ...  | 12,75,584 | 3 114,53,210 | 0 0      | 12,62,340 | 0 0      | 11,53,795 | 10 2 |

Claim not preferred, and paid for within the year

Do.



STATEMENT II.—Expenditure from the Municipal Fund of the City of Madras for the Official year 1915-16—(Continued).

| Items.                                                                                                                                                                                                       | Actuals, 1915-16.       |       |                        |       |                              |       |                               |       |                   |       | Explanation of variations between the Actuals and the Revised Estimate of 1915-16. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------|------------------------|-------|------------------------------|-------|-------------------------------|-------|-------------------|-------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                              | Details of Minor Heads. |       | Totals of Major Heads. |       | Budget Estimate for 1915-16. |       | Revised Estimate for 1915-16. |       | Actuals, 1914-15. |       |                                                                                    |
|                                                                                                                                                                                                              | Rs.                     | A. P. | Rs.                    | A. P. | Rs.                          | A. P. | Rs.                           | A. P. | Rs.               | A. P. |                                                                                    |
| 1                                                                                                                                                                                                            | 2                       | 3     | 4                      | 5     | 6                            | 7     |                               |       |                   |       |                                                                                    |
| <b>GRANT III.—(Continued).</b>                                                                                                                                                                               |                         |       |                        |       |                              |       |                               |       |                   |       |                                                                                    |
| <b>4. Registration of Births and Deaths—</b>                                                                                                                                                                 |                         |       |                        |       |                              |       |                               |       |                   |       |                                                                                    |
| (a) Establishment                                                                                                                                                                                            | 16,225                  | 1 2   | 14,532                 | 10 5  | 14,532                       | 10 5  | 13,623                        | 10 2  | 11,537            | 10 2  |                                                                                    |
| Allowances                                                                                                                                                                                                   | 80                      | 0 0   | 240                    | 0 0   | 240                          | 0 0   | 80                            | 0 0   | 210               | 0 0   |                                                                                    |
| (b) Contingencies                                                                                                                                                                                            | 2,967                   | 4 0   | 2,300                  | 0 0   | 2,300                        | 0 0   | 2,300                         | 0 0   | 2,761             | 11 8  |                                                                                    |
| Total                                                                                                                                                                                                        | 19,272                  | 5 2   | 17,072                 | 5 2   | 17,072                       | 0 0   | 18,790                        | 0 0   | 19,715            | 8 6   |                                                                                    |
| <b>5. Conservancy—</b>                                                                                                                                                                                       |                         |       |                        |       |                              |       |                               |       |                   |       |                                                                                    |
| (a) Establishment—General                                                                                                                                                                                    | 65,099                  | 9 10  | 68,290                 | 0 0   | 68,290                       | 0 0   | 67,970                        | 0 0   | 68,311            | 13 10 | Savings.                                                                           |
| Allowances                                                                                                                                                                                                   | 3,398                   | 12 11 | 4,000                  | 0 0   | 4,000                        | 0 0   | 3,620                         | 0 0   | 3,468             | 1 10  | Do.                                                                                |
| (b) Hire of Scavengers                                                                                                                                                                                       | 48,037                  | 7 7   | 55,560                 | 0 0   | 55,560                       | 0 0   | 50,590                        | 0 0   | 40,120            | 12 6  | Do.                                                                                |
| (c) Private Scavenging                                                                                                                                                                                       | 2,406                   | 11 2  | 2,580                  | 0 0   | 2,580                        | 0 0   | 2,530                         | 0 0   | 2,358             | 10 4  | Do.                                                                                |
| (d) Maintenance of Bullocks—Establishment                                                                                                                                                                    | 4,900                   | 5 4   | 5,000                  | 0 0   | 5,000                        | 0 0   | 4,910                         | 0 0   | 4,627             | 3 3   |                                                                                    |
| Allowances                                                                                                                                                                                                   | 220                     | 0 0   | 440                    | 0 0   | 440                          | 0 0   | 320                           | 0 0   | 234               | 13 5  |                                                                                    |
| Labor, Fodder, contingencies, &c.                                                                                                                                                                            | 1,63,855                | 7 8   | 1,90,520               | 0 0   | 1,90,520                     | 0 0   | 1,74,350                      | 0 0   | 1,45,039          | 1 10  | Do.                                                                                |
| (e) Incinerator—Establishment                                                                                                                                                                                | 1,060                   | 11 7  | 1,110                  | 0 0   | 1,110                        | 0 0   | 1,110                         | 0 0   | 1,055             | 12 1  | Do.                                                                                |
| Labor                                                                                                                                                                                                        | 20,970                  | 0 6   | 30,500                 | 0 0   | 30,500                       | 0 0   | 24,940                        | 0 0   | 18,996            | 7 8   |                                                                                    |
| (f) Night-soil Depôts and Shoots—Establishment                                                                                                                                                               | 1,564                   | 11 8  | 1,370                  | 0 0   | 1,370                        | 0 0   | 1,630                         | 0 0   | 1,379             | 10 2  |                                                                                    |
| Labor                                                                                                                                                                                                        | 12,593                  | 10 5  | 13,550                 | 0 0   | 13,550                       | 0 0   | 12,110                        | 0 0   | 8,944             | 10 7  |                                                                                    |
| (g) Sauting Latrines                                                                                                                                                                                         | 3,034                   | 12 9  | 2,000                  | 0 0   | 2,000                        | 0 0   | 5,000                         | 0 0   | 989               | 15 0  | Do.                                                                                |
| (h) Maintenance of Grass Farm—Establishment                                                                                                                                                                  | 3,658                   | 2 4   | 3,540                  | 0 0   | 3,540                        | 0 0   | 3,660                         | 0 0   | 3,449             | 2 3   |                                                                                    |
| Labor                                                                                                                                                                                                        | 1,08,928                | 12 3  | 21,500                 | 0 0   | 21,500                       | 0 0   | 23,000                        | 0 0   | 81,182            | 1 2   |                                                                                    |
| (i) Rent of Lorry Stations and Cart Depôts                                                                                                                                                                   | 326                     | 0 0   | 300                    | 0 0   | 300                          | 0 0   | 100                           | 0 0   | 255               | 0 0   |                                                                                    |
| (j) Burial and Burning Grounds—Labor                                                                                                                                                                         | 2,057                   | 6 6   | 3,000                  | 0 0   | 3,000                        | 0 0   | 2,590                         | 0 0   | 1,872             | 0 5   |                                                                                    |
| (k) Repair of Carts, Boats and Buckets                                                                                                                                                                       | 20,553                  | 10 10 | 15,900                 | 0 0   | 15,900                       | 0 0   | 15,400                        | 0 0   | 17,662            | 13 5  |                                                                                    |
| (l) Contingent—General                                                                                                                                                                                       | 9,721                   | 0 4   | 6,000                  | 0 0   | 6,000                        | 0 0   | 6,000                         | 0 0   | 4,992             | 7 8   |                                                                                    |
| (m) Epidemic Charges—                                                                                                                                                                                        |                         |       |                        |       |                              |       |                               |       |                   |       |                                                                                    |
| Plague                                                                                                                                                                                                       | 19,564                  | 10 6  | 2,093                  | 0 0   | 2,093                        | 0 0   | 19,950                        | 0 0   |                   |       |                                                                                    |
| Cholera and Small-pox                                                                                                                                                                                        | 14,955                  | 1 9   | 11,000                 | 0 0   | 11,000                       | 0 0   | 13,300                        | 0 0   | 68,876            | 4 9   |                                                                                    |
| Malaria                                                                                                                                                                                                      | 7,867                   | 2 6   | 1,43,880               | 0 0   | 1,43,880                     | 0 0   | 1,30,400                      | 0 0   |                   |       |                                                                                    |
| Increase due to the cost of improvements to the farm during the 3 years ending 1915-16 met from the Malaria grant now debited to this head in accordance with G.O., No. 1798, M.S., dated 27th October 1915. |                         |       |                        |       |                              |       |                               |       |                   |       |                                                                                    |
| Increase due to repairs to motor lorries for the last 3 years met from the Malaria grant now debited to this head.                                                                                           |                         |       |                        |       |                              |       |                               |       |                   |       |                                                                                    |

Increase due to the cost of improvements to the farm during the 3 years ending 1915-16 met from the Malaria grant now debited to this head in accordance with G.O., No. 1798, M.S., dated 27th October 1915.

Increase due to repairs to motor lorries for the last 3 years met from the Malaria grant now debited to this head.

|                                              |        |     |     |           |          |     |           |          |     |           |          |
|----------------------------------------------|--------|-----|-----|-----------|----------|-----|-----------|----------|-----|-----------|----------|
| (a) Road Watering—                           |        |     |     |           |          |     |           |          |     |           |          |
| Establishment                                |        |     |     |           |          |     |           |          |     |           |          |
| Labor                                        |        |     |     |           |          |     |           |          |     |           |          |
| (c) Tools and Plant                          |        |     |     |           |          |     |           |          |     |           |          |
| ...                                          | 2,525  | 6   | 4   | 2,400     | 0        | 0   | 2,400     | 0        | 0   | 2,400     | 3        |
| ...                                          | 16,245 | 2   | 7   | 21,450    | 0        | 0   | 18,500    | 0        | 0   | 17,148    | 1        |
| ...                                          | 52,819 | 2   | 8   | 19,000    | 0        | 0   | 30,000    | 0        | 0   | 19,997    | 2        |
| Total                                        | ...    | ... | ... | ...       | 5,86,975 | 0   | 0         | 6,43,030 | 0   | 0         | 7,13,719 |
| 6. Miscellaneous—                            |        |     |     |           |          |     |           |          |     |           |          |
| (a) Stationery                               |        |     |     |           |          |     |           |          |     |           |          |
| ...                                          | 1,080  | 6   | 4   | 1,640     | 0        | 0   | 1,800     | 0        | 0   | 2,064     | 11       |
| ...                                          | 3,657  | 10  | 6   | 1,500     | 0        | 0   | 1,900     | 0        | 0   | 1,637     | 8        |
| ...                                          | 557    | 14  | 0   | 800       | 0        | 0   | 700       | 0        | 0   | 370       | 7        |
| ...                                          | 911    | 0   | 0   | 300       | 0        | 0   | 180       | 0        | 0   | 119       | 10       |
| ...                                          | 126    | 15  | 5   | 800       | 0        | 0   | 600       | 0        | 0   | 792       | 9        |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| ...                                          | 427    | 5   | 5   | 1,600     | 0        | 0   | 1,020     | 0        | 0   | 1,447     | 5        |
| ...                                          | ...    | ... | ... | 120       | 0        | 0   | 40        | 0        | 0   | 40        | 0        |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| Total                                        | ...    | ... | ... | 5,859     | 14       | 8   | 6,760     | 0        | 0   | 6,522     | 3        |
| Total, Grant III...                          |        |     |     |           |          |     |           |          |     |           |          |
| GRANT IV.—Miscellaneous Municipal Purposes.) |        |     |     |           |          |     |           |          |     |           |          |
| 1. Lighting—                                 |        |     |     |           |          |     |           |          |     |           |          |
| Establishment                                |        |     |     |           |          |     |           |          |     |           |          |
| Allowance                                    |        |     |     |           |          |     |           |          |     |           |          |
| Labor                                        |        |     |     |           |          |     |           |          |     |           |          |
| Maintenance                                  |        |     |     |           |          |     |           |          |     |           |          |
| ...                                          | 1,744  | 5   | 4   | 1,750     | 0        | 0   | 1,760     | 0        | 0   | 1,112     | 12       |
| ...                                          | 177    | 13  | 6   | 180       | 0        | 0   | 80        | 0        | 0   | 578       | 6        |
| ...                                          | 8,076  | 9   | 9   | 7,900     | 0        | 0   | 8,210     | 0        | 0   | 5,409     | 11       |
| ...                                          | 97,185 | 8   | 3   | 75,000    | 0        | 0   | 92,000    | 0        | 0   | 70,921    | 11       |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| ...                                          | 646    | 15  | 3   | 1,000     | 0        | 0   | 50,600    | 0        | 0   | 552       | 5        |
| ...                                          | 6,342  | 12  | 3   | 5,000     | 0        | 0   | 8,400     | 0        | 0   | 3,040     | 3        |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| Total                                        | ...    | ... | ... | 1,14,144  | 0        | 3   | 90,830    | 0        | 0   | 81,685    | 3        |
| 2. Markets and Slaughter-houses—             |        |     |     |           |          |     |           |          |     |           |          |
| (a) Smithfield Market—                       |        |     |     |           |          |     |           |          |     |           |          |
| Establishment                                |        |     |     |           |          |     |           |          |     |           |          |
| Labor and Contingencies                      |        |     |     |           |          |     |           |          |     |           |          |
| ...                                          | 604    | 0   | 1   | 580       | 0        | 0   | 600       | 0        | 0   | 590       | 3        |
| ...                                          | 454    | 7   | 4   | 500       | 0        | 0   | 500       | 0        | 0   | 430       | 11       |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| ...                                          | 2,459  | 2   | 0   | 2,370     | 0        | 0   | 2,450     | 0        | 0   | 2,257     | 3        |
| ...                                          | 6,773  | 8   | 2   | 6,570     | 0        | 0   | 6,750     | 0        | 0   | 6,393     | 5        |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| ...                                          | 3,418  | 0   | 0   | 3,450     | 0        | 0   | 3,410     | 0        | 0   | 3,259     | 13       |
| ...                                          | 14,129 | 13  | 2   | 15,000    | 0        | 0   | 14,100    | 0        | 0   | 15,614    | 3        |
| ...                                          | 45     | 0   | 0   | 60        | 0        | 0   | 50        | 0        | 0   | ...       | ...      |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |
| Total                                        | ...    | ... | ... | 27,883    | 14       | 9   | 28,530    | 0        | 0   | 28,563    | 9        |
| Carried over                                 |        |     |     |           |          |     |           |          |     |           |          |
| ...                                          | ...    | ... | ... | 1,42,027  | 15       | 0   | 1,19,360  | 0        | 0   | 1,10,248  | 13       |
| ...                                          | ...    | ... | ... | 20,13,349 | 1        | 4   | 22,40,240 | 0        | 0   | 20,17,931 | 0        |
| ...                                          | ...    | ... | ... | ...       | ...      | ... | ...       | ...      | ... | ...       | ...      |

Savings.

Increase due to the cost of motor lorries met from the Malaria grant now debited to this head.

Increase due to greater number of electric lights fixed in the year and due to acceptance of higher rates for oil lamps and power lights.

Decrease due to non-receipt of cables indented for from England. Decrease due to certain items having been charged to maintenance instead of to this head.



STATEMENT II.—Expenditure from the Municipal Fund of the City of Madras for the Official year 1915-16—(Continued).

| Items.                        | Actuals, 1915-16.       |                        | Budget Estimate for 1915-16. | Revised Estimate for 1915-16. | Actuals, 1914-15. | Explanation of variations between the Actuals and the Revised Estimate of 1915-16. |
|-------------------------------|-------------------------|------------------------|------------------------------|-------------------------------|-------------------|------------------------------------------------------------------------------------|
|                               | Details of Minor Heads. | Totals of Major Heads. |                              |                               |                   |                                                                                    |
| 1                             | 2                       | 3                      | 4                            | 5                             | 6                 | 7                                                                                  |
|                               | ES.                     | A. P.                  | ES.                          | A. P.                         | ES.               | A. P.                                                                              |
| Brought forward               | ...                     | ...                    | ...                          | ...                           | ...               | ...                                                                                |
| <b>GRANT IV.—(Concluded).</b> |                         |                        |                              |                               |                   |                                                                                    |
| <b>3. Avenues—</b>            |                         |                        |                              |                               |                   |                                                                                    |
| Establishment                 | 850 5 4                 | ...                    | 1,100 0 0                    | 600 0 0                       | 724 0 6           | Increase due to arrears payments to the Assistant Arborist.                        |
| Allowance                     | 470 8 0                 | ...                    | 540 0 0                      | 500 0 0                       | 452 6 9           | Savings.                                                                           |
| Labor                         | 6,523 4 9               | ...                    | 11,550 0 0                   | 7,250 0 0                     | 6,666 10 5        |                                                                                    |
| Tools and Plant               | 312 6 4                 | ...                    | 500 0 0                      | 400 0 0                       | 156 2 11          |                                                                                    |
| Total                         | ...                     | 8,156 8 5              | 13,590 0 0                   | 8,750 0 0                     | 7,999 4 7         |                                                                                    |
| <b>4. Public Parks—</b>       |                         |                        |                              |                               |                   |                                                                                    |
| (a) People's Park—            |                         |                        |                              |                               |                   |                                                                                    |
| Establishment                 | 4,519 7 4               | ...                    | 4,370 0 0                    | 4,570 0 0                     | 4,594 3 0         |                                                                                    |
| Allowance                     | ...                     | ...                    | 20 0 0                       | 20 0 0                        | ...               |                                                                                    |
| Labor, &c.                    | 24,759 14 5             | ...                    | 25,050 0 0                   | 26,350 0 0                    | 17,823 12 9       |                                                                                    |
| Tools and Plant               | 0 13 10                 | ...                    | 50 0 0                       | 50 0 0                        | 29 1 10           |                                                                                    |
| (b) Napier Park—              |                         |                        |                              |                               |                   |                                                                                    |
| Establishment                 | 572 5 5                 | ...                    | 520 0 0                      | 570 0 0                       | 572 10 4          |                                                                                    |
| Allowances                    | 120 0 0                 | ...                    | 120 0 0                      | 120 0 0                       | 126 0 0           |                                                                                    |
| Labor, &c.                    | 790 6 1                 | ...                    | 750 0 0                      | 720 0 0                       | 729 14 9          |                                                                                    |
| Tools and Plant               | ...                     | ...                    | 10 0 0                       | 10 0 0                        | ...               |                                                                                    |
| (c) Robinson Park—            |                         |                        |                              |                               |                   |                                                                                    |
| Establishment                 | 1,026 3 1               | ...                    | 1,000 0 0                    | 1,030 0 0                     | 1,029 6 2         |                                                                                    |
| Labor, &c.                    | 3,918 9 9               | ...                    | 5,230 0 0                    | 4,940 0 0                     | 4,093 8 7         |                                                                                    |
| Tools and Plant               | ...                     | ...                    | 30 0 0                       | 30 0 0                        | 1 5 3             |                                                                                    |
| (d) Leane Square—             |                         |                        |                              |                               |                   |                                                                                    |
| Allowances                    | 60 0 0                  | ...                    | 60 0 0                       | 60 0 0                        | 60 0 0            |                                                                                    |
| Labor, &c.                    | 1,300 10 4              | ...                    | 1,670 0 0                    | 1,670 0 0                     | 1,718 8 7         |                                                                                    |
| Tools and Plant               | ...                     | ...                    | 10 0 0                       | 10 0 0                        | ...               |                                                                                    |
| Total                         | ...                     | 36,978 6 3             | 38,890 0 0                   | 40,150 0 0                    | 30,774 7 3        | Savings.                                                                           |
| <b>5. Survey of Land</b>      |                         |                        |                              |                               |                   |                                                                                    |
| <b>6. Fire—</b>               |                         |                        |                              |                               |                   |                                                                                    |
| Establishment                 | ...                     | ...                    | ...                          | ...                           | ...               | Increase due to purchase of stationery at higher rates.                            |
| Labor, &c.                    | ...                     | ...                    | ...                          | ...                           | ...               |                                                                                    |
| Allowances                    | 4,025 13 0              | ...                    | 5,710 0 0                    | 4,000 0 0                     | 3,269 6 2         | Savings.                                                                           |
| Tools and Plant               | 7,790 8 11              | ...                    | 16,350 0 0                   | 11,300 0 0                    | 8,023 4 3         |                                                                                    |
|                               | 300 0 0                 | ...                    | 300 0 0                      | 300 0 0                       | ...               |                                                                                    |
| Total                         | 37,368 7 1              | 49,454 13 0            | 61,860 0 0                   | 55,100 0 0                    | 11,442 1 10       | Decrease due to the retention money in the purchase of the motor fire engines.     |

|                                                                             |                |               |               |               |
|-----------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| 7. Other Charges—                                                           | 288 0 6        | 320 0 0       | 310 0 0       | 243 0 6       |
| (a) Esplanades                                                              | 4,356 11 6     | 5,000 0 0     | 4,500 0 0     | 4,335 9 8     |
| (b) Quit-rent                                                               | 32,347 0 0     | 25,000 0 0    | 35,000 0 0    | 24,374 0 0    |
| (c) Payment for Red Hills water                                             | 3,081 14 11    | 4,020 0 0     | 2,320 0 0     | 2,981 15 6    |
| (d) Rewards for destruction of Dogs and Venomous Snakes                     | 936 3 5        | 1,000 0 0     | 1,050 0 0     | 602 4 3       |
| (e) Municipal Proceedings, &c., Charges—                                    | 5,757 4 11     | 4,800 0 0     | 6,020 0 0     | 1,803 10 0    |
| Stationery                                                                  | 1,059 1 0      | 1,500 0 0     | 1,500 0 0     | 2,576 10 0    |
| Printing                                                                    | 2,400 0 0      | 2,400 0 0     | 2,400 0 0     | 2,400 0 0     |
| Advertising                                                                 | 3,514 0 11     | 100 0 0       | 4,000 0 0     | 1,619 9 3     |
| (f) Law Charges—                                                            | 848 3 6        | 1,000 0 0     | 1,000 0 0     | 847 6 2       |
| Establishment                                                               | 825 1 5        | 900 0 0       | 1,400 0 0     | 1,406 12 6    |
| Stamp, &c., Charges                                                         | 11 2 8         | 100 0 0       | 100 0 0       | 102 6 11      |
| (g) Election Charges                                                        | ...            | ...           | ...           | ...           |
| (h) Tin Tickets                                                             | ...            | ...           | ...           | ...           |
| (i) Tools and Plant                                                         | ...            | ...           | ...           | ...           |
| (j) Contribution to Provincial Funds, General                               | ...            | ...           | ...           | ...           |
| (k) Stores—                                                                 | 4,792 7 8      | 4,420 0 0     | 4,000 0 0     | 5,252 10 9    |
| Establishment                                                               | 2,430 9 9      | 2,900 0 0     | 2,900 0 0     | 1,084 8 1     |
| Contingencies—                                                              | 11,484 13 3    | 10,850 0 0    | 12,130 0 0    | 11,128 13 0   |
| Cookies for Stock-taking Stationery, Clothing, &c.                          | 333 4 11       | 430 0 0       | 360 0 0       | 363 9 3       |
| (l) Workshops—                                                              | 8,249 9 7      | 8,720 0 0     | 8,680 0 0     | 7,566 8 7     |
| Establishment                                                               | 3,261 13 0     | 3,340 0 0     | 3,270 0 0     | 3,355 13 0    |
| Allowances                                                                  | ...            | ...           | ...           | 119 14 0      |
| Labor and Contingent                                                        | ...            | ...           | ...           | 965 0 0       |
| (m) Insurance on Municipal Buildings                                        | ...            | ...           | ...           | 3,211 14 7    |
| (n) Public Ceremonies                                                       | ...            | ...           | ...           | 1,940 14 3    |
| (o) Motor Car—                                                              | 560 0 0        | 480 0 0       | 560 0 0       | 6,321 7 5     |
| Establishment                                                               | 2,018 12 2     | 2,500 0 0     | 2,000 0 0     | ...           |
| Maintenance                                                                 | 1,956 13 8     | 2,020 0 0     | 2,000 0 0     | ...           |
| (p) Office Tapal                                                            | ...            | ...           | ...           | ...           |
| (q) Loss on Municipal Stores                                                | ...            | ...           | ...           | ...           |
| (r) Census                                                                  | ...            | ...           | ...           | ...           |
| (s) Contribution for St. Patrick's Orphanage, Adayar.                       | 269 11 0       | 220 0 0       | 350 0 0       | 249 12 0      |
| (t) Charges for the treatment of patients at the Pasteur Institute, Coonoor | ...            | ...           | ...           | ...           |
| (u) Contribution to the Madras Society for Protection of Children           | ...            | ...           | ...           | ...           |
| (v) Other Items                                                             | 13,532 2 6     | 17,000 0 0    | 15,500 0 0    | 19,068 12 4   |
| Total ...                                                                   | 1,01,334 18 9  | 99,020 0 0    | 1,11,860 0 0  | 1,03,882 14 0 |
| Total, Grant IV ...                                                         | 3,61,866 11 0  | 3,51,000 0 0  | 4,24,860 0 0  | 2,79,213 1 1  |
| 1. (a) Salaries of Officers                                                 | 31,231 12 5    | 30,720 0 0    | 30,750 0 0    | 33,885 15 6   |
| (b) Allowances                                                              | 880 6 7        | 960 0 0       | 880 0 0       | 960 0 0       |
| Total ...                                                                   | 32,112 2 0     | 31,680 0 0    | 31,630 0 0    | 34,785 15 6   |
| Carried over ...                                                            | 23,75,215 12 4 | 25,91,246 0 0 | 25,53,130 0 0 | 22,97,174 1 2 |

GRANT V.—(Supervision and Management)—

1. (a) Salaries of Officers

(b) Allowances



STATEMENT II.—Expenditure from the Municipal Fund of the City of Madras for the Official year 1915-16 —(Continued).

| Items.                                | Actuals, 1915-16.         |                | Budget<br>Estimate for<br>1915-16. | Revised<br>Estimate for<br>1915-16. | Actuals,<br>1914-15. | Explanation of variations between the Actuals and<br>the Revised Estimate of 1915-16. |
|---------------------------------------|---------------------------|----------------|------------------------------------|-------------------------------------|----------------------|---------------------------------------------------------------------------------------|
|                                       | Totals of<br>Major Heads. |                |                                    |                                     |                      |                                                                                       |
|                                       | 2                         | 3              |                                    |                                     |                      |                                                                                       |
| 1                                     | 2                         | 3              | 4                                  | 5                                   | 6                    | 7                                                                                     |
|                                       | Rs.                       | A. P.          | Rs.                                | A. P.                               | Rs.                  | A. P.                                                                                 |
| Brought forward ...                   |                           | 23,75,215 12 4 | 25,91,240 0 0                      | 25,53,130 0 0                       | 2,297,174 1 2        |                                                                                       |
|                                       |                           | 32,112 2 0     | 31,580 0 0                         | 31,560 0 0                          | 31,783 15 6          |                                                                                       |
|                                       |                           |                |                                    |                                     |                      |                                                                                       |
| (a) Establishment Allowance           | 26,155 15 10              |                | 25,300 0 0                         | 25,800 0 0                          | 26,130 7 8           | Increase due to payment of leave allowances.                                          |
| (b) Stationery                        | 1,188 7 1                 |                | 1,200 0 0                          | 1,200 0 0                           | 1,200 0 0            |                                                                                       |
| (c) Printing Charges                  | 1,826 15 9                |                | 1,400 0 0                          | 2,000 0 0                           | 1,810 1 7            |                                                                                       |
| (d) Advertising Charges               | 911 4 11                  |                | 850 0 0                            | 950 0 0                             | 636 4 3              |                                                                                       |
| (e) Office Furniture                  | 51 12 0                   |                | 30 0 0                             | 30 0 0                              | 19 12 0              |                                                                                       |
| (f) Contingent                        | 1,186 15 4                |                | 400 0 0                            | 1,300 0 0                           | 942 1 10             |                                                                                       |
| (g) Labor-Punkah                      | 1,670 0 0                 |                | 1,300 0 0                          | 1,450 0 0                           | 2,048 13 5           |                                                                                       |
| (h) Clothing for Peons                | 334 13 1                  |                | 120 0 0                            | 350 0 0                             | 2,108 10 0           |                                                                                       |
|                                       | 345 1 0                   |                | 410 0 0                            | 410 0 0                             | 588 1 3              |                                                                                       |
| Total ...                             |                           | 33,681 5 0     | 31,010 0 0                         | 33,490 0 0                          | 35,544 4 0           |                                                                                       |
| 3. Assessment and Collection—         |                           |                |                                    |                                     |                      |                                                                                       |
| (a) Establishment Allowances          | 80,962 12 6               |                | 82,040 0 0                         | 80,550 0 0                          | 80,394 3 7           |                                                                                       |
| (b) Stationery                        | 5,283 5 2                 |                | 5,520 0 0                          | 5,520 0 0                           | 4,726 2 5            |                                                                                       |
| (c) Printing Charges                  | 2,592 2 8                 |                | 2,500 0 0                          | 2,500 0 0                           | 3,082 12 9           |                                                                                       |
| (d) Advertising Charges               | 3,837 10 9                |                | 4,000 0 0                          | 4,000 0 0                           | 3,447 6 10           |                                                                                       |
| (e) Law Charges and Stamp Duties      | 190 14 0                  |                | 1,200 0 0                          | 200 0 0                             | 1,322 8 0            |                                                                                       |
| (f) Office Furniture                  | 341 12 9                  |                | 7,500 0 0                          | 250 0 0                             | 6,470 5 4            |                                                                                       |
| (g) Contingent                        | 255 9 6                   |                | 400 0 0                            | 400 0 0                             | 7,019 14 11          |                                                                                       |
| (h) Labor-Punkah                      | 4,587 10 11               |                | 4,000 0 0                          | 5,000 0 0                           | 4,983 4 7            |                                                                                       |
| (i) Clothing for Inspectors and Peons | 435 1 6                   |                | 470 0 0                            | 400 0 0                             | 414 8 7              |                                                                                       |
| (j) Extra Writers, Coolies and Carts  | 6,501 13 11               |                | 1,600 0 0                          | 1,600 0 0                           | 900 0 6              |                                                                                       |
| (k) Commissioners' Fees               | 170 0 0                   |                | 6,000 0 0                          | 6,000 0 0                           | 6,296 6 10           |                                                                                       |
| (l) Numbering Doors                   | 376 2 11                  |                | 450 0 0                            | 300 0 0                             | 300 0 0              |                                                                                       |
|                                       |                           |                | 300 0 0                            | 300 0 0                             | 961 7 1              |                                                                                       |
| Total ...                             |                           | 1,05,305 0 7   | 1,15,980 0 0                       | 1,07,090 0 0                        | 1,19,319 11 5        | Savings.                                                                              |
| Total, Grant V ...                    |                           | 1,71,098 7 7   | 1,78,670 0 0                       | 1,72,240 0 0                        | 1,89,649 14 11       |                                                                                       |





STATEMENT II.—Expenditure from the Municipal Fund of the City of Madras for the Official year 1915-16—(Concluded).

| Items.                       | Actuals, 1915-16.       |                        | Budget Estimate for 1915-16. | Revised Estimate for 1915-16. | Actuals, 1914-15. | Explanation of variations between the Actuals and the Revised Estimate of 1915-16. |           |       |        |       |           |     |          |       |
|------------------------------|-------------------------|------------------------|------------------------------|-------------------------------|-------------------|------------------------------------------------------------------------------------|-----------|-------|--------|-------|-----------|-----|----------|-------|
|                              | 2                       |                        |                              |                               |                   |                                                                                    | 3         | 4     | 5      | 6     | 7         |     |          |       |
|                              | Details of Minor Heads. | Totals of Major Heads. |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| 1                            | Rs.                     | A. P.                  | Rs.                          | A. P.                         | Rs.               | A. P.                                                                              | Rs.       | A. P. | Rs.    | A. P. |           |     |          |       |
| Brought forward ...          | 57,200                  | 0                      | 25,82,071                    | 10                            | 57,200            | 0                                                                                  | 29,05,660 | 0     | 57,200 | 0     | 26,16,451 | 8   | 5        |       |
| Interest—                    |                         |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| 4% W. W. Loan, 1869-73       | 14,30,000               |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| 4% G. T. Drainage Loan, 1883 | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. do. 1883                 | 3,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. do. 1885                 | 18,000                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| 6% Do. do. 1885              | 2,82,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. do. 1887                 | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| 5% Do. do. 1888              | 1,50,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. do. 1889                 | 1,50,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| W. W. Loan, 1889             | 20,000                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| G. T. Drainage Loan, 1890    | 50,000                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| 4% W. W. Loan, 1895          | 4,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Market Loan, 1897            | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Plague Loan, 1899            | 2,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Water-works Loan, 1899       | 50,000                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Drainage Loan, 1899          | 4,20,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Market Loan, 1899            | 1,50,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Drainage Loan, 1900          | 31,120                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Water-works Loan, 1900       | 1,50,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Plague Loan, 1900            | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Sewer Loan, 1901-1902        | 1,20,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Drainage Loan, 1901-1902     | 2,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. 1903                     | 5,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. 1905                     | 7,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Special Buildings Loan, 1907 | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Drainage Loan, 1908          | 4,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Special Buildings Loan, 1909 | 4,25,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Napier Bridge Loan, 1909     | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Drainage Loan, 1909          | 4,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Napier Bridge Loan, 1910-11  | 50,000                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Drainage Loan, 1911          | 1,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Special Buildings Loan, 1912 | 3,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. 1913                     | 3,42,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. 1914                     | 2,00,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. 1915                     | 1,70,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Electric Lighting Loan, 1914 | 50,000                  |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Do. 1915                     | 1,30,000                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Payment Loan 1915            | 2,64,680                |                        |                              |                               |                   |                                                                                    |           |       |        |       |           |     |          |       |
| Total ...                    |                         |                        | 3,57,729                     | 7 1                           |                   |                                                                                    | 3,46,820  | 0 0   |        |       | 3,61,370  | 0 0 | 3,40,604 | 10 10 |

|                                          |     |          |     |     |           |     |             |          |     |           |     |     |
|------------------------------------------|-----|----------|-----|-----|-----------|-----|-------------|----------|-----|-----------|-----|-----|
| <b>Advances Recoverable—</b>             |     |          |     |     |           |     |             |          |     |           |     |     |
| i. Permanent                             | ... | 40       | 0   | 0   | ...       | ... | ...         | ...      | ... | 90        | 0   | 0   |
| ii. Others                               | ... | 32,425   | 7   | 1   | ...       | ... | 1,000       | 0        | 0   | 26,000    | 0   | 0   |
| Total ..                                 | ... | ...      | ... | ... | 32,465    | 7   | 1           | 1,000    | 0   | 26,090    | 0   | 0   |
| Refund of other than current collections | ... | ...      | ... | ... | 26,653    | 7   | 3           | 42,000   | 0   | 42,000    | 0   | 0   |
| Discount                                 | ... | ...      | ... | ... | ...       | ... | ...         | ...      | ... | ...       | ... | ... |
| Pensions and Gratuities—                 | ... | ...      | ... | ... | ...       | ... | ...         | ...      | ... | ...       | ... | ... |
| (a) Superior Grade                       | ... | 22,089   | 6   | 6   | ...       | ... | 22,000      | 0        | 0   | 21,760    | 0   | 0   |
| (b) Inferior Grade                       | ... | 2,078    | 13  | 3   | ...       | ... | 1,220       | 0        | 0   | 1,500     | 0   | 0   |
| Total ..                                 | ... | ...      | ... | ... | 24,168    | 3   | 9           | 23,220   | 0   | 23,260    | 0   | 0   |
| Total Revenue Account ..                 | ... | ...      | ... | ... | 31,23,088 | 3   | 233,18,700  | 0        | 0   | 33,13,830 | 0   | 0   |
| Total Expenditure ..                     | ... | ...      | ... | ... | 45,30,719 | 2   | 3,60,09,710 | 0        | 0   | 48,59,290 | 0   | 0   |
| <b>Closing Balance—</b>                  |     |          |     |     |           |     |             |          |     |           |     |     |
| i. Capital Account—                      | ... | ...      | ... | ... | ...       | ... | ...         | ...      | ... | ...       | ... | ... |
| General Fund                             | ... | 42,830   | 15  | 3   | ...       | ... | 2,090       | 0        | 0   | 11,390    | 0   | 0   |
| Water and Drainage Fund                  | ... | 99,945   | 6   | 3   | ...       | ... | 9,040       | 0        | 0   | ...       | ... | ... |
| Lighting Fund                            | ... | ...      | ... | ... | ...       | ... | 370         | 0        | 0   | ...       | ... | ... |
| ii. Revenue Account—                     | ... | ...      | ... | ... | 1,42,476  | 5   | 6           | 11,520   | 0   | 11,390    | 0   | 0   |
| General Fund                             | ... | 7,65,661 | 9   | 5   | ...       | ... | 83,510      | 0        | 0   | 5,92,070  | 0   | 0   |
| Water and Drainage Fund                  | ... | 19,762   | 10  | 2   | ...       | ... | ...         | ...      | ... | ...       | ... | ... |
| Lighting Fund                            | ... | ...      | ... | ... | ...       | ... | 37,580      | 0        | 0   | ...       | ... | ... |
| Total ..                                 | ... | ...      | ... | ... | 7,85,434  | 3   | 7           | 1,21,090 | 0   | 5,92,070  | 0   | 0   |
| Grand Total ..                           | ... | ...      | ... | ... | 9,37,900  | 9   | 1           | 1,32,610 | 0   | 6,03,460  | 0   | 0   |
|                                          | ... | ...      | ... | ... | 54,58,619 | 11  | 451,42,320  | 0        | 0   | 54,62,750 | 0   | 0   |

\* Loans from Government.

N.B.—Sums aggregating Rs. 12,69,464-13-1 were transferred from the General Fund to the credit of the Water and Drainage Fund to close the latter account in pursuance of G.O. No. 519 M., Local and Municipal, dated 4th June 1887, up to 31st March 1916.



*Statement showing the Liabilities and Assets as closed in the Books on the 31st March 1916 and forming the Opening Balances of 1916-1917.*

| <i>List of Liabilities or Credit Balances transferred to the ensuing year—</i> |         |     |     |     | RS.       | A. | P. | RS.       | A. | P. | RS.       | A. | P. |
|--------------------------------------------------------------------------------|---------|-----|-----|-----|-----------|----|----|-----------|----|----|-----------|----|----|
| <b>BALANCE OF LOANS—</b>                                                       |         |     |     |     |           |    |    |           |    |    |           |    |    |
| * Waterworks Loan of 1869-73                                                   |         |     |     |     |           |    |    |           |    |    | 14,30,000 | 0  | 0  |
| G. T. Drainage Loan                                                            | 1887    | ... | ... | ... |           |    |    |           |    |    | 1,00,000  | 0  | 0  |
| Do.                                                                            | 1888    | ... | ... | ... |           |    |    |           |    |    | 1,50,000  | 0  | 0  |
| Do.                                                                            | 1889    | ... | ... | ... |           |    |    |           |    |    | 1,50,000  | 0  | 0  |
| Waterworks Loan                                                                | 1889    | ... | ... | ... |           |    |    |           |    |    | 20,000    | 0  | 0  |
| G. T. Drainage Loan                                                            | 1890    | ... | ... | ... |           |    |    |           |    |    | 50,000    | 0  | 0  |
| Waterworks Loan                                                                | 1895    | ... | ... | ... |           |    |    |           |    |    | 4,00,000  | 0  | 0  |
| Market Loan                                                                    | 1897    | ... | ... | ... |           |    |    |           |    |    | 1,00,000  | 0  | 0  |
| Plague Loan                                                                    | 1899    | ... | ... | ... |           |    |    |           |    |    | 2,00,000  | 0  | 0  |
| Waterworks Loan                                                                | 1899    | ... | ... | ... |           |    |    |           |    |    | 50,000    | 0  | 0  |
| Drainage Loan                                                                  | 1899    | ... | ... | ... |           |    |    |           |    |    | 4,20,000  | 0  | 0  |
| Market Loan                                                                    | 1899    | ... | ... | ... |           |    |    |           |    |    | 1,50,000  | 0  | 0  |
| Drainage Loan                                                                  | 1900    | ... | ... | ... |           |    |    |           |    |    | 7,80,000  | 0  | 0  |
| Waterworks                                                                     | 1900    | ... | ... | ... |           |    |    |           |    |    | 1,50,000  | 0  | 0  |
| Plague Loan                                                                    | 1900    | ... | ... | ... |           |    |    |           |    |    | 1,00,000  | 0  | 0  |
| Sewer Loan                                                                     | 1901-02 | ... | ... | ... |           |    |    |           |    |    | 1,20,000  | 0  | 0  |
| Drainage Loan                                                                  | 1901-02 | ... | ... | ... |           |    |    |           |    |    | 2,00,000  | 0  | 0  |
| Do.                                                                            | 1903    | ... | ... | ... |           |    |    |           |    |    | 5,00,000  | 0  | 0  |
| Do.                                                                            | 1905    | ... | ... | ... |           |    |    |           |    |    | 5,50,872  | 7  | 8  |
| Special Buildings Loan                                                         | 1907    | ... | ... | ... |           |    |    |           |    |    | 1,00,000  | 0  | 0  |
| * Drainage Loan                                                                | 1908    | ... | ... | ... |           |    |    |           |    |    | 3,43,931  | 7  | 6  |
| Do.                                                                            | 1909    | ... | ... | ... |           |    |    |           |    |    | 3,52,923  | 9  | 1  |
| Special Buildings Loan                                                         | 1909    | ... | ... | ... |           |    |    |           |    |    | 4,25,000  | 0  | 0  |
| Napier Bridge Loan                                                             | 1909    | ... | ... | ... |           |    |    |           |    |    | 1,00,000  | 0  | 0  |
| Do.                                                                            | 1910-11 | ... | ... | ... |           |    |    |           |    |    | 50,000    | 0  | 0  |
| * Water-supply and Drainage Loan 1910-11                                       |         |     |     |     |           |    |    |           |    |    | 92,472    | 11 | 8  |
| Special Buildings Loan                                                         | 1912    | ... | ... | ... |           |    |    |           |    |    | 3,00,000  | 0  | 0  |
| Do.                                                                            | 1913    | ... | ... | ... |           |    |    |           |    |    | 3,42,000  | 0  | 0  |
| Do.                                                                            | 1914    | ... | ... | ... |           |    |    |           |    |    | 2,00,000  | 0  | 0  |
| Electric Lighting Loan                                                         | 1914    | ... | ... | ... |           |    |    |           |    |    | 50,000    | 0  | 0  |
| Do.                                                                            | 1915    | ... | ... | ... |           |    |    |           |    |    | 1,30,000  | 0  | 0  |
| Special Buildings Loan                                                         | 1915    | ... | ... | ... |           |    |    |           |    |    | 1,70,000  | 0  | 0  |
| Repayment Loan                                                                 | 1915    | ... | ... | ... |           |    |    |           |    |    | 2,04,680  | 0  | 0  |
| Deposits to be adjusted                                                        |         | ... | ... | ... |           |    |    |           |    |    | 3,70,840  | 5  | 6  |
| Unpaid Liabilities                                                             |         | ... | ... | ... |           |    |    |           |    |    | 1,53,286  | 0  | 0  |
| <i>List of Assets or Debit Balances transferred to the ensuing year—</i>       |         |     |     |     |           |    |    |           |    |    |           |    |    |
| <b>MUNICIPAL BALANCE—</b>                                                      |         |     |     |     |           |    |    |           |    |    |           |    |    |
| Revenue                                                                        |         | ... | ... | ... | 7,85,424  | 3  | 7  |           |    |    |           |    |    |
| Loan                                                                           |         | ... | ... | ... | 1,42,476  | 5  | 6  |           |    |    |           |    |    |
|                                                                                |         |     |     |     |           |    |    | 9,27,900  | 9  | 1  |           |    |    |
| <b>DEPOSIT BALANCE—</b>                                                        |         |     |     |     |           |    |    |           |    |    |           |    |    |
| Cash                                                                           |         | ... | ... | ... | 80,335    | 4  | 11 |           |    |    |           |    |    |
| Fixed Deposit                                                                  |         | ... | ... | ... | 70,898    | 15 | 9  |           |    |    |           |    |    |
| Government Securities, etc.                                                    |         | ... | ... | ... | 1,86,400  | 0  | 0  |           |    |    |           |    |    |
|                                                                                |         |     |     |     |           |    |    | 3,37,634  | 4  | 8  |           |    |    |
| <b>SINKING FUND FOR THE LIQUIDATION OF</b>                                     |         |     |     |     |           |    |    |           |    |    |           |    |    |
| * Waterworks Loan of 1869-73                                                   |         |     |     |     | 13,53,500 | 0  | 0  |           |    |    |           |    |    |
| George Town Drainage Loan of 1885                                              |         |     |     |     | 2,40,800  | 0  | 0  |           |    |    |           |    |    |
| Do. Do. " 1887                                                                 |         |     |     |     | 37,072    | 11 | 10 |           |    |    |           |    |    |
| Do. Do. " 1888                                                                 |         |     |     |     | 52,275    | 8  | 3  |           |    |    |           |    |    |
| Do. Do. " 1889                                                                 |         |     |     |     | 50,722    | 0  | 11 |           |    |    |           |    |    |
| Waterworks " 1889                                                              |         |     |     |     | 6,788     | 14 | 2  |           |    |    |           |    |    |
| Drainage " 1890                                                                |         |     |     |     | 15,824    | 12 | 6  |           |    |    |           |    |    |
| Waterworks " 1895                                                              |         |     |     |     | 95,961    | 10 | 9  |           |    |    |           |    |    |
| Market " 1897                                                                  |         |     |     |     | 22,182    | 13 | 2  |           |    |    |           |    |    |
| Plague " 1899                                                                  |         |     |     |     | 36,167    | 15 | 10 |           |    |    |           |    |    |
| Waterworks " 1899                                                              |         |     |     |     | 8,862     | 12 | 6  |           |    |    |           |    |    |
| Drainage " 1899                                                                |         |     |     |     | 74,677    | 2  | 4  |           |    |    |           |    |    |
| Market " 1899                                                                  |         |     |     |     | 26,720    | 8  | 11 |           |    |    |           |    |    |
| Drainage " 1900                                                                |         |     |     |     | 1,28,544  | 8  | 10 |           |    |    |           |    |    |
| Waterworks " 1900                                                              |         |     |     |     | 24,373    | 1  | 11 |           |    |    |           |    |    |
| Plague " 1900                                                                  |         |     |     |     | 16,392    | 10 | 9  |           |    |    |           |    |    |
| Sewer " 1901-02                                                                |         |     |     |     | 16,859    | 13 | 1  |           |    |    |           |    |    |
| Drainage " 1901-02                                                             |         |     |     |     | 27,537    | 14 | 11 |           |    |    |           |    |    |
| Do. " 1903                                                                     |         |     |     |     | 62,988    | 10 | 4  |           |    |    |           |    |    |
| Special Buildings " 1907                                                       |         |     |     |     | 22,536    | 4  | 6  |           |    |    |           |    |    |
| Do. " 1909                                                                     |         |     |     |     | 62,186    | 14 | 6  |           |    |    |           |    |    |
| Napier Bridge " 1909                                                           |         |     |     |     | 14,683    | 4  | 0  |           |    |    |           |    |    |
| Do. " 1910-11                                                                  |         |     |     |     | 5,641     | 1  | 3  |           |    |    |           |    |    |
| Special Buildings " 1912                                                       |         |     |     |     | 26,842    | 10 | 1  |           |    |    |           |    |    |
| Do. " 1913                                                                     |         |     |     |     | 14,418    | 15 | 10 |           |    |    |           |    |    |
| Do. " 1914                                                                     |         |     |     |     | 7,377     | 13 | 11 |           |    |    |           |    |    |
| Electric Lighting " 1914                                                       |         |     |     |     | 1,844     | 12 | 6  |           |    |    |           |    |    |
| Special Buildings " 1915                                                       |         |     |     |     | 3,720     | 3  | 0  |           |    |    |           |    |    |
| Electric Lighting " 1915                                                       |         |     |     |     | 2,815     | 13 | 11 |           |    |    |           |    |    |
|                                                                                |         |     |     |     |           |    |    | 24,60,321 | 8  | 6  |           |    |    |
| Carried over                                                                   |         |     |     |     |           |    |    | 37,25,856 | 6  | 3  | 90,12,006 | 9  | 5  |

\* Loans from Government.

Statement showing the Liabilities and Assets as closed in the Books on the 31st March 1916 and forming the Opening Balances of 1916-17—(Continued).

| Divisions. | Description of Buildings.                                                               | Amount.<br>Rs. |
|------------|-----------------------------------------------------------------------------------------|----------------|
| 1          | Shed for the peons, &c., of the Hindu Burial Ground in Suriyanarayana Chetty Street ... | 100            |
|            | Medical Registrar's Office and Vaccination Depot, Mannarsamy Coil Street ...            | 550            |
|            | Sewage Farm Overseer's Office ...                                                       | 430            |
|            | Shed for storing hay in the sewage farm ...                                             | 640            |
|            | Drainage Overseer's Office in Mannarswami Coil Street ...                               | 2,640          |
|            | Store and Office of the sewer cleaning staff in Kalmadapam Road ...                     | 6,000          |
| 2          | Vaccination Depot in Tiruvattur High Road junction of Cumbalammen Covil Road ...        | 280            |
|            | Cattle Shed in Robinson Park ...                                                        | 2,910          |
|            | Fernery in Robinson Park ...                                                            | 1,700          |
|            | Reservoir for water near Band Stand in Robinson Park ...                                | 200            |
|            | Compound wall to Robinson Park ...                                                      | 250            |
|            | Superintendent's Office at Robinson Park ...                                            | 7,580          |
|            | Kitchen in Robinson Park ...                                                            | 390            |
|            | Peon's quarters at Robinson Park ...                                                    | 780            |
|            | Foliage shed in Robinson Park ...                                                       | 1,200          |
|            | Pumping shed and two wells in Robinson Park ...                                         | 1,950          |
|            | Corrugated zinc shed for the Fire Engine Station at Royapuram Pumping Station ...       | 590            |
|            | Fire engine shed close to the temple gate in Mannarsamy Covil Street ...                | 250            |
|            | Georgetown Dispensary ...                                                               | 10,000         |
|            | Vaccination shed in Monegar Choultry Road ...                                           | 1,800          |
|            | Tiled shed Toll Gate, Tiruvattur High Road ...                                          | 490            |
|            | Overseer's Office and store room of 2nd Division in Mint Street ...                     | 2,950          |
|            | Sanitary Inspector and Works Department Overseer's Office, Ebramji Sahib Street ...     | 2,800          |
|            | Raja Sir Ramaswamy Mudaliar Lying-in-Hospital, Monegar Choultry Road ...                | 28,040         |
|            | Contagious wards in do. ...                                                             | 5,850          |
|            | Kitchen in Lying-in-Hospital ...                                                        | 1,300          |
|            | Nurses quarters in Lying-in-Hospital ...                                                | 14,050         |
|            | Roller shed in Slaughterhouse Road ...                                                  | 950            |
|            | Model Paracherry, Cemetery Road ...                                                     | 57,900         |
|            | Drivers' Lines in Slaughterhouse Road ...                                               | 14,000         |
|            | Bazaars attached to Drivers' Lines ...                                                  | 980            |
|            | H. Bullock depot Slaughterhouse Road ...                                                | 20,970         |
|            | Tiled shed for 12 pairs of bullocks in H bullock depot, Slaughterhouse Road ...         | 1,750          |
|            | Do 6 pairs of bullocks in H bullock depot, Slaughterhouse Road ...                      | 1,650          |
|            | Gram shed at H bullock depot ...                                                        | 1,000          |
|            | Wheel trough in H Bullock depot ...                                                     | 370            |
|            | Model School in Sanjeevirayan Covil Street ...                                          | 12,600         |
|            | Do Cemetery Road ...                                                                    | 12,950         |
| 3          | Buildings in the acquired Fiji Emigration Depot in Tondiarpet ...                       | 3,000          |
|            | Bathing fountain in Basin Bridge Road ...                                               | 540            |
|            | A Depot Bullock shed in Basin Bridge Road ...                                           | 5,400          |
|            | C Kathiwakam High Road ...                                                              | 5,370          |
|            | Shed for Rubbish Depot Superintendent at Manali Bridge ...                              | 200            |
|            | Toll-gate Building No. 3 in Manali Road ...                                             | 400            |
|            | Overseer's Office and Vaccination and Dispensary in Tiruvattur High Road ...            | 15,000         |
|            | Coolies' shed Rubbish Depot in Ennore Road ...                                          | 580            |
|            | Rubbish Depot, Superintendent's Office, Korukupet ...                                   | 490            |
|            | Drivers' Lines at Kathiwakam High Road ...                                              | 9,550          |
|            | Wheel Trough in C Depot ...                                                             | 370            |
|            | Do A Do ...                                                                             | 370            |
|            | Hindu Burial Ground (Shelter shed for Hindus) ...                                       | 980            |
|            | Do do Chetties ...                                                                      | 1,930          |
|            | Do do Brahmmins ...                                                                     | 300            |
|            | Do do Pariahs ...                                                                       | 300            |
|            | Toll-gate, Old Ennore Road ...                                                          | 300            |
|            | Gram shed at C Bullock Depot ...                                                        | 1,260          |
|            | Model School in Korukupet (Mint Subroyalu Naidu Street) ...                             | 11,780         |
|            | Four small incinerators at Cochrane Basin Road ...                                      | 1,340          |
| 4          | Model School in Angappa Naick Street ...                                                | 12,350         |
| 5          | Corner Building of Errbalu Chetty Street ...                                            | 7,000          |
|            | Water Works Stores including Bathing Fountain in Thambu Chetty Street ...               | 1,500          |
|            | Mahannadan Model Buildings in Salai Vinayagar Coil Street ...                           | 6,950          |
|            | Model School in Salai Vinayagar Covil Street ...                                        | 13,590         |
| 6          | Model Paracherry, Vasapmode (new) Broadway ...                                          | 30,000         |
|            | Do do (old) do ...                                                                      | 25,000         |
| 7          | Overseer's Office and Bathing Fountain at Govindappa Naick Street ...                   | 1,500          |
|            | Superintendent's Office and bullock sheds at Basin Bridge Road ...                      | 7,000          |
|            | Storekeeper's Office, old Basin Road ...                                                | 200            |
|            | Model School in Malayappan Street ...                                                   | 14,730         |
| 8          | Municipal Stores and Workshops, including gram depot and Trevillyan Basin Wall ...      | 57,570         |
|            | Portion of Police Station in Wall Tax Road ...                                          | 400            |
|            | Building Overseer's Office, 8th and 9th Divisions ...                                   | 3,200          |
|            | Municipal Cart-stand and Bathing Fountain, Elephant Gate Road ...                       | 7,100          |
| 9          | Superintendent's shed at the Wharf in Wall Tax Road ...                                 | 200            |
|            | Bathing Fountain in Badriah Garden Street ...                                           | 1,600          |
|            | Cart-stand at the commencement of Wall Tax Road. ...                                    | 1,500          |
|            | Carried over ...                                                                        | 4,70,890       |



Statement showing the Liabilities and Assets as closed in the Books on the 31st March 1916 and forming the Opening Balances of 1916-17—(Continued).

| Divisions. | Description of Buildings.                                                                      | Amount.<br>Rs. |
|------------|------------------------------------------------------------------------------------------------|----------------|
|            | Brought forward...                                                                             | 4,70,890       |
| 10         | Trevellyan Wharf ... ..                                                                        | 7,000          |
|            | Incinerator, Basin Road ... ..                                                                 | 1,01,910       |
|            | Superintendent's quarters, at the Incinerator, Basin Road ... ..                               | 450            |
|            | Lethal Chamber at Basin Esplanade Road ... ..                                                  | 1,180          |
|            | Mantapam at DeMellows Road Burial and Burning Ground ... ..                                    | 1,600          |
|            | Pig Pen, DeMellows Road ... ..                                                                 | 1,380          |
|            | Pig Slaughterhouse, DeMellows Road ... ..                                                      | 450            |
|            | Bullock Slaughterhouse, Gantz Road ... ..                                                      | 30,150         |
|            | Sheep Slaughterhouse, Gantz Road ... ..                                                        | 56,250         |
|            | Superintendent's quarters, Bullock Slaughterhouse, Perambur ... ..                             | 4,300          |
|            | Chief Superintendent's quarters Slaughterhouse and Drivers' Lines, "Hope Lodge" ... ..         | 10,400         |
|            | Toll-gate building in Erokanjeri Road (new) ... ..                                             | 1,200          |
|            | Do in Perambore High Road ... ..                                                               | 400            |
|            | Do in Connoer Road ... ..                                                                      | 380            |
|            | Do in Madavaram Road... ..                                                                     | 380            |
|            | Water Works Overseer's Office in DeMellows road ... ..                                         | 960            |
|            | Rat Station in Pullantope Road ... ..                                                          | 550            |
|            | Toll-gate in Perambur Tank Road ... ..                                                         | 190            |
|            | Shed in Vyasarpady Burial Ground ... ..                                                        | 380            |
| 11         | Smithfield Market, Avadanam Paupier Road ... ..                                                | 18,400         |
|            | Vaccination Depot in Rutler's Road ... ..                                                      | 1,040          |
|            | Conservancy Cart Depot including gram shed Choolai ... ..                                      | 11,500         |
|            | Baliah Naidu Dispensary, Rutler's Lane ... ..                                                  | 9,200          |
|            | School in Kalathiappa Mudaly Street ... ..                                                     | 6,500          |
|            | Model School in Vaikakaran Street ... ..                                                       | 16,750         |
|            | Masonry Incinerator inside Choolai Mills ... ..                                                | 300            |
| 12         | Office and Stores of the Overseer in Gangadeswarer Coil Road ... ..                            | 1,270          |
|            | Moore Market with Electric Engine Shed, People's Park ... ..                                   | 3,03,340       |
|            | New Evening Bazaar with refreshment stalls People's Park ... ..                                | 86,400         |
|            | Superintendent's quarters, People's Park ... ..                                                | 6,150          |
|            | Sergeant's quarters in People's Park ... ..                                                    | 2,770          |
|            | Band Stand in People's Park ... ..                                                             | 2,330          |
|            | Menagerie shed with the shed at the entrance in the People's Park ... ..                       | 11,400         |
|            | Foliage shed in People's Park ... ..                                                           | 1,000          |
|            | Shed for swans and other birds in the Island, People's Park ... ..                             | 2,850          |
|            | Bear's cage in People's Park ... ..                                                            | 6,000          |
|            | New Aviary in Do ... ..                                                                        | 5,730          |
|            | Store shed in the Menagerie, People's Park ... ..                                              | 880            |
|            | Pumping Station in People's Park ... ..                                                        | 500            |
|            | New Corporation Office, Ripen Buildings, Poonamallee High Road ... ..                          | 7,74,000       |
|            | Model School in Poonamallee High Road ... ..                                                   | 12,000         |
|            | Fire Engine Shed at Vepery Police Station ... ..                                               | 400            |
| 13         | Office and Stores of the Overseer's in Harris Road ... ..                                      | 1,200          |
|            | Cart Depot including bullock sheds and Sanitary Overseer's Office, Harris Road. ... ..         | 12,000         |
|            | Gram Shed, Harris Depot ... ..                                                                 | 1,000          |
|            | Incinerator, pumping station and compound wall, etc., Langa Garden Road ... ..                 | 1,170          |
|            | Steam Road Roller Shed in Langa Garden Road ... ..                                             | 950            |
|            | Vaccination Depot, Poonamallee High Road ... ..                                                | 1,500          |
|            | Motor fire engine shed and drivers' quarters, in Subroya Mudali Street ... ..                  | 10,500         |
|            | Model dwellings Anglo-Indians, Nariangadu ... ..                                               | 26,000         |
|            | Model School, Goyatope, Nagappa Mudali Street ... ..                                           | 13,800         |
| 14         | Rest-house in Otary Burial and Burning Ground ... ..                                           | 310            |
|            | Toll-gate No. 8 in Madavakam Tank Road ... ..                                                  | 470            |
|            | Do 8-A in Subroya Chetti Street ... ..                                                         | 380            |
|            | Toll Gate No. 9 in Kilpauk Garden Road ... ..                                                  | 470            |
|            | Do 10 in Poonamallee Road, Chetput ... ..                                                      | 470            |
|            | Do 11 in Harrington Road, Chetput ... ..                                                       | 160            |
|            | Do in Subbaraya Gramany Street ... ..                                                          | 380            |
|            | Sheds for tools and plants in Otary Burial Ground ... ..                                       | 270            |
|            | Dhobykhana in McNicholas Road, Chetput ... ..                                                  | 30,700         |
|            | Day School at Chetput ... ..                                                                   | 8,750          |
|            | Kubbish Depot Shed in Brick Kiln Road ... ..                                                   | 250            |
|            | Driver's quarters at Kilpauk or Walkmans's cottage and Channel Overseer's quarters ... ..      | 7,400          |
| 15         | Overseer's Office and Stores in Village Road ... ..                                            | 1,300          |
|            | Tiled shed in Sterlings Road Burial Ground ... ..                                              | 530            |
|            | Toll-gate No. 12 Kodambakam Road ... ..                                                        | 470            |
| 16         | Corporation School in Thousand Lights Azizmulk Street, ... ..                                  | 15,600         |
|            | Model School in Rama Naick Street, Nungambakam ... ..                                          | 14,980         |
|            | Do Arunachala Naick Road ... ..                                                                | 14,780         |
|            | Shed for ambulance in Napier's Park ... ..                                                     | 380            |
|            | Napier's Park Superintendent's Shed and Waterworks Overseer's Office and store room. ... ..    | 1,050          |
|            | Do gatekeeper's lodge at east side of Napier's Park ... ..                                     | 500            |
|            | Dispensary, Vaccination Depot and Sanitary Inspector's Office in Arunachella Naick Road ... .. | 11,700         |
|            | Carried over...                                                                                | 21,50,530      |



## APPENDIX I.

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Statement showing the Liabilities and Assets as closed in the Books on the 31st March 1916 and forming the Opening Balances of 1916-17—(Continued).

| Divisions. | Description of Buildings.                                                                                                | Amount.   |
|------------|--------------------------------------------------------------------------------------------------------------------------|-----------|
|            |                                                                                                                          | Rs.       |
|            | Brought forward...                                                                                                       | 21,50,530 |
|            | Manual fire engine shed at F. 1 Police Station ...                                                                       | 1,300     |
|            | Old pumping engine house now occupied by sewer cleaning staff and special plague Medical Officer ...                     | 6,850     |
| 17         | Building Overseer and Road Overseer's Office, Stores in Balamuthu Street ...                                             | 2,000     |
|            | Model School in Vallabha Agraharam Street ...                                                                            | 12,000    |
|            | Corrugated iron shed in Veeran Parachery ...                                                                             | 200       |
|            | Do at Chetty's Garden for keeping the night-soil buckets, etc. ...                                                       | 130       |
|            | Public bathing fountain in Veeraraghava Mudali Street ...                                                                | 1,000     |
|            | Model School in Bells Road, Triplicane ...                                                                               | 14,000    |
|            | Vaccination Depot at Pulibone Bazaar in Pycrofts Road ...                                                                | 600       |
|            | Masonry incinerator at Pycrofts Lane ...                                                                                 | 240       |
| 18         | 18th Division, Overseer's Office and Stores Pycrofts Road ...                                                            | 2,000     |
|            | Sanitary Inspector's Office in Chengalraya Mudali Street ...                                                             | 1,500     |
|            | Steam Road Roller shed, Westcott Road ...                                                                                | 700       |
|            | Bathing fountains in Ice House Road ...                                                                                  | 600       |
|            | Model School at Venkatarangam Pillai Street ...                                                                          | 14,180    |
|            | Do at Triplicane High Road ...                                                                                           | 14,690    |
|            | Old Depot of Registrar of Births and Deaths, Mount Road Opposite to Neil Statue ...                                      | 800       |
|            | Vaccination Depot at the junction of White's Road and Mount Road ...                                                     | 1,200     |
| 19         | Isolation Hospital, Krishnampet ...                                                                                      | 17,500    |
|            | Incinerator at Krishnampet ...                                                                                           | 16,500    |
|            | Shed for the Superintendent of the Incinerator at Krishnampet ...                                                        | 550       |
|            | Overseer's Mustering Depot shed, Krishnampet ...                                                                         | 700       |
|            | Krishnampet Cart Depot ...                                                                                               | 5,100     |
|            | Barber's Bridge Cart Depot ...                                                                                           | 4,400     |
|            | School at Krishnampet including compound wall ...                                                                        | 6,500     |
|            | Royapettah Hospital including Sub-Assistant Surgeons' quarters and Nurses' quarters and store shed and compound wall ... | 2,46,000  |
|            | Wharf with crane and Superintendent shed at Venkatarangam Pillai Street ...                                              | 250       |
|            | Tiled shed at Krishnampet Burial Ground ...                                                                              | 210       |
|            | Lethal Chamber, Krishnampet ...                                                                                          | 2,300     |
|            | Peon's room for Krishnampet Burial Ground ...                                                                            | 400       |
|            | Gram shed at Krishnampet ...                                                                                             | 1,000     |
| 20         | Vaccination Depot, Cutcheri Road ...                                                                                     | 450       |
|            | Shed at Mylapore Hindu Burial and Burning Ground ...                                                                     | 530       |
|            | Damodar Street Panchama School ...                                                                                       | 8,000     |
|            | Wharf with crane, etc., in Ellapatha Matha Covil Road ...                                                                | 350       |
|            | Toll-gate in Mount Road ...                                                                                              | 300       |
|            | Do Chamier's Road ...                                                                                                    | 100       |
|            | Do Adyar Bridge Road ...                                                                                                 | 250       |
|            | Overseer's Office and Stores, 20th Division ...                                                                          | 1,500     |
|            | Watchman's room and compound wall in Mahomedan Burial Ground in Ellapatha Matha Covil Road ...                           | 660       |
|            | Overseer's Office and Stores of Waterworks Overseer, 20th Division ...                                                   | 1,500     |
|            | Model School in Mandavalli Street, Mylapore ...                                                                          | 14,000    |
| Outside    | Overseer's quarters at Ked Hills ...                                                                                     | 1,800     |
|            | Channel Overseer's quarters ...                                                                                          | 1,180     |
|            | Red Hills Bungalow (Big) ...                                                                                             | 8,200     |
|            | Out-houses of the above bungalow ...                                                                                     | 1,380     |
|            | Red Hills Bungalow (small) ...                                                                                           | 2,450     |
|            | Out-houses of the above bungalow ...                                                                                     | 480       |
|            | Stable with out-houses ...                                                                                               | 2,400     |
|            | Tower House old with fittings ...                                                                                        | 9,900     |
|            | New Tower house ...                                                                                                      | 50,000    |
|            | Cottage No. 1 Delivery Channel ...                                                                                       | 2,000     |
|            | Do 2 do ...                                                                                                              | 1,900     |
|            | Do 3 do ...                                                                                                              | 2,400     |
|            | Do 4 do ...                                                                                                              | 1,800     |
|            | License Clerks quarters at Ennore Lock ...                                                                               | 5,000     |
|            | Quarter for the Licensing Clerk at Adyar ...                                                                             | 1,700     |
|            | Night-soil Depot ...                                                                                                     | 4,980     |
|            | Settling basin and valve house ...                                                                                       | 55,100    |
|            | Couduit ...                                                                                                              | 5,77,600  |
|            | Filter beds ...                                                                                                          | 4,68,350  |
|            | Filter water reservoirs ...                                                                                              | 1,45,350  |
|            | Other subsidiary buildings ...                                                                                           | 9,500     |
|            | Stores sheds at Kilpauk ...                                                                                              | 5,340     |
|            | Distribution stores at Royapettah ...                                                                                    | 1,590     |
|            | Do. People's Park ...                                                                                                    | 1,530     |
|            | Drainage stores at do. ...                                                                                               | 4,360     |
|            | Do. Napier Park ...                                                                                                      | 3,380     |
|            | Do. Pursawakum ...                                                                                                       | 1,640     |
|            | Do. Georgetown ...                                                                                                       | 2,640     |
|            | Cement shed at Napier Park ...                                                                                           | 1,260     |
|            | Do. testing shed at do. ...                                                                                              | 440       |
|            | Carried over ...                                                                                                         | 39,29,170 |



Statement showing the Liabilities and Assets as closed in the Books on the 31st March 1916 and forming the Opening Balances of 1916-17—(Continued).

| Divisions. | Description of Buildings.                              | Amount.<br>Rs. |
|------------|--------------------------------------------------------|----------------|
|            | Brought forward...                                     | 39,29,170      |
|            | <i>Pumping Station Buildings:—</i>                     |                |
|            | Pumping Station and Drivers' quarters at Royapuram ... | 10,410         |
|            | DeMellow's Road Pumping Station ...                    | 3,510          |
|            | Langs Garden do ...                                    | 6,830          |
|            | Napier Park do ...                                     | 10,750         |
|            | Ice House Road do ...                                  | 8,460          |
|            | Mylapore do ...                                        | 3,490          |
|            | Law College do ...                                     | 15,940         |
|            | Tondiarpet do " A " ...                                | 12,220         |
|            | Do do " B " ...                                        | 14,010         |
|            | Do do " C " ...                                        | 11,810         |
|            | Kilpank Pumping Station ...                            | 3,80,500       |
|            | Total...                                               | 44,07,100      |
|            | Value of Municipal lands ...                           | 7,21,668       |
|            | Do tools and plant and materials ...                   | 63,01,380      |
|            | Do furniture ...                                       | 48,000         |
|            | Do live stock ...                                      | 1,14,830       |
|            | Arrears of Taxes, &c. ...                              | 1,09,122       |
|            | Advances Recoverable ...                               | 1,61,807       |
|            | Total ...                                              | 74,56,807      |
|            | Total Assets...                                        | 155,89,763     |
|            | Total Liabilities...                                   | 90,12,007      |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I.—New Works.

| No. | Particulars.                                                                                                                                                                                       | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                            |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------------------------------------------------------------|
|     |                                                                                                                                                                                                    | Rs.                     | Rs.                          |                                                                     |
|     | GRANT I.—Public Works.                                                                                                                                                                             |                         |                              |                                                                     |
|     | 1. NEW WORKS.                                                                                                                                                                                      |                         |                              |                                                                     |
|     | (a) Communications.                                                                                                                                                                                |                         |                              |                                                                     |
| 2   | Constructing a skew bridge in Stephenson Road junction with Otteri Nullah ...                                                                                                                      | 12,000                  | 8,549                        | In progress.                                                        |
| 10  | Constructing floor and parapet wall of Nullah Bridge for the portion affected by rounding off the approaches at the junction of Connur Road and Cook's Road ...                                    | 1,800                   | ...                          | Do.                                                                 |
| 11  | Acquisition of land and buildings in R. S. Nos. 2812, 2813, 2901/1, and 2901/2 of Tondiarpet for widening Lawyer Chinna-thambi Mudali 2nd Street and connecting it with Sanjiviroyan Covil St. ... | 5,310                   | 5,310                        | Paid in full.                                                       |
| 12  | Acquisition of land and buildings in R. S. Nos. 2767 and 2774 of Georgetown for opening a street from Venkatayyan Street to Ramasamy Street ...                                                    | 8,700                   | ...                          | Withdrawn with a view to economy.                                   |
| 13  | Acquisition of land in R. S. No. 4866 of Georgetown for rounding off the corner at the junction of Armenian Street and Mukernallamuthu Chetti Street ...                                           | 250                     | 250                          | Paid in full.                                                       |
| 14  | Acquisition of land in parts of R. S. Nos. 5617 to 5620 (1a, 1b and 2), 5623 to 5626, 5629, 5630, 5632, 5633, and 5631 (1) for widening Popham's Broadway ...                                      | 9,770                   | 11,917                       | Land acquired. Paid in full. Excess sanctioned by S. C. on 11-2-16. |
| 15  | Compensation for shifting back the building in R. S. No. 11452 of Georgetown for widening Popham's Broadway ...                                                                                    | 1,500                   | 2,461                        | Paid in full. Excess sanctioned by S. C. on 10-12-15.               |
| 16  | Removing and refixing the Tramway and Telegraph posts at the junction of the General Hospital Road and Evening Bazaar Road ...                                                                     | 260                     | 183                          | Paid in full.                                                       |
| 17  | Acquisition of land in Vepery for connecting Cuddapah Rangiah Chetti Street with Mattucara Veerabadran Street ...                                                                                  | 255                     | 253                          | Do.                                                                 |
| 18  | Acquisition of land and buildings in R. S. Nos. 1054 and 1055 of Egmore for widening Vencatachella Naick Street ...                                                                                | 3,000                   | ...                          | Withdrawn with a view to economy.                                   |
| 19  | Compensation for shifting back the building in R. S. No. 3728 of Triplicane occupied by the portico of Messrs. Wiele and Klein in Mount Road ...                                                   | 580                     | ...                          | Land was taken possession of under sec. 233 of the Act.             |
| 20  | Excess amount awarded by High Court in respect of the land acquired by Corporation for widening Mosque Lane and connecting the same with Bell's Road ...                                           | 435                     | 434                          | Paid in full.                                                       |
| 21  | Regulation fees to the Government Solicitor for land case No. 47 of 1914 regarding the acquisition in R. S. No. 2770 of Triplicane for widening Khana Bagh Street ...                              | 203                     | 198                          | Do.                                                                 |
|     | Carried over ...                                                                                                                                                                                   | 44,060                  | 29,585                       |                                                                     |



## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I.—New Works—(Continued).

| No. | Particulars.                                                                                                                                                                | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|--------------------------------------------------------------------------------|
|     |                                                                                                                                                                             | Rs.                     | Rs.                          |                                                                                |
|     | Brought forward ...                                                                                                                                                         | 44,060                  | 29,585                       |                                                                                |
|     | GRANT I.—Public Works—(Contd.)                                                                                                                                              |                         |                              |                                                                                |
|     | 1. NEW WORKS—(Contd.)                                                                                                                                                       |                         |                              |                                                                                |
|     | (a) Communications—(concl'd.)                                                                                                                                               |                         |                              |                                                                                |
| 22  | Acquisition of land and structure in R. S. No. 375 of Triplicane for widening General Patter's Road near Brind's Hotel ...                                                  | 2,200                   | ...                          | Withdrawn with a view to economy.                                              |
| 23  | Shifting the Madras Electric Supply Corporation posts at the junction of Nungambaukam High Road and College Road to the side of the road on account of road improvement ... | 130                     | 127                          | Paid in full.                                                                  |
| 24  | Acquisition of land in R. S. No. 664 of Mylapore for connecting Chanda Sahib Street with Masthura Begam Pettah Road ...                                                     | 850                     | 850                          | Do.                                                                            |
| 25  | Shifting two Tramway poles in Cutcheri Road, Mylapore, owing to the widening of the road by the removal of three building projections ...                                   | 320                     | 320                          | Do.                                                                            |
| 26  | Acquisition of land and buildings in Georgetown for widening Salai Vinagar Civil Street. ...                                                                                | 8,840                   | ...                          | Under correspondence.                                                          |
| 27  | Petty Works ...                                                                                                                                                             | 200                     | 217                          | .....                                                                          |
| (a) | Acquisition of two strips of land in Cutchery Road, Mylapore, (out of the land acquired by the Government for constructing Police Lines) for widening the road ...          | ...                     | 318                          | { Sanctioned by Corporation on 23-12-15.<br>Paid in full.<br>Met from savings. |
|     | Total :—                                                                                                                                                                    | 56,600                  | 31,417                       |                                                                                |
|     | (b) Buildings.                                                                                                                                                              |                         |                              |                                                                                |
| 2   | Constructing a bathing fountain with six taps in Ice House Road in the place of the existing corrugated sheet iron enclosure which is to be dismantled ...                  | 600                     | 373                          | Completed.                                                                     |
| 3   | Constructing a compound wall for the additional land of Corporation Workshops and Stores ...                                                                                | 6,110                   | 1,691                        | In progress.                                                                   |
| 5   | Constructing a shed 20 feet by 16 feet in the Mylapore Burial and Burning Ground ...                                                                                        | 550                     | 528                          | Paid in full.                                                                  |
| 6   | Construction of four Model Schools in 1915-1916 :—                                                                                                                          |                         |                              |                                                                                |
| (a) | In Cemetery Road, Tondiarpet ...                                                                                                                                            | 70,725                  | 12,953                       | Main building completed, but latrine in progress.                              |
| (b) | In Triplicane High Road, Triplicane ...                                                                                                                                     |                         | 12,458                       | Do.                                                                            |
| (c) | At Ammayappa Mudali Street, Mylapore ...                                                                                                                                    |                         | 12,815                       | In progress.                                                                   |
| (d) | At Vadhyar Canda Pillai Street Purasawakam ...                                                                                                                              |                         | 10,781                       | Do.                                                                            |
|     | Carried over ...                                                                                                                                                            | 77,985                  | 51,599                       |                                                                                |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I. — New Works — (Continued).

| No. | Particulars.                                                                                                                                                   | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                            |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-------------------------------------------------------------------------------------|
|     | Brought forward ...                                                                                                                                            | Rs. 77,985              | Rs. 51,599                   |                                                                                     |
|     | GRANT I.—Public Works—(contd.)                                                                                                                                 |                         |                              |                                                                                     |
|     | I. NEW WORKS—(contd.)                                                                                                                                          |                         |                              |                                                                                     |
|     | (b) Buildings—(Contd.)                                                                                                                                         |                         |                              |                                                                                     |
| 7   | Acquisition of land in R. S. No. 3527 of Tondiarpet for the extension of the Hindu Burial Ground in Surianarayana Chetti Street ... ..                         | 2,000                   | 2,068                        | Land acquired. Paid in full. Excess sanctioned by S. C. on 15-10-15 and on 25-2-16. |
| 8   | Alteration of existing latrines to flush-out latrines in Tondiarpet where new sewers are laid and construction of new latrines in various parts of the city :— |                         |                              |                                                                                     |
| (a) | Installing a flush-out latrine of 30 seats in Kasimodu Garden, near Flag Staff Street...                                                                       | ...                     | ...                          | In progress.                                                                        |
| (b) | Installing a flush-out latrine of 30 seats in Mottai Garden ... ..                                                                                             | ...                     | 29                           | Do.                                                                                 |
| (c) | Installing a flush-out latrine of 30 seats in Shaik Maistri Street ... ..                                                                                      | ...                     | ...                          | Work commenced in 1916-17.                                                          |
| (d) | Installing a flush-out latrine of 30 seats in Palmyrakuppam ... ..                                                                                             | ...                     | ...                          | Not begun.                                                                          |
| (e) | Installing a flush-out latrine of 30 seats in Periatambal Street, Kasimodu Garden ...                                                                          | ...                     | ...                          | In progress.                                                                        |
| (f) | Installing a flush-out latrine of 20 seats in Narayanasappa Naick 8th Street ... ..                                                                            | ...                     | ...                          | Do.                                                                                 |
| (g) | Installing a flush-out latrine of 30 seats in Kuppam Hutting Ground with sanitary fittings and water-supply connections ...                                    | ...                     | ...                          | Not begun.                                                                          |
| (h) | Installing a flush-out latrine of 30 seats in Coom River Road with sanitary fittings and water-supply connections ... ..                                       | ...                     | ...                          | Do.                                                                                 |
| (i) | Constructing a flush-out latrine of 30 seats in Angalammen Covil Street with sanitary fittings and Water-Supply Connections ...                                | 10,000                  | ...                          | Work commenced in 1916-17.                                                          |
| (j) | Installing a flush-out latrine of 30 seats in Swami Reddi Street ... ..                                                                                        | ...                     | ...                          | Do.                                                                                 |
| (k) | Installing a flush-out latrine of 30 seats in Cundappa Mudali Street, including sanitary fittings and water-supply ... ..                                      | ...                     | ...                          | Not begun.                                                                          |
| (l) | Installing a flush-out latrine of 30 seats in Cemetery Road ... ..                                                                                             | ...                     | 152                          | In progress.                                                                        |
| (m) | Connection to Devaraja Mudali Street flush-out latrine in Triplicane. ... ..                                                                                   | ...                     | 326                          | Completed.                                                                          |
| (n) | Installing a flush-out latrine of 4 seats at the junction of Basin Road and Old Jail Street.                                                                   | ...                     | 474                          | In progress.                                                                        |
| (o) | Installing a flush-out latrine of 30 seats in Shaik Maistri Street at the junction of Thambu Chetti Lane ... ..                                                | ...                     | ...                          | Do.                                                                                 |
| (p) | Installing a flush-out latrine in Sirdarjung Garden Street ... ..                                                                                              | ...                     | ...                          | Work commenced in 1916-17.                                                          |
|     | Carried over ...                                                                                                                                               | 89,985                  | 54,648                       |                                                                                     |



## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                                     | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | Brought forward ...                                                                                                                              | Rs. 89,985              | Rs. 54,648                   |                                                                                                                                                         |
|     | GRANT I.—Public Works—(Contd.)                                                                                                                   |                         |                              |                                                                                                                                                         |
|     | 1. NEW WORKS—(Contd.)                                                                                                                            |                         |                              |                                                                                                                                                         |
|     | (b) Buildings—(contd.)                                                                                                                           |                         |                              |                                                                                                                                                         |
| (q) | Partitioning the sanded latrine in Cox Paracherri into two at the junction of Rix Street and Cooum River Road ...                                | ...                     | 569                          | Paid in full.                                                                                                                                           |
| (r) | Torfeit urinals ...                                                                                                                              | ...                     | 429                          | Completed.                                                                                                                                              |
| 9   | Making alterations and additions to Lethal Chamber, Krishnampet ...                                                                              | 630                     | ...                          | In progress.                                                                                                                                            |
| 11  | Construction of 4 Model Schools in 1913-14...                                                                                                    |                         |                              |                                                                                                                                                         |
| (a) | In Goyatope, Egmore ...                                                                                                                          |                         | 710                          | Paid in full.                                                                                                                                           |
| (b) | In Nungumbaukam near Azizmulk Street, Thousand Lights ...                                                                                        | 23,110                  | 1,920                        | Do.                                                                                                                                                     |
| (c) | In Vasapmodu Paracherri, Georgetown ...                                                                                                          |                         | 7,056                        | In progress.                                                                                                                                            |
| (d) | In Bell's Road, Triplicane ...                                                                                                                   |                         | 12,938                       | Main building completed and latrine in progress.                                                                                                        |
| 12  | Construction of 4 Model Schools in 1914-15.                                                                                                      |                         |                              |                                                                                                                                                         |
| (a) | At Rama Naick Street, Nungambaukam ...                                                                                                           |                         | 3,707                        | Completed.                                                                                                                                              |
| (b) | At Venkatrangam Pillai Street, Triplicane ...                                                                                                    | 45,630                  | 9,485                        | Do.                                                                                                                                                     |
| (c) | At Angappa Naick Street, Georgetown ...                                                                                                          |                         | 11,122                       | Do.                                                                                                                                                     |
| (d) | At Salai Vinayagar Koil Street, Basin Road.                                                                                                      |                         | 12,885                       | Main building completed but latrine not begun.                                                                                                          |
| 13  | Improvements to passport office, Tiruvotiyur High Road and constructing an office building for Sanitary Inspector, Conservancy Overseer, &c. ... | 13,065                  | 8,875                        | Main building completed but latrine in progress.                                                                                                        |
| 14  | Housing of Milch Cattle.—                                                                                                                        |                         |                              |                                                                                                                                                         |
| (a) | Constructing a model milch cow house in "B" Depot, Basin Bridge Road, 7th Division and the purchase of a sterilizing boiler.                     | 12,000                  | 21,500                       | In progress Excess provided in budget 1916-17 as it was not anticipated that the expenditure would be incurred within the year.                         |
| (b) | Acquisition of land and building in R. S. No. 3547 of Tondiarpet (Old Fiji Emigration Depot) for the construction of model milch cow houses ...  | 27,000                  | 22,182                       | Land acquired. Alterations of buildings were postponed for want of funds. Includes pay of the watchman in charge of the buildings in the acquired area. |
| 15  |                                                                                                                                                  |                         |                              |                                                                                                                                                         |
| 16  | Constructing corrugated iron shed at stores.                                                                                                     | 2,410                   | 1,899                        | In progress.                                                                                                                                            |
| 17  | Constructing dust-bin platforms ...                                                                                                              | 1,350                   | ...                          | Trial bin in progress.                                                                                                                                  |
| 20  | Improvements to Smithfield Market ...                                                                                                            | 1,000                   | ...                          | Completed.                                                                                                                                              |
| 21  | Constructing a bathing fountain with 6 taps in Basin Bridge Road at the junction of Mint Street ...                                              | 600                     | 395                          | Do.                                                                                                                                                     |
|     | Constructing a room on the upper floor of the Superintendent's Office in Robinson Park ...                                                       | 825                     | 824                          | Paid in full.                                                                                                                                           |
|     | Carried over ...                                                                                                                                 | 2,17,605                | 1,71,144                     |                                                                                                                                                         |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                                                                                                               | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------|
|     |                                                                                                                                                                                                                            | Rs.                     | Rs.                          |                                                                                               |
|     | Brought forward ...                                                                                                                                                                                                        | 2,17,605                | 1,71,144                     |                                                                                               |
|     | GRANT I.—Public Works (contd.)                                                                                                                                                                                             |                         |                              |                                                                                               |
|     | 1. NEW WORKS (contd.)                                                                                                                                                                                                      |                         |                              |                                                                                               |
|     | (b) Buildings.—(contd.)                                                                                                                                                                                                    |                         |                              |                                                                                               |
| 22  | Constructing two flush-out latrines of design No. 3 in Velayudha Chetti Street and making 4-inch water main connections from Harris Road ...                                                                               | 2,560                   | 1,825                        | Paid in full.                                                                                 |
| 23  | Extending Olcott Free Panchama School Buildings, Kistnampet ...                                                                                                                                                            | 180                     | 179                          | Do.                                                                                           |
| 24  | Installing a convertable latrine of 32 seats in Polu Naicken Street, Perambur ...                                                                                                                                          | 2,260                   | 2,255                        | Do.                                                                                           |
| 25  | Installing a flush-out latrine of 36 seats between Thoppai Mudali and Rama Naick Streets, Tondiarpet ...                                                                                                                   | 230                     | 106                          | Completed.                                                                                    |
| 26  | Installing a flush-out latrine of 10 seats for the model school at Sanjiviroyanpet ...                                                                                                                                     | 240                     | 48                           | Do.                                                                                           |
| 27  | Acquisition of land and building in R. S. No. 3061 of Georgetown in Thambu Chetti Lane for the construction of a flush-out latrine ...                                                                                     | 340                     | 337                          | Land acquired. Paid in full.                                                                  |
| 28  | Constructing a model paracheri of 34 tenements in Cemetery Road, Tondiarpet, including the connections of drains with the sewer and the construction of a latrine ...                                                      | 6,000                   | 5,454                        | Main building completed but latrine in progress.                                              |
| 29  | Repairing and fencing the emus and casowary cages in the menagerie enclosure, People's Park ...                                                                                                                            | 130                     | 127                          | Paid in full.                                                                                 |
| 30  | Forming roadways round new bear's cage in the menagerie enclosure, People's Park.                                                                                                                                          | 350                     | 49                           | Do.                                                                                           |
| 31  | Constructing a shed for dogs near the Basin Bridge Road Incinerator ...                                                                                                                                                    | 310                     | 311                          | Do.                                                                                           |
| 32  | Constructing quarters for the two native nurses in the Lying-in-Hospital, Monegar Choultry Road ...                                                                                                                        | 9,160                   | 8,503                        | Completed.                                                                                    |
| 33  | Fixing a weigh-bridge at the roller shed, Madras Club ...                                                                                                                                                                  | 700                     | ...                          | Weigh-bridge was fixed at Kilpauk Pumping Station and hence charged to Repairs, water-supply. |
| 34  | Constructing model cottages for poor Anglo-Indians in Pudupet including sanitary fittings and water-supply ...                                                                                                             | 750                     | 747                          | Paid in full.                                                                                 |
| 35  | Constructing new Corporation Office Buildings ...                                                                                                                                                                          | 8,500                   | 6,816                        | All minor works completed.                                                                    |
| 36  | Excess awarded by Court and regulation fees paid to Government Solicitor in land case No. 8 of '15 in regard to the acquisition of land in Singanna Naick Street, Chintadripet, for the construction of a model school ... | 360                     | 361                          | Paid in full.                                                                                 |
|     | Carried over ...                                                                                                                                                                                                           | 2,49,675                | 1,98,262                     |                                                                                               |



STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                                                                                       | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                             |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|------------------------------------------------------|
|     |                                                                                                                                                                                                    | Rs.                     | Rs.                          |                                                      |
|     | Brought forward ...                                                                                                                                                                                | 2,49,675                | 1,98,262                     |                                                      |
|     | GRANT I.—Public Works—(Contd.).                                                                                                                                                                    |                         |                              |                                                      |
|     | I. NEW WORKS—(Contd.).                                                                                                                                                                             |                         |                              |                                                      |
|     | (b) Buildings.—(Contd.)                                                                                                                                                                            |                         |                              |                                                      |
| 37  | Excess amount awarded by Court to the 3rd claimant in land case No. 105 of 1914 for the acquisition of land in R. S. No. 1340 in Triplicane High Road for the construction of a model school ...   | 1,845                   | 2,174                        | Paid in full. Excess sanctioned by S. C. on 25-2-16. |
| 38  | Acquisition of land and buildings in R. S. Nos. 325 to 329 of Tondiarpet in Madah Church East Side Road for the construction of a model school ...                                                 | 8,000                   | ...                          | Withdrawn with a view to economy.                    |
| 39  | Construction of a model school in Arunachala Naick Road, Chintadripet and in Mint Suboryalu Naidu Street, Georgetown.                                                                              | 1,900                   | 1,900                        | Paid in full.                                        |
| 40  | Construction of a central fire station at Pudupet ...                                                                                                                                              | 1,000                   | 768                          | Completed.                                           |
| 41  | Constructing additions to the existing motor fire engine sheds at Pudupet ...                                                                                                                      | 11,860                  | 5,914                        | In progress.                                         |
| 42  | Fixing the rail hose posts in concrete and connecting the existing one with the new one by four beams, pulleys, &c., for drying the hoses of motor fire engine at Pudupet ...                      | 140                     | ...                          | Completed.                                           |
| 43  | Constructing a verandah for the vaccination depot opposite to Kalmantapam Road Police Station ...                                                                                                  | 220                     | ...                          | Do.                                                  |
| 44  | Fixing electric fittings for the new nurses' quarters in the Lying-in-Hospital, Rayapuram ...                                                                                                      | 600                     | 610                          | Paid in full. Excess sanctioned by S. C. on 11-2-16. |
| 45  | Fixing iron bars and windows on the first floor and fixing teakwood shelves, with frames, shutters etc., in ground and first floor of the nurses' quarters in the Lying-in-Hospital, Rayapuram ... | 500                     | ...                          | Completed.                                           |
| 46  | Fixing wire netting with teakwood frames to all the openings of the verandah of the several wards in Rajah Sir Ramaswamy Mudaliar Lying-in-Hospital, Rayapuram, to prevent crows coming in ...     | 1,350                   | 1,481                        | Completed. Excess sanctioned by S. C. on 8-4-16.     |
| 47  | Improvements to the Cholera Hospital in Barracks Square ...                                                                                                                                        | 12,000                  | 6,265                        | In progress.                                         |
| 48  | Constructing four small incinerators at Cochrane Basin Road, 3rd Division ...                                                                                                                      | 1,400                   | ...                          | Completed.                                           |
| 49  | Constructing a masonry incinerator at Chulai Mills ...                                                                                                                                             | 330                     | ...                          | Do.                                                  |
| 50  | Erecting a masonry incinerator of the ordinary type in Pycrofts 1st Street ...                                                                                                                     | 270                     | 239                          | Paid in full.                                        |
|     | Carried over ...                                                                                                                                                                                   | 2,91,090                | 2,17,613                     |                                                      |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I.—New Works—(Continued).

| No. | Particulars.                                                                                                                                                                                                              | Revised Estimate | Expenditure      | REMARKS.                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|----------------------------------------------------------------|
|     |                                                                                                                                                                                                                           | Grant.           | during the year. |                                                                |
|     |                                                                                                                                                                                                                           | Rs.              | Rs.              |                                                                |
|     | Brought forward ...                                                                                                                                                                                                       | 2,91,090         | 2,17 613         |                                                                |
|     | GRANT I.—Public Works—(Contd.)                                                                                                                                                                                            |                  |                  |                                                                |
|     | 1. NEW WORKS.—(Contd.)                                                                                                                                                                                                    |                  |                  |                                                                |
|     | (b) Buildings.—(Concl'd).                                                                                                                                                                                                 |                  |                  |                                                                |
| 51  | Acquisition of additional land in R. S. No. 3641 of GeorgeTown in Angappa Naick Street for enlarging the play ground of the Model School and for the construction of a latrine... ..                                      | 4,200            | ...              | Withdrawn with a view to economy.                              |
| 52  | Constructing a compound wall in the south west corner of the Rayapettah Hospital to enclose the newly-acquired land ...                                                                                                   | 800              | 650              | Paid in full.                                                  |
| 53  | Constructing a compound wall between the Sub-Assistant Surgeon's quarters and the newly proposed Dhobykhana at the Rayapettah Hospital... ..                                                                              | 350              | 330              | Do                                                             |
| 54  | Constructing an office room and quarters for the licensing clerk and his lascar at Adyar...                                                                                                                               | 1,800            | 1,581            | Completed.                                                     |
| 55  | Petty works ... ..                                                                                                                                                                                                        | 500              | 457              | ...                                                            |
| (a) | Excess compensation in the award of the High Court in L. C. appeal No. 56 of '15 for the acquisition of land and buildings in R. S. No. 2,652/2 of Triplicane for the construction of a Model School in Bells Road ... .. | ...              | 4,836            | Sanctioned by S.C. on 8-4-16. Paid in full. Met from savings.  |
| (b) | Payment of fees to the Government Solicitor for L. C. appeal Nos. 35 of '15, 56 of '15 and 413 of '14 ... ..                                                                                                              | ...              | 379              | Sanctioned by S.C. on 25-2-16. Paid in full. Met from savings. |
| (c) | Additional allotment for the acquisition of land in R. S. No. 1,330 of Egmore for a Model School at Goyatope ... ..                                                                                                       | ...              | 1,185            | Sanctioned by S.C. on 8-4-16. Paid in full. Met from savings.  |
|     | Total ...                                                                                                                                                                                                                 | 2 98,740         | 2,27,031         |                                                                |
|     | (c) Drainage—Special.                                                                                                                                                                                                     |                  |                  |                                                                |
|     | Madras Main Drainage.                                                                                                                                                                                                     |                  |                  |                                                                |
| 1   | Law College and Royapuram Pumping Stations—                                                                                                                                                                               |                  |                  |                                                                |
|     | Buildings ... ..                                                                                                                                                                                                          | ...              | ...              | Completed.                                                     |
|     | Machinery ... ..                                                                                                                                                                                                          | ...              | ...              | Do.                                                            |
|     | Alterations to sewers and pumping mains ..                                                                                                                                                                                | ...              | ...              | Do.                                                            |
|     | Constructing flush-out latrine for Engine drivers &c., at Law College Pumping Station.                                                                                                                                    | ...              | ...              | Do.                                                            |
|     | Carried over ...                                                                                                                                                                                                          |                  |                  |                                                                |



STATEMENT II-A.—Details of Allotment for Expenditure on Public Works executed by the Special Works Department, and estimated to cost Rs. 100 or upwards.

Part I—New Works.

| No. | Particulars.                                                                                                                                                                                                                      | Revised Estimate Grant. | Expenditure during the year. | REMARKS.     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|--------------|
|     |                                                                                                                                                                                                                                   | Rs.                     | Rs.                          |              |
|     | Brought forward ...                                                                                                                                                                                                               |                         |                              |              |
|     | GRANT I.—Public Works—(Contd.).                                                                                                                                                                                                   |                         |                              |              |
|     | 1. NEW WORKS—(Contd.).                                                                                                                                                                                                            |                         |                              |              |
|     | (c) Drainage—Special—(Contd.).                                                                                                                                                                                                    |                         |                              |              |
|     | Madras Main Drainage—(Contd.).                                                                                                                                                                                                    |                         |                              |              |
| 2   | Open channel at Sewage Farm, New Road, Bridges, Sluices, &c. ...                                                                                                                                                                  | ...                     | ...                          | Completed.   |
| 3   | Raising existing 36" cast iron pipes at Sewage Farm and relaying them together with certain new pipes and specials as a raising main from Royapuram Pumping Station to the Belmouth Chamber at the head of 4 ft. 6 inch Sewer ... | ...                     | ...                          | Do.          |
| 4   | Circular Brick sewer 5 feet 6 inch and 4 feet 6 inch diameter to carry all the sewage from Suryanarayana Chetty Street, George-town and Tondiarpet to the Farm Pumping Station ...                                                | 1,000                   | Cr. 78                       | Do.          |
| 5   | Sewage Farm Pumping Station buildings, sewers, overflows, &c. ...                                                                                                                                                                 | 30,000                  | 146                          |              |
| 6   | Machinery ...                                                                                                                                                                                                                     | 40,000                  | 25,770                       |              |
| 7   | Laying 36 inch brick gravitation main from near Paracherry Road to the Farm Station.                                                                                                                                              | ...                     | ...                          |              |
| 8   | Sewage Farm work ...                                                                                                                                                                                                              | ...                     | ...                          | Do.          |
| 9   | Laying 16 inch cast iron main pipe from Law College Pumping Station to Royapuram Pumping Station...                                                                                                                               | ...                     | ...                          | Do.          |
|     | Tondiarpet Drainage.                                                                                                                                                                                                              |                         |                              |              |
| 10  | Stoneware pipe sewers ...                                                                                                                                                                                                         | 10,000                  | 8,209                        | Do.          |
| 11  | Cast iron pipe sewers ...                                                                                                                                                                                                         | 100                     | 8                            | Do.          |
| 12  | Brick sewers ...                                                                                                                                                                                                                  | ...                     | "                            | Do.          |
| 13  | Manholes ...                                                                                                                                                                                                                      | 1,000                   | 63                           | Do.          |
| 14  | General, i.e., ventilating columns, timber left in trenches, flushing chambers and restoring road surfaces ...                                                                                                                    | 5,000                   | 630                          | Do.          |
| 15  | House connection to sewers ...                                                                                                                                                                                                    | 3,000                   | 3,269                        | Do.          |
| 16  | Alterations to house drainage ...                                                                                                                                                                                                 | 75,000                  | 65,067                       | In progress. |
| 17  | Overflows (A. B. & C.) ...                                                                                                                                                                                                        | 500                     | ...                          | Completed.   |
|     | Carried over ...                                                                                                                                                                                                                  | 1,65,600                | 1,03,084                     |              |

STATEMENT II-A.—Details of Allotment for Expenditure on Public Works executed by the Special Works Department, and estimated to cost Rs. 100 or upwards.

Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                        | Revised Estimate Grant. | Expenditure during the year. | Remarks.                              |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------------------------------|
|     |                                                                                                                                     | Rs.                     | Rs.                          |                                       |
|     | Brought forward ...                                                                                                                 | 1,65,600                | 1,03,084                     |                                       |
|     | GRANT I.—Public Works—(Contd.)                                                                                                      |                         |                              |                                       |
|     | 1. NEW WORKS (Contd.)                                                                                                               |                         |                              |                                       |
|     | (c) Drainage—Special—(Contd.)                                                                                                       |                         |                              |                                       |
|     | Tondiarpet Drainage—(Contd.)                                                                                                        |                         |                              |                                       |
| 18  | Pumping Stations, including Engine Houses, Receiving Chambers, Office Tools and Store Room, Latrine, Compound Wall, Machinery, etc. |                         |                              |                                       |
|     | A. Station ... ..                                                                                                                   |                         |                              |                                       |
|     | B. Do. ... ..                                                                                                                       | 1,500                   | 753                          | Completed.                            |
|     | C. Do. ... ..                                                                                                                       |                         |                              |                                       |
| 19  | Acquisition of Land ... ..                                                                                                          | ...                     | ...                          | Do.                                   |
| 20  | Contingencies ... ..                                                                                                                | 7,000                   | 3,039                        |                                       |
| 21  | 25 sets of medium size storm water separators for Tondiarpet ... ..                                                                 | 250                     | 789                          | Do.                                   |
|     | Miscellaneous Works.                                                                                                                |                         |                              |                                       |
| 22  | New Sewage Farm, North of Tiruvottiyur and East of Ennore Road ... ..                                                               | 2,000                   | 1,494                        | Preparation of scheme is in progress. |
| 23  | Installation of a temporary pumping station at Buckingham Canal, South of Pycroft's Road ... ..                                     | 8,000                   | 3,646                        | Completed.                            |
| 24  | Storm Water Drainage of North Triplicane.                                                                                           | 10,000                  | 13,637                       | In progress.                          |
|     | General Scheme.                                                                                                                     |                         |                              |                                       |
| 25  | Drainage of Mylapore Area ... ..                                                                                                    | 18,000                  | 7,754                        | Do.                                   |
| 26  | Do. Ice House Road Area ... ..                                                                                                      | 50,000                  | 31,262                       | Do.                                   |
| 27  | Do. Edward Elliot's Road Area ... ..                                                                                                | 500                     | ...                          |                                       |
| 28  | Do. Napier Park Area ... ..                                                                                                         | 75,000                  | 70,863                       | Do.                                   |
| 29  | Do. Graem's Road Area ... ..                                                                                                        | 1,000                   | ...                          |                                       |
| 30  | Do. Lang's Garden Area ... ..                                                                                                       | 1,000                   | ...                          |                                       |
| 31  | Do. Purasawakkam Area ... ..                                                                                                        | 65,000                  | 1,21,238                     | Do.                                   |
| 32  | Do. Law College Area ... ..                                                                                                         | 5,000                   | 1,230                        | Do.                                   |
| 33  | Do. Royapuram Area ... ..                                                                                                           | 1,00,000                | 91,357                       | Do.                                   |
|     | Carried over ...                                                                                                                    | 5,09,850                | 4,50,146                     |                                       |



STATEMENT II-A.—Details of Allotment for Expenditure on Public Works executed by the Special Works Department, and estimated to cost Rs. 100 or upwards.

Part I—New Works—(Continued).

| No. | Particulars.                                                                                             | Revised Estimate Grant. | Expenditure during the year. | Remarks.      |
|-----|----------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------|
|     |                                                                                                          | Rs.                     | Rs.                          |               |
|     | Brought forward ...                                                                                      | 5,09,850                | 4,50,146                     |               |
|     | GRANT I.—Public Works—(Contd.)                                                                           |                         |                              |               |
|     | 1. NEW WORKS—(Contd.)                                                                                    |                         |                              |               |
|     | (c) Drainage—Special—(contd.)                                                                            |                         |                              |               |
|     | General Scheme—(Contd.).                                                                                 |                         |                              |               |
| 34  | Allowance for Drainage of Tondiarpet, North Area ...                                                     | 1,000                   | ...                          |               |
| 35  | Gravitation mains, intercepting sewers, &c. ...                                                          | 70,000                  | 44,458                       | In progress   |
| 36  | Pumping mains, branch mains, &c. ...                                                                     | 1,000                   | ...                          |               |
| 37  | Alteration of house drainage in George Town ...                                                          | 40,000                  | 4,788                        | Do.           |
| 38  | Alterations to house drainage wherever necessary, &c. ...                                                | 30,000                  | 14,246                       |               |
|     | Various other items.                                                                                     |                         |                              |               |
| 39  | Supplies and services (Home Charges) ...                                                                 | 5,000                   | 7,394                        |               |
| 40  | Miscellaneous such as Stationery, Tools and Plant, &c. ...                                               | 20,000                  | 18,690                       |               |
| 41  | Stores (Suspense account) ...                                                                            | 1,50,000                | 3,41,807                     |               |
| 42  | Special Engineer's Office Latrine ...                                                                    | ...                     | Cr. 720                      |               |
|     |                                                                                                          | 8,26,850                | 8,60,809                     |               |
|     | Realization by sales of stores ..                                                                        | Cr. 1,50,000            | Cr. 2,93,797                 |               |
|     | Total ...                                                                                                | 6,76,850                | 5,87,012                     |               |
|     | (c) Drainage—Ordinary                                                                                    |                         |                              |               |
| 1   | Construction of side drains and water-tables :—                                                          |                         |                              |               |
| 1   | Constructing storm water drain in Shaik Maistri Street, Tondiarpet ...                                   | 4,600                   | 1,706                        | In progress.  |
| 2   | Constructing a storm water drain in East Madah Church Street near Kasimodu ...                           | 400                     | 308                          | Paid in full. |
| 3   | Constructing a masonry drain from Murugappa Mudali Street to Kandappa Mudali High Road, Purasawaukam ... | 240                     | 238                          | Do.           |
| 4   | Constructing a 6" drain in Raghava Chetti Street, Purasawaukam ...                                       | 1,230                   | 1,229                        | Do.           |
| 5   | Constructing a 4" drain in the hospital plain, Purasawaukam... ..                                        | 880                     | 879                          | Do.           |
| 6   | Constructing a 8" masonry drain in Edward's lane, Kosapet ... ..                                         | 1,175                   | 934                          | Do            |
|     | Carried over ...                                                                                         | 8,525                   | 5,294                        |               |

## APPENDIX I.

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STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                             | Revised Estimate Grant. | Expenditure during the year. | REMARKS.      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------|
|     |                                                                                                                                          | Rs.                     | Rs.                          |               |
|     | Brought forward ..                                                                                                                       | 8,525                   | 5,294                        |               |
|     | GRANT I.—Public Works—(Contd.)                                                                                                           |                         |                              |               |
|     | 1. NEW WORKS—(Contd.)                                                                                                                    |                         |                              |               |
|     | (c) Drainage—Ordinary—(Contd.)                                                                                                           |                         |                              |               |
| 7   | Constructing masonry side drains and covering them with cut-stones in Ashtabujam Road ... ..                                             | 220                     | 219                          | Paid in full. |
| 8   | Connecting drain from toddy shop to the sewer at De Mellow's Road, Chulai ...                                                            | 100                     | 90                           | Do            |
| 9   | Making 4" connection with the cistern and constructing silt catcher chambers at the end of Satanna Naick Street to the South ...         | 200                     | 173                          | Completed.    |
| 10  | Connecting drain to the sewer and constructing silt pit and fixing cast iron gratings in Tucker Street, Popham's Broadway ...            | 430                     | 440                          | Do            |
| 11  | Constructing a silt pit in Anna Pillai Street, Georgetown ... ..                                                                         | 175                     | 133                          | Do            |
| 12  | Constructing three silt pits in Tirupalli Street, Georgetown ... ..                                                                      | 520                     | 407                          | Do            |
| 13  | Constructing silt pits in Wall Tax Road ..                                                                                               | 325                     | 188                          | Do            |
| 14  | Remodelling a Tipping depot in Langs Garden Road ... ..                                                                                  | 180                     | 104                          | Do            |
| 15  | Constructing masonry side drain in Begum Sahib Street in Suparigunta Paracheri ...                                                       | 420                     | 332                          | Paid in full. |
| 16  | Curbing and covering the existing masonry drain running through the property of late Mr. Buchi Babu Naidu ... ..                         | 510                     | 439                          | Completed.    |
| 17  | Demolishing the old syphons and replacing the same at Sadayappa Mudali Street, Mylapore ... ..                                           | 475                     | 349                          | Do            |
| 18  | Removing the existing broken pipes and relaying with 6" stoneware pipes in Arunagiri Mudali Street, Mylapore ... ..                      | 1,950                   | 1,161                        | Do            |
| 19  | Constructing a 9" masonry drain in Dharma-raja Covil Street ... ..                                                                       | 265                     | 265                          | Paid in full. |
| 20  | Constructing a drain in Arunachala Pandaram Street ... ..                                                                                | 430                     | 431                          | Do.           |
| 21  | Diverting foul water into the drain at Nurses quarters, Royapettah Hospital ... ..                                                       | 120                     | 119                          | Do.           |
| 22  | Diverting the drain in Singanna Naick Street owing to the widening of the Street and carrying out house connections in the Street ... .. | 310                     | 310                          | Do.           |
| 23  | Constructing a manhole in Adanja Mudali Street, Mylapore ... ..                                                                          | 130                     | 131                          | Do.           |
| 24  | Constructing manholes in Mandavalli Street, Mylapore ... ..                                                                              | 170                     | 166                          | Do.           |
|     | Carried over ...                                                                                                                         | 15,455                  | 10,751                       |               |



## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                                                           | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                           |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|--------------------------------------------------------------------|
|     |                                                                                                                                                                        | Rs.                     | Rs.                          |                                                                    |
|     | Brought forward ...                                                                                                                                                    | 15,455                  | 10,751                       |                                                                    |
|     | GRANT I.—Public Works—(Contd.)                                                                                                                                         |                         |                              |                                                                    |
|     | 1. NEW WORKS—(Contd.)                                                                                                                                                  |                         |                              |                                                                    |
|     | (c) Drainage—Ordinary—(Concl'd.)                                                                                                                                       |                         |                              |                                                                    |
| 25  | Constructing manholes in Brodies Road, Singara Naicken Street, Mudurama Mudali Street, Selva Vinayagar Coil Street, and Paripurana Vinayagar Coil Street, Mylapore ... | 345                     | 344                          | Paid in full.                                                      |
| 26  | Constructing a 4" masonry side drain in Raghava Chetti Street (Eastern half), 11th Division ...                                                                        | ...                     | 539                          | { Sanctioned by S. C. on 29-10-15.<br>Completed. Met from Savings. |
| III | Petty works ...                                                                                                                                                        | 600                     | 727                          | Excess met from savings for minor works carried out.               |
|     | Total ...                                                                                                                                                              | 16,400                  | 12,361                       |                                                                    |
|     | (d) Water supply—Special.                                                                                                                                              |                         |                              |                                                                    |
|     | Main Works.                                                                                                                                                            |                         |                              |                                                                    |
| 1   | Completing the outlet tower at Red Hills and Bridge ...                                                                                                                | ...                     | 8                            | Completed.                                                         |
| 2   | Settling basin and valve house ..                                                                                                                                      | 2,000                   | 2,198                        | Do.                                                                |
| 3   | Conduit 7 miles long from settling basin to filter beds ...                                                                                                            | 300                     | 272                          | Do.                                                                |
| 4   | Filter beds ...                                                                                                                                                        | 50,000                  | 49,325                       | Do.                                                                |
| 5   | Filtered water reservoir ...                                                                                                                                           | 200                     | 125                          | Do.                                                                |
| 6   | Engine and Boiler House and Engine foundations, pump, well and chimney ...                                                                                             | 10,000                  | 8,130                        | Do.                                                                |
| 7   | Engines, pumps and boilers ...                                                                                                                                         | 10,000                  | 10,000                       | Do.                                                                |
| 8   | Elevated tank (1) Steel tank ...<br>(2) Masonry substructure... }                                                                                                      | 10,000                  | 9,787                        | Do.                                                                |
| 9   | Other Works—Subsidiary buildings ...                                                                                                                                   | 1,000                   | 336                          | Do.                                                                |
| 10  | Pumping main ...                                                                                                                                                       | 2,500                   | 2,528                        | Do.                                                                |
| 11  | Land-fencing round filter beds, &c. ...                                                                                                                                | 8,000                   | 7,235                        | Nearly completed.                                                  |
| 12  | Connection between delivery channel and filter beds ...                                                                                                                | ...                     | ...                          | Completed.                                                         |
| 13  | Seven additional filter beds and an additional pure water tank ...                                                                                                     | 5,000                   | 2,489                        |                                                                    |
|     | Distribution Works.                                                                                                                                                    |                         |                              |                                                                    |
| 14  | Pipes, specials, valves, meters, including laying ...                                                                                                                  | 3,00,000                | 2,66,488                     | In progress.                                                       |
| 15  | Masonry works connected with Distribution works ...                                                                                                                    | ...                     | ...                          |                                                                    |
| 16  | Connections to existing and new system at Kilpauk Shaft ...                                                                                                            | ...                     | 2,757                        | Completed.                                                         |
|     | Carried over ..                                                                                                                                                        | 3,99,000                | 3,61,678                     |                                                                    |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I.—New Works—(Continued).

| No. | Particulars.                                                                                                     | Revised Estimate Grant. | Expenditure during the year. | REMARKS.      |
|-----|------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------|
|     |                                                                                                                  | Rs.                     | Rs.                          |               |
|     | Brought forward ...                                                                                              | 3,99,000                | 3,61,678                     |               |
|     | GRANT I.—Public Works—(contd.)                                                                                   |                         |                              |               |
|     | 1. NEW WORKS—(contd.)                                                                                            |                         |                              |               |
|     | (d) Water supply—Special—Concl'd.)                                                                               |                         |                              |               |
|     | Distribution Works—(Concl'd)                                                                                     |                         |                              |               |
| 17  | Contingencies ...                                                                                                | 10,000                  | 3,246                        |               |
| 18  | Meter connection Works ...                                                                                       | 5,620                   | ...                          |               |
| 19  | Supplies and Services (Home charges) ...                                                                         | 5,000                   | 5,693                        |               |
| 20  | Miscellaneous such as tools and plant, etc. ...                                                                  | 10,900                  | 5,330                        |               |
| 21  | Stores (Suspense account) ...                                                                                    | 50,000                  | 93,855                       |               |
|     |                                                                                                                  | 4,79,620                | 4,69,802                     |               |
|     | Realization by sales of stores ...                                                                               | Cr. 50,000              | Cr. 46,371                   |               |
|     | Total ...                                                                                                        | 4,29,620                | 4,23,431                     |               |
|     | (d) Water-Supply (Ordinary.)                                                                                     |                         |                              |               |
| 1   | Purchasing and fixing meters :—                                                                                  |                         |                              |               |
| 1   | Fixing one 3" crown meter at Workshop ...                                                                        | 700                     | 690                          | Paid in full. |
| 2   | Manufacturing 12 meter doors wrought iron 2½" x 2" for Water Works Overseer, 16th and 17th Divisions ...         | 310                     | 252                          | Do.           |
| 3   | Fixing 1½" meter to the 3" service connection at the east gate of the Medical College, General Hospital Road ... | 260                     | 260                          | Do.           |
| 4   | Fixing 1" meter to premises No. 34, Muker-Nallamuthu Chetti Street (hotel) ...                                   | 120                     | 66                           | Do.           |
| 5   | Fixing 1" meter to premises No. 42, Mannadi Street (hotel) ...                                                   | 120                     | 71                           | Do.           |
| 6   | Purchasing spare Meters for the use of Water Works Overseer, 6th and 7th Divisions ...                           | 110                     | 108                          | Do.           |
| 7   | Fixing 1½" meter (Tylor and Sons) for Harris School, Peters Road ...                                             | 140                     | 76                           | Do.           |
| 8   | Fixing one 1½" and one 1¼" meter to the Dhobykhana at Chetput ...                                                | 280                     | 183                          | Do.           |
| 9   | Fixing one 1" meter to Wesley Girls' School at Peters Road ...                                                   | 110                     | 102                          | Do.           |
| 10  | Fixing 1" meter to premises No. 132, Broadway (Madras Laundry) ...                                               | 120                     | 84                           | Do.           |
| 11  | Fixing 1" meter to premises No. 133, Broadway (Georgetown Laundry) ...                                           | 120                     | 88                           | Do.           |
| 12  | Fixing 1½" meter to premises No. 3, in General Collin's Road ...                                                 | 150                     | 119                          | Do.           |
| 13  | Fixing 1½" meter to the chunam grinding enclosure of Buckingham Mills, Stephenson's Road ...                     | 130                     | 114                          | Do.           |
|     | Carried over ...                                                                                                 | 2,670                   | 2,213                        |               |



STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                                                                                      | Revised Estimate | Expenditure      | REMARKS.                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|----------------------------------------------------------------|
|     |                                                                                                                                                                                                   | Grant.           | during the year. |                                                                |
|     |                                                                                                                                                                                                   | Rs.              | Rs.              |                                                                |
|     | Brought forward ...                                                                                                                                                                               | 2,670            | 2,213            |                                                                |
|     | GRANT I.—Public Works—(Contd).                                                                                                                                                                    |                  |                  |                                                                |
|     | I. NEW WORKS—(Contd).                                                                                                                                                                             |                  |                  |                                                                |
|     | (d) Water-Supply (Ordinary) (Contd.)                                                                                                                                                              |                  |                  |                                                                |
| 14  | Fixing 1" meter to the hotel premises in No. 25, Pycroft's Road ...                                                                                                                               | 105              | 72               | Paid in full.                                                  |
| 15  | Fixing a 1" meter to the premises No. 20 in Mount Road ...                                                                                                                                        | 105              | 79               | Completed.                                                     |
| 16  | Fixing 1" meter to the premises No. 78, Viraraghava Mudaly Street, Triplicane ...                                                                                                                 | 105              | 33               | Do.                                                            |
| 17  | Fixing 1" meter to the Carnatic Mill School in Gantz Road, 10th Division ...                                                                                                                      | 100              | 10               | Do.                                                            |
| 18  | Fixing 1" meter to the cattle market No. 89, Puhantope Road, 10th Division ...                                                                                                                    | 100              | 26               | Do.                                                            |
| 19  | Fixing 1" meter to premises No. 37, in De-Mellow's Road, 10th Division ...                                                                                                                        | 100              | 25               | Do.                                                            |
| 20  | Fixing 1" meter to the Model School in Triplicane High Road ...                                                                                                                                   | 115              | 77               | Do.                                                            |
| 21  | Fixing meters—Petty works ...                                                                                                                                                                     | 5,600            | 6,128            | Excess met from savings.                                       |
| (a) | Fixing 1" meter to premises No. 1/155, Mount Road ...                                                                                                                                             | ...              | 7                | Completed. Met from savings. Standing Committee 29-10-15.      |
| (b) | Fixing 1" meter after connecting four connections into one in European Convent, Rosary Church Road ...                                                                                            | ...              | 202              | { Standing Committee 12-11-15.<br>Completed. Met from savings. |
| 11  | Purchasing and fixing hydrants ...                                                                                                                                                                | 500              | 153              | ...                                                            |
| III | Petty works :—                                                                                                                                                                                    |                  |                  |                                                                |
| 1   | Extending the existing 4" main at the eastern end of Subbaroya Mudali Street for laying 4" C. I. pipes and connecting with the existing 2" main in front of motor fire engine shed at Pudupet ... | 240              | 178              | Paid in full.                                                  |
| 2   | Cleaning 275 feet of 2" pipe in Murugappa Mudali Street ...                                                                                                                                       | 120              | 119              | Do.                                                            |
| 3   | Cleaning 840 feet of 2½" C. I. pipe in Audiappa Mudali Street to the junction of Pathala Ponniammen Coil Street from the 8" main in Venaitertha Mudaly Street, Purasawakam ...                    | 190              | 65               | Estimate to be cancelled as S. W. D is laying 4" main.         |
| 4   | Cleaning 910 feet of 2" C. I. pipe in Saravana Perumall Mudali Street from Ramasami Pillai Street to the junction of Audiappa Mudali Street, Purasawakam ...                                      | 200              | 120              | Completed.                                                     |
| 5   | Taking connection from the 2" main in Polu Naicken Street and laying 324 feet of 2" pipe for supplying water to the new latrine in the above street ...                                           | 240              | 229              | Paid in full.                                                  |
|     | Carried over ..                                                                                                                                                                                   | 10,490           | 9,736            |                                                                |

STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

Part I—New Works—(Continued).

| No. | Particulars.                                                                                                                                                  | Revised Estimate Grant. | Expenditure during the year. | REMARKS.            |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------------|
|     | Brought forward ...                                                                                                                                           | Rs.<br>10,490           | Rs.<br>9,736                 |                     |
|     | GRANT I.—Public Works (contd.)                                                                                                                                |                         |                              |                     |
|     | 1.—NEW WORKS (contd.)                                                                                                                                         |                         |                              |                     |
|     | (d) Water-Supply (Ordinary) (contd.)                                                                                                                          |                         |                              |                     |
| 6   | Cleaning 550 feet of 3 inch and 750 feet of 2½" pipe in Jani Patcha and Hussain Mulk Streets ... ..                                                           | 330                     | 240                          | Completed.          |
| 7   | Laying 3 inch pipe from 4 inch main in Kathbada Street and fixing a fountain in the middle of the 3rd street ... ..                                           | 300                     | 287                          | Paid in full.       |
| 8   | Laying 400 feet of 1½ inch pipe and fixing a fountain in Barbers' Bridge 1st Lane ... ..                                                                      | 180                     | 154                          | Do.                 |
| 9   | Fixing a fountain in Mylapore Bazaar Lane ... ..                                                                                                              | 125                     | 118                          | Do.                 |
| 10  | Cleaning 1000 feet of 3 inch, 2½" and 2" pipes in Mandavalli Street, Mylapore ... ..                                                                          | 270                     | 208                          | Completed.          |
| 11  | Cleaning 2" pipe in Perianna Mudali Street between Anaikarakonan Street and Barracks Street ... ..                                                            | 120                     | 109                          | Paid in full.       |
| 12  | Cleaning the pipes in Venkatarangam Pillai Street, Cundappa Mudali Street and Murugappa Mudali Street ... ..                                                  | 290                     | 127                          | Completed.          |
| 13  | Cleaning 685 feet of 2" C. I. pipe in Arimuthu Mudali Street, Chulai, from the junction of Vathiar Kanda Pillai Street up to Verkatchala Mudali Street ... .. | 175                     | 108                          | Paid in full.       |
| 14  | Cleaning 2½" pipe in South Madah Street from Thengur Selva Vinayagar Covil Street to Brodies Road ... ..                                                      | 210                     | 72                           | Estimate cancelled. |
| 15  | Cleaning 700 feet of 2" C. I. pipe in Perumal Reddi Street, Egmore, from the fountain in the middle of the street towards west ... ..                         | 170                     | 111                          | In progress.        |
| 16  | Cleaning 550 feet of 2" C. I. pipe in Cundappa Mudali Street from the junction of 1st Salai Street to Vencatchala Mudali Street ... ..                        | 150                     | 59                           | Estimate cancelled. |
| 17  | Cleaning 1400 feet of pipe in Paripurana Vinayagar Covil Street and Nattuvachi Mudaliar Street ... ..                                                         | 260                     | 211                          | Paid in full.       |
| 18  | Cleaning pipe in Muthu Mudali Street and Varasidhi Vinayagar Covil Street, Teynampet ... ..                                                                   | 230                     | 259                          | Do.                 |
| 19  | Constructing a new cattle trough with water, pipe, etc., in Wall Tax Road adjoining julka stand. ... ..                                                       | 110                     | 30                           | Completed.          |
| 20  | Cleaning 2½" and 2" C. I. pipe to a distance of 600 feet in Pelathope Street, Mylapore... ..                                                                  | 125                     | 103                          | Paid in full.       |
| 21  | Laying 350 feet of old pipes 2½" for dead end connection in Vadagoor Selva Vinayagar Covil Street ... ..                                                      | 120                     | 8                            | Completed.          |
| 22  | Removing 810 feet of 2" rotten pipe and laying a new pipe in Graeme's Lane, 15th Division ... ..                                                              | 240                     | 228                          | Paid in full.       |
|     | Carried over ...                                                                                                                                              | 13,895                  | 12,168                       |                     |



## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part I—New Works—(Concluded).

| No. | Particulars.                                                                                                                                                                                                              | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------|
|     | Brought forward ...                                                                                                                                                                                                       | Rs.<br>13,895           | Rs.<br>12,168                |                                                                                                                |
|     | GRANT I.—Public Works (contd.)<br>1.—New Works (concl'd.)<br>(d) Water-Supply (Ordinary) (concl'd.)                                                                                                                       |                         |                              |                                                                                                                |
| 23  | Acquisition of land in R. S. Nos. 1090 and 1020 in Moneghar Choultry Road for laying a 9" water pipe and valve ...                                                                                                        | 520                     | 514                          | Paid in full.                                                                                                  |
| 24  | Petty works ...                                                                                                                                                                                                           | 1,835                   | 1,405                        |                                                                                                                |
| (a) | Extending 400 feet of 2" C. I. pipe and fixing a fountain in Alwarpet Pilliar Covil Street, 20th Division ...                                                                                                             | ...                     | 81                           | Standing Committee, 10-12-15. Completed.                                                                       |
|     | Total :—                                                                                                                                                                                                                  | 16,250                  | 14,168                       |                                                                                                                |
|     | (e) Miscellaneous.                                                                                                                                                                                                        |                         |                              |                                                                                                                |
| 1   | Putting up a rail fence with M. S. M. rails above river bank on the north side of Anderson Road in Nungambakam ...                                                                                                        | 1,110                   | 886                          | Completed.                                                                                                     |
| 3   | Acquisition of land in R. S. No. 3756 of Tondiarpet required for a settlement of washermen in North Madras ...                                                                                                            | 10,384                  | ...                          | Permission from Government to utilize the grant for construction of a dhobikhana in Robinson Park, is awaited. |
| 4   | Compensation for the building and trees on the land in R. S. No. 999 of Mylapore alienated in favour of the Corporation for improving the road at the junction of Barbers' Bridge Road and Caraneswarer Pagoda Street ... | 600                     | 600                          | Paid in full.                                                                                                  |
| 5   | Acquisition of land in R. S. No. 3,151 of Purasawakam for a pathway for the carts to approach the Kilpauk shaft for carting pipes, etc. ...                                                                               | 160                     | ...                          | Acquisition not taken on hand.                                                                                 |
| 6   | Excess compensation awarded by Court in the case of the acquisition of land in R. S. No. 1054 of vepery to connect Vadhyar Kanda Pillai Street with Sawmy Pillai Street, Chulai ...                                       | 410                     | 409                          | Paid in full.                                                                                                  |
| 7   | Acquisition of land and structure in R. S. No. 1192 of Egmore in Harris Road for the construction of a cart stand ...                                                                                                     | 1,940                   | 1,939                        | Do.                                                                                                            |
| 8   | Pay of the Special Deputy Collector for the acquisition of land and his staff ...                                                                                                                                         | 3,370                   | 3,367                        | ...                                                                                                            |
| 9   | Putting up a tennis court for the employees of the Corporation ...                                                                                                                                                        | 500                     | 288                          | In progress.                                                                                                   |
| 10  | Raking out the ground and filling in sand at the proposed park in Peddunaick Street.                                                                                                                                      | 820                     | 645                          | Completed.                                                                                                     |
| 11  | Petty works ...                                                                                                                                                                                                           | 400                     | ...                          |                                                                                                                |
| (a) | Making drainage and water connections for the model houses at the Industrial Exhibition, People's Park ...                                                                                                                | ...                     | 521                          | Completed. Met from—Petty works.                                                                               |
| (b) | Debit adjustment owing to the site of the filled up tank in Egmore having been taken over by the Corporation from the owners of the tank in lieu of the cost of filling up the same ...                                   | ...                     | 5,000                        | Met from savings.                                                                                              |
|     | Total ...                                                                                                                                                                                                                 | 19,694                  | 13,655                       |                                                                                                                |

# APPENDIX I.

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STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part II.—Repairs.

| No. | Particulars.                                                                                                                                                  | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                        |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-----------------------------------------------------------------|
|     | <b>GRANT I.—Public Works—(Contd).</b>                                                                                                                         | <b>Rs.</b>              | <b>Rs.</b>                   |                                                                 |
|     | <b>II REPAIRS.</b>                                                                                                                                            |                         |                              |                                                                 |
|     | <b>(a) Communications.</b>                                                                                                                                    |                         |                              |                                                                 |
| 1   | Remetalling of Roads ... ..                                                                                                                                   | 2,50,000                | 2,77,680                     | Excess met from savings under new works communications.         |
| 2   | Labour for rolling ... ..                                                                                                                                     | 9,000                   | 6,937                        |                                                                 |
| 3   | Fuel, oil, sundries, repairs &c for road rollers... ..                                                                                                        | 18,000                  | 14,763                       |                                                                 |
| 4   | Repairs, materials ... ..                                                                                                                                     | 40,000                  | 44,357                       | Excess to be met from general savings from the closing balance. |
| 5   | Repairs to culverts and foot paths ... ..                                                                                                                     |                         |                              |                                                                 |
| (a) | Extending the culvert at the junction of Kelley's Road and Purasawaukam High Road, for widening the road ... ..                                               | 215                     | 215                          | Paid in full.                                                   |
| (b) | Constructing side walls, &c. to storm water drain &c., in the portion acquired at the junction of Mowbray's Road and Oliver's Road with covering stone ... .. | 2,200                   | 1,816                        | Do.                                                             |
| (c) | Constructing platform for hackney carriage stand at the junction of Wall Tax Road and General Hospital Road ... ..                                            | 1,970                   | 1,595                        | Completed.                                                      |
| (d) | Enlarging the culverts and constructing retaining wall opposite the Volunteer Guards Quarters, Poonamallee High Road ... ..                                   | 3,680                   | 2,242                        | Do.                                                             |
| (e) | Repairing the culverts in 19th and 20th Divisions by replacing the broken granite stones ... ..                                                               | 220                     | ...                          | Not begun as granite stones are not available at stores.        |
| (f) | Repairs to culverts in Cochrane Basin Road.                                                                                                                   | 165                     | ...                          | Completed.                                                      |
| (g) | Widening the culvert No. 2 in DeMellow's Road with old rail lintels in the 10th Division ... ..                                                               | 700                     | ...                          | In progress.                                                    |
| (h) | Constructing a foot-path along Mount Road from Wood's Road up to Nailer's ... ..                                                                              | 5,200                   | 5,103                        | Completed.                                                      |
| (i) | Providing barbed wire fencing to a length of 490 feet by the side of the storm water drain in Iyasawmy Pillai Street ... ..                                   | 140                     | ...                          | Work abandoned.                                                 |
| (j) | Widening culvert No. 1 by 4 ft. on the Northern side of DeMellow's Road ... ..                                                                                | 370                     | 370                          | Paid in full.                                                   |
| (k) | Removing the parapet wall in front of model school at Arunachala Naick Road and covering the drain with granite slabs ... ..                                  | 570                     | 572                          | Do.                                                             |
| (l) | Extending the culvert at the junction of Pantheon Road and Commander-in-Chief's Road ... ..                                                                   | 325                     | 325                          | Do.                                                             |
| (m) | Repairs to culverts and drains in Audiappa Mudali Street, Monegar Choultry Road ... ..                                                                        | 825                     | 825                          | Do.                                                             |
| (n) | Dismantling and reconstructing the culvert in Anderson Road at the junction of Moor's Road, Nungambaukam ... ..                                               | 430                     | 430                          | Do.                                                             |
| (o) | Petty works ... ..                                                                                                                                            | 1,120                   | 1,172                        |                                                                 |
|     | Carried over ... ..                                                                                                                                           | 3,35,130                | 3,58,402                     |                                                                 |



**STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.**

**Part II.—Repairs—(Continued).**

| No. | Particulars.                                                                                                                                            | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                                            |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|
|     |                                                                                                                                                         | Rs.                     | Rs.                          |                                                                                                     |
|     | Brought forward ..                                                                                                                                      | 3,35,130                | 3,58,402                     |                                                                                                     |
|     | <b>GRANT I.—Public Works—(Contd).</b>                                                                                                                   |                         |                              |                                                                                                     |
|     | <b>II. REPAIRS—(Contd).</b>                                                                                                                             |                         |                              |                                                                                                     |
|     | <b>(a) Communications—(Contd).</b>                                                                                                                      |                         |                              |                                                                                                     |
| (f) | Doing connection of drain and constructing a chamber at the end of hackney carriage stand and urinal newly constructed at Wall Tax Road ... ..          | ...                     | ...                          | Standing Committee 17-3-16. The work is in progress in 16-17. To be met from savings of item 5 (c). |
| 6   | Repairs to bridges—Canal bridges ...                                                                                                                    |                         |                              |                                                                                                     |
| (a) | Painting Napier Bridge by Messrs. Wilson & Co. ... ..                                                                                                   | 1,865                   | 1,866                        | Paid in full.                                                                                       |
| (b) | Repairing the broken bays of wooden railings of the Government House Bridge in Mount Road ... ..                                                        | 160                     | 60                           | Do.                                                                                                 |
| (c) | Repairing the 9th and 10th bays of the eastern side railing of Government House Bridge in Mount Road... ..                                              | 135                     | 141                          | Do.                                                                                                 |
| (d) | Painting the wooden railings of the Government House Bridge in Mount Road...                                                                            | 350                     | 350                          | Do.                                                                                                 |
| (e) | Repairing the four broken bays of the teak-wood railings of the Government House Bridge in Mount Road ... ..                                            | 685                     | 683                          | Do.                                                                                                 |
| (f) | Repairing the bridge at Sunkuwar Street across Buckingham Canal ... ..                                                                                  | 200                     | 138                          | Do.                                                                                                 |
| (g) | Removing the old wooden bridge and laying concrete with iron band railings over the drain at the east end of Fycrofts Road near Buckingham Canal ... .. | 200                     | 199                          | Do.                                                                                                 |
| (h) | Petty works ... ..                                                                                                                                      | 1,405                   | 556                          | ...                                                                                                 |
| (i) | Repairs to Poonthottam and Soolai Cathai Bridges in Mylapore ... ..                                                                                     | ...                     | ...                          | Corporation 16-11-15. Completed.. To be met from general savings from the closing balance.          |
| 7   | Tarring roads ... ..                                                                                                                                    | 15,000                  | 22,121                       | Includes value of stock on hand.                                                                    |
| 8   | Petty works :—                                                                                                                                          |                         |                              |                                                                                                     |
| (a) | Repairing the existing wire fencing in Popham's Esplanade and Fraser Bridge Road ... ..                                                                 | 120                     | 106                          | Paid in full.                                                                                       |
| (b) | Repairing the wire fencing in Benfield Road to a distance of 600 feet... ..                                                                             | 150                     | 84                           | Completed.                                                                                          |
| (c) | Providing wrought iron pipe fencing with C. I. verticals for Cupid's Bow Garden ..                                                                      | 290                     | 291                          | Paid in full.                                                                                       |
| (d) | Laying pipe fencing all round the open land in Leonard Street ... ..                                                                                    | 110                     | ...                          | Completed.                                                                                          |
| (e) | Shifting 10 electric tramway poles and one telephone pole in North Beach Road near Clive's Battery ... ..                                               | 1,445                   | 1,446                        | Paid in full.                                                                                       |
|     | Carried over ..                                                                                                                                         | 3,57,245                | 3,86,443                     |                                                                                                     |

## APPENDIX I.

8E

STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part II.—Repairs—(Continued).

| No. | Particulars.                                                                                                                                                        | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|------------------------------------------------------------|
|     | Brought forward ...                                                                                                                                                 | Rs.<br>3,57,245         | Rs.<br>3,86,443              |                                                            |
|     | <b>GRANT I.—Public Works (Contd.)</b>                                                                                                                               |                         |                              |                                                            |
|     | <b>II. REPAIRS—(Contd.)</b>                                                                                                                                         |                         |                              |                                                            |
|     | <b>(a) Communications.—(Concl'd).</b>                                                                                                                               |                         |                              |                                                            |
| (f) | Shifting the feeder Pillar No. 5 from the junction of the general Hospital Road and Wall Tax Road to Wall Tax Road near the newly shifted cart stand ...            | 1,440                   | 1,439                        | Paid in full.                                              |
| (g) | Shifting the M. E. S. C. and M. E. T. Co.'s posts at the junction of Blacker's Road and Dam's Road to the side of the road on account of the corner rounded off ... | 260                     | 310                          | Paid in full. Excess sanctioned by S. C. on 7-1-16.        |
| (h) | Painting the pipe railing and "T" iron verticals in Graemes Road ...                                                                                                | 115                     | 113                          | Paid in full.                                              |
| (i) | Petty Works ...                                                                                                                                                     | 1,780                   | 1,161                        | ...                                                        |
| (j) | Shifting two electric lamp posts at Parry's Corner, 4th Division ...                                                                                                | ...                     | 197                          | Standing Committee 7-1-16. Paid in full. Met from savings. |
|     | Total ...                                                                                                                                                           | 3,60,840                | 3,89,653                     |                                                            |
|     | <b>(b) Buildings.</b>                                                                                                                                               |                         |                              |                                                            |
| 1   | Repairs and improvements to Municipal buildings including petty works :—                                                                                            |                         |                              |                                                            |
| 1   | Repairing the water cistern in "C" bullock depot ...                                                                                                                | 620                     | ...                          | Completed.                                                 |
| 2   | Repairs to "C" Depot ...                                                                                                                                            | 285                     | 281                          | Paid in full.                                              |
| 3   | Repairs to the conservancy overseer's office and stores at "F" Depot ...                                                                                            | 110                     | 84                           | Do.                                                        |
| 4   | Repairs to "G" depot, store room and water trough... ..                                                                                                             | 425                     | ...                          | Completed.                                                 |
| 5   | Repairs to "H" bullock depot ...                                                                                                                                    | 1,300                   | 93                           | In progress.                                               |
| 6   | Repairs to drivers' lines in "H" depot ...                                                                                                                          | 430                     | ...                          | Completed.                                                 |
| 7   | Repairing the central gram depot ...                                                                                                                                | 350                     | 296                          | Paid in full.                                              |
| 8   | Flooring the front verandah and fixing curb stone in central gram depot ...                                                                                         | 130                     | 120                          | Do                                                         |
| 9   | Making improvements to gram shed conservancy depot, Chulai ...                                                                                                      | 695                     | 695                          | Do                                                         |
| 10  | Repairing the 144 houses and bazaars in the model paracherri at Cemetery Road ...                                                                                   | 1,710                   | 1,707                        | Do.                                                        |
| 11  | Repairs to Muhammadan model dwellings in Salai Vinayagar Covil Street ...                                                                                           | 380                     | 244                          | Do.                                                        |
| 12  | Repairing the Chetties' waiting shed in Washermenpet burial and burning ground.                                                                                     | 930                     | 930                          | Do.                                                        |
| 13  | Repairs to the shed at Krishnampet burial and burning ground ...                                                                                                    | 450                     | ...                          | Completed.                                                 |
|     | Carried over ...                                                                                                                                                    | 7,815                   | 4,450                        |                                                            |



## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part II.—Repairs—(Continued).

| No. | Particulars.                                                                                                                                          | Revised Estimate Grant. | Expenditure during the year. | REMARKS.        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-----------------|
|     |                                                                                                                                                       | Rs.                     | Rs.                          |                 |
|     | Brought forward ...                                                                                                                                   | 7,815                   | 4,450                        |                 |
|     | GRANT I.—Public Works (Contd.)                                                                                                                        |                         |                              |                 |
|     | II. REPAIRS—(Contd.)                                                                                                                                  |                         |                              |                 |
|     | (b) Buildings—(Contd.)                                                                                                                                |                         |                              |                 |
| 14  | Repairing the two incinerators in Swami Reddi Paracherri, Egmore ...                                                                                  | 170                     | 171                          | Paid in full.   |
| 15  | Manufacturing 6 W. I. Meter doors 2½' x 2' inside, for Water Works Overseer 1st to 3rd divisions ...                                                  | 150                     | 134                          | Do.             |
| 16  | Widening the existing gateway of the open ground adjoining the overseer's stores, 12th and 13th divisions, near Harris Bridge.                        | 180                     | ...                          | Work abandoned. |
| 17  | Repairing the licensing clerk's quarters at Ennore ...                                                                                                | 450                     | ...                          | In progress.    |
| 18  | Repairs to the overseer's office in grass farm ...                                                                                                    | 120                     | ...                          | Completed.      |
| 19  | Improvements to the slaughter-house superintendent's quarters (Hope Lodge) ...                                                                        | 1,000                   | 69                           | In progress.    |
| 20  | Repairing the out-houses in Hope Lodge ...                                                                                                            | 170                     | ...                          | Completed.      |
| 21  | Repairing the slaughter-houses in the 10th Division ...                                                                                               | 160                     | 179                          | Paid in full.   |
| 22  | Laying 2" galvanized pipes and fixing fittings and valves inside the sheep slaughter-house for cleaning platforms ...                                 | 235                     | 214                          | In progress.    |
| 23  | Excavating and removing pipe in DeCosta Road junction up to inside of Sheep slaughter-house ...                                                       | 100                     | ...                          | Completed.      |
| 24  | Repairs to the Lying-in-Hospital, Monegar Choultry and Georgetown Dispensary ...                                                                      | 3,555                   | ...                          | In progress.    |
| 25  | Repairing the electric installation in Rajah Sir Ramaswami Mudaliar's Lying-in-Hospital ...                                                           | 110                     | 110                          | Paid in full.   |
| 26  | Repairing the rooms and out-houses in the remaining portion of the cholera hospital and barracks ...                                                  | 515                     | 514                          | Do.             |
| 27  | Providing a wooden ceiling to the operation room in the Bauliah Naidu Dispensary in Rutler's Lane ...                                                 | 320                     | ...                          | In progress.    |
| 28  | Alterations for fixing the "X" ray apparatus at the Royapettah Hospital ...                                                                           | 140                     | 119                          | Paid in full.   |
| 29  | Diverting the drains from the Royapettah Hospital, including raising, curbing, etc. ...                                                               | 260                     | 260                          | Do.             |
| 30  | Repairs to Isolation Hospital, Krishnampet...                                                                                                         | 450                     | ...                          | Completed.      |
| 31  | Constructing curbs, storm water separator and connecting the sewer of the Krishnampet Isolation Hospital with the sewer in Pillaiyar Kovil Street ... | 965                     | 954                          | Paid in full.   |
|     | Carried over ...                                                                                                                                      | 16,865                  | 7,174                        |                 |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part II—Repairs—(Continued).

| No. | Particulars.                                                                                                                                                                                                   | Revised Estimate Grant. | Expenditure during the year. | REMARKS.      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------|
|     |                                                                                                                                                                                                                | Rs.                     | Rs.                          |               |
|     | Brought forward ..                                                                                                                                                                                             | 16,865                  | 7,174                        |               |
|     | GRANT I.—Public Works—(Contd.)                                                                                                                                                                                 |                         |                              |               |
|     | II. REPAIRS—(Contd.)                                                                                                                                                                                           |                         |                              |               |
|     | (b) Buildings—(Contd.)                                                                                                                                                                                         |                         |                              |               |
| 32  | Repairs to the latrines in drivers' lines near "C" depot ... ..                                                                                                                                                | 130                     | ...                          | Completed.    |
| 33  | Repairing the latrine in Wall Tax Road Paracherri ... ..                                                                                                                                                       | 180                     | 179                          | Paid in full. |
| 34  | Repairing the latrine in Sundaram Pillai Lane ... ..                                                                                                                                                           | 495                     | 493                          | Do.           |
| 35  | Repairing the latrine in Polu Naicken Street, Perambur ... ..                                                                                                                                                  | 120                     | 119                          | Do.           |
| 36  | Repairing the male and female latrine in Mottankuppam ... ..                                                                                                                                                   | 170                     | 169                          | Do.           |
| 37  | Repairing the male and female latrine in Hanumantharayan Covil Street ... ..                                                                                                                                   | 125                     | 122                          | Do.           |
| 38  | Repairs to Parthasarathi Petta latrine in Teynampet ... ..                                                                                                                                                     | 135                     | 122                          | Do.           |
| 39  | Repairs to the store room attached to the Corporation Workshop and Stores ... ..                                                                                                                               | 1,900                   | 1,841                        | Do.           |
| 40  | Shifting the topmost corrugated iron sheet of the roof 5" upwards, ridge corrugated iron sheet 5" downwards and fixing 1½' expanded metal ventilator at both sides of store shed, Corporation of Madras ... .. | 335                     | 309                          | Do.           |
| 41  | Repairs to the peons' quarters in the Robinson Park ... ..                                                                                                                                                     | 380                     | ...                          | In progress.  |
| 42  | Repairing the eastern wing of the store shed in the Napier Park ... ..                                                                                                                                         | 380                     | 340                          | Paid in full. |
| 43  | Repairs to tigers' cages in the menagerie enclosure, People's Park ... ..                                                                                                                                      | 130                     | 128                          | Do.           |
| 44  | Repairs to the Mangalore-tiled roofing in the Moore Market ... ..                                                                                                                                              | 300                     | ...                          | Completed.    |
| 45  | Supplying 32 demi-watt lamps 400 C. P. 230 volts for the use of the Moore Market for replacing the old bulbs ... ..                                                                                            | 435                     | 432                          | Paid in full. |
| 46  | Repairs to the Superintendent's quarters at the Moore Market ... ..                                                                                                                                            | 400                     | ...                          | Completed.    |
| 47  | Repairing and carrying out of certain improvements to the Evening Bazaar at the Moore Market ... ..                                                                                                            | 475                     | 8                            | Do.           |
| 48  | Cleaning 350 feet of 2½" C. I. pipe leading to the latrine attached to the Moore Market.                                                                                                                       | 130                     | 47                           | Do.           |
| 49  | Painting the staircase in the Evening Bazaar.                                                                                                                                                                  | 120                     | 120                          | Paid in full. |
| 50  | Repairing the European water closet at the Moore Market and fixing sanitary fittings ... ..                                                                                                                    | 130                     | 129                          | Do.           |
|     | Carried over ...                                                                                                                                                                                               | 23,335                  | 11,732                       |               |



STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

Part II—Repairs—(Continued).

| No. | Particulars.                                                                                                                                                                                                          | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-----------------------------------------|
|     | Brought forward ...                                                                                                                                                                                                   | Rs.<br>23,335           | Rs.<br>11,732                |                                         |
|     | GRANT I—Public Works (contd.)                                                                                                                                                                                         |                         |                              |                                         |
|     | II. REPAIRS (contd.)                                                                                                                                                                                                  |                         |                              |                                         |
|     | (b) Buildings—(Contd.)                                                                                                                                                                                                |                         |                              |                                         |
| 51  | Removing the existing Cuddapah slabs stalls and putting up side railing in the northern outer verandah of the Moore Market to accommodate iron mongers ...                                                            | 525                     | 524                          | Paid in full.                           |
| 52  | Securing the wrought-iron gates in the Moore Market ...                                                                                                                                                               | 100                     | 85                           | Do.                                     |
| 53  | Putting up brick-nogged partitions between the restaurants over the New Evening Bazaar ...                                                                                                                            | 585                     | 582                          | Do.                                     |
| 54  | Supplying and fixing one ceiling fan for the northern half of the room occupied by the Profession Tax Section of the Revenue Department, Ripon Buildings ...                                                          | 100                     | 101                          | Do.                                     |
| 55  | Fixing an alarm bell, &c., in the strong room of the Ripon Buildings ...                                                                                                                                              | 1,000                   | 665                          | Completed.                              |
| 56  | Providing a false window at the north-east corner of the Ripon Buildings ...                                                                                                                                          | 100                     | 94                           | Paid in full.                           |
| 57  | Supplying and fixing 2 fans in the Revenue Department, Ripon Buildings ...                                                                                                                                            | 150                     | 128                          | Do.                                     |
| 58  | Constructing a drain by the side of the tiffin shed at the Ripon Buildings ...                                                                                                                                        | 290                     | 224                          | Do.                                     |
| 59  | Supplying and fixing one fan and light point and also for shifting one fan and one light in the record room, Ripon Buildings ...                                                                                      | 125                     | 124                          | Do.                                     |
| 60  | Manufacturing 4 teak bicycle stands for the Ripon Buildings ...                                                                                                                                                       | 110                     | 110                          | Do.                                     |
| 61  | Alterations to motor pump rooms in the Ripon Buildings, People's Park ...                                                                                                                                             | 195                     | 194                          | Do.                                     |
| 62  | Repairs to houses 11 and 13 in Subraya Mudali Street, Pudupet, for accommodating the Indian drivers and the cleaners of the motor fire engine ...                                                                     | 350                     | ...                          | Completed.                              |
| 63  | Constructing a temporary shed at motor fire engine shed ...                                                                                                                                                           | 225                     | 207                          | Paid in full.                           |
| 64  | Connecting the drain from the latrine of motor fire station, Pudupet, to sewer and constructing a manhole in Subbaraya Mudali Street, Pudupet ...                                                                     | 155                     | 135                          | Do.                                     |
| 65  | Blackening the upper surface of the desks and low tables and drawing graph lines 1" square in yellow or white and every tenth line in red for the schools at Goyalope, Nungambakam, Thousand Lights and Korukupet ... | 420                     | ...                          | Work transferred to Grant II—Education. |
| 66  | Providing sunshades and screens for the training class in the model school at Malayappan Street ...                                                                                                                   | 375                     | 329                          | Paid in full.                           |
|     | Carried over ...                                                                                                                                                                                                      | 28,140                  | 15,234                       |                                         |

## STATEMENT II-A.—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part II.—Repairs—(Continued).

| No. | Particulars.                                                                                                                                                                       | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                            |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------------------------------------------------------------|
|     |                                                                                                                                                                                    | Rs.                     | Rs.                          |                                                                     |
|     | Brought forward ...                                                                                                                                                                | 28,140                  | 15,234                       |                                                                     |
|     | GRANT I—Public Works (contd.)                                                                                                                                                      |                         |                              |                                                                     |
|     | II. REPAIRS (contd.)                                                                                                                                                               |                         |                              |                                                                     |
|     | (b) Buildings—(Concl'd.)                                                                                                                                                           |                         |                              |                                                                     |
| 67  | Providing expanded metal screen, door, and sunshade for the training class attached to the model school in Mandavalli Street ...                                                   | 350                     | ...                          | Completed.                                                          |
| 68  | Do in Goyatope, Egmore ...                                                                                                                                                         | 350                     | 303                          | Paid in full.                                                       |
| 69  | Do in Vakkalkaren Street, Purasawakam ...                                                                                                                                          | 350                     | 303                          | Do.                                                                 |
| 70  | Do in Aziz-mulk Street, Thousand Lights ...                                                                                                                                        | 350                     | 316                          | Do.                                                                 |
| 71  | Gravelling inside the compound in the Model School at Rama Naick Street, Nungambakam ...                                                                                           | 125                     | 82                           | Do.                                                                 |
| 72  | Repairing the small bungalow at Red Hills ...                                                                                                                                      | 500                     | 342                          | Do.                                                                 |
| 73  | Repairing, colour-washing, painting and varnishing the furniture, &c., at the Red Hills Bungalow ...                                                                               | 320                     | 280                          | Paid in full.                                                       |
| 74  | Repairs to the Corporation bazaar attached to the cart-stand in Elephant Gate Road ...                                                                                             | 475                     | ...                          | Not begun.                                                          |
| 75  | Repairing the north-eastern corner of the zinc sheet roof at the Krishnampet Incinerator ...                                                                                       | 150                     | 192                          | Paid in full.                                                       |
| 76  | Repairs to Krishnampet Incinerator ...                                                                                                                                             | 1,500                   | 62                           | Completed.                                                          |
| 77  | Petty works ...                                                                                                                                                                    | 4,390                   | 4,860                        | Some minor works were done from the general savings of other works. |
| 78  | Repairs to latrine at the south end of Thoppai Mudali Street ...                                                                                                                   | ...                     | ...                          | Standing Committee, 29-10-15. In progress. To be met from savings.  |
| 79  | Painting white and colour-washing wood work of roofing of Nurses' Quarters in the Lying-in-Hospital in Moneghar Choultry Road ...                                                  | ...                     | 228                          | Standing Committee, 26-11-15. Paid in full. Met from savings.       |
| 80  | Preventive repairs to the "F" Depot at Krishnampet ...                                                                                                                             | ...                     | ...                          | Sanctioned by S. C. on 11-2-16. Not begun.                          |
| II  | Labour ...                                                                                                                                                                         | 5,060                   | 4,715                        |                                                                     |
| III | Repairs to pumping stations ...                                                                                                                                                    | 1,500                   | 685                          | .....                                                               |
|     | Total ...                                                                                                                                                                          | 43,560                  | 27,612                       |                                                                     |
|     | (c) Drainage—Ordinary.                                                                                                                                                             |                         |                              |                                                                     |
| I   | Repairs to Masonry drains :—                                                                                                                                                       |                         |                              |                                                                     |
| 1   | Repairing the damaged side drain walls, cement plastering and covering the same with granite stones in front of house Nos. 1/1, 1/2, and 3/2, Iyah Mudali Street, Chintadripet ... | 655                     | 654                          | Paid in full.                                                       |
| 2   | Repairing the side drain in Candappa Mudali Street, 8th Division ...                                                                                                               | 195                     | 195                          | Do.                                                                 |
|     | Carried over ...                                                                                                                                                                   | 850                     | 849                          |                                                                     |



STATEMENT II-A—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

Part II.—Repairs—(Continued).

| No. | Particulars.                                                                                                    | Revised Estimate | Expenditure      | REMARKS.      |
|-----|-----------------------------------------------------------------------------------------------------------------|------------------|------------------|---------------|
|     |                                                                                                                 | Grant.           | during the year. |               |
|     |                                                                                                                 | Rs.              | Rs.              |               |
|     | Brought forward ...                                                                                             | 850              | 849              |               |
|     | GRANT I—Public Works (contd.)                                                                                   |                  |                  |               |
|     | II. REPAIRS (Contd.)                                                                                            |                  |                  |               |
|     | (c) Drainage (Ordinary.) (contd.)                                                                               |                  |                  |               |
| 3   | Repairing the drain in Neleukara Veera Mudali Street, Mount Road ...                                            | 220              | 147              | Paid in full. |
| 4   | Manufacturing C. I. Cesspool covers 1' 9" x 3' 8", C. I. cesspool covers 1' 6" x 3' for B. O. 1-3 Divisions ... | 115              | 101              | Do.           |
| 5   | Repairs to drains, pipes, &c. in the Moore Market ...                                                           | 150              | ...              | Completed.    |
| 6   | Covering the side drain in Bells Road with Cuddapah slabs 2" thick from house Nos. 16 to 25 ...                 | 100              | 85               | Paid in full. |
| 7   | Repairs to the drains in Ramanuja Iyer Street ...                                                               | 170              | ...              | Completed.    |
| 8   | Raising and covering the drain in Chinna Reddi Street, Egmore ...                                               | 100              | 89               | Paid in full. |
| 9   | Repairs to the drain in Venkatachala Naick Street, Royapuram ...                                                | 150              | ...              | Completed.    |
| 10  | Repairing the side drain in Ponnappa Mudali Lane, 10th Division ...                                             | 100              | 98               | Paid in full. |
| 11  | Repairing the side drain in Wall Tax Road near Elephant Gate Police Station ...                                 | 100              | 81               | Paid in full. |
| 12  | Constructing a manhole in Sengalaneer Pilliar Coil Street ...                                                   | 230              | 124              | Completed.    |
| 13  | Raising and providing cast-iron "A" pattern door to the manhole in Ice House Road ...                           | 100              | 33               | Paid in full. |
| 14  | Connecting drain with the sewer and constructing manhole for drivers' quarters, Pudupet ...                     | 115              | 96               | Do.           |
| 15  | Raising and providing cast-iron "A" pattern door to the manhole in Ramasawmy Maistri Street ...                 | 100              | 68               | Do.           |
| 16  | Connecting house drain to the main sewer of Cosmopolitan Club and constructing a manhole in Mount Road ...      | 310              | 298              | Do.           |
| 17  | Constructing manholes in Owliah Sahib Street and Lane, Triplicane ...                                           | 160              | 142              | Do.           |
| 18  | Repairs to drainage works inside the premises of Messrs. Simpson & Co., Mount Road ...                          | 550              | 104              | In progress.  |
| 19  | Linking dead ends between South Madah Street head manhole to West Madah Street manhole No. 29, Mylapore ...     | 170              | 150              | Paid in full. |
| 20  | Raising manholes near Mundakanniamman Covil Street, Mylapore ...                                                | 200              | 122              | Completed.    |
|     | Carried over ...                                                                                                | 3,990            | 2,587            |               |

## STATEMENT II-A—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.

## Part II. —Repairs—(Continued).

| No. | Particulars.                                                                                                                                             | Revised Estimate Grant. | Expenditure during the year. | REMARKS.      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|---------------|
|     | Brought forward ...                                                                                                                                      | Rs. 3,990               | Rs. 2,587                    |               |
|     | GRANT I.—Public Works (Contd.)                                                                                                                           |                         |                              |               |
|     | II. REPAIRS—(Contd.)                                                                                                                                     |                         |                              |               |
|     | (c) Drainage (Ordinary.) (Contd.)                                                                                                                        |                         |                              |               |
| 21  | Removing 4" ventilator pipe and constructing silt pit behind the premises of Messrs. Whiteaway, Laidlaw & Co., Mount Road ...                            | 140                     | 132                          | Paid in full. |
| 22  | Draining off the storm water in North Beach Road opposite to Royapuram goods shed ...                                                                    | 330                     | 332                          | Do.           |
| 23  | Removing wrought iron gratings and replacing the cast iron gratings with light covers of Oakes in Thayar Saib Street, Triplicane ...                     | 160                     | 152                          | Do.           |
| 24  | Constructing storm water separator in Gangadereswarer Coil Street, Purasawaukam.                                                                         | 175                     | 94                           | Completed.    |
| 25  | Extending the sewer in Singanna Chetti Street, including house connections and connecting masonry drains in Sunkumar Agraharam Street with the sewer ... | 1,210                   | 757                          | Do.           |
| 26  | Removing and relaying 6" stoneware pipe in Meer Bakshi Ali Street ...                                                                                    | 965                     | 397                          | Do.           |
| 27  | Constructing storm water separator and silt pit at Alanthur Subbaraya Achari Street ...                                                                  | 275                     | 237                          | Paid in full. |
| 28  | Constructing storm water separator and silt pit in Audiappa Naick Street, Chulai ...                                                                     | 275                     | 158                          | Completed.    |
| 29  | Constructing storm water separator and silt pit in Arimuthu Maistri Street, Chulai ...                                                                   | 275                     | 199                          | Completed.    |
| 30  | Constructing storm water separators at Avadi Srinivasa Iyer Street, Chulai ...                                                                           | 140                     | 152                          | Paid in full. |
| 31  | Constructing Chambers &c. in Arimuthu Maistri Street, Chulai ...                                                                                         | 125                     | 98                           | Do.           |
| 32  | Constructing drain from Avadi Srinivasa Iyer Street to DeMellow's Road Manhole, Chulai ...                                                               | 1,255                   | 817                          | Completed.    |
| 33  | Connecting drain from Straham's Road to Angalammen Kovil Street, Chulai ...                                                                              | 405                     | 444                          | Paid in full. |
| 34  | Examining and repairing the overflow drain in Ramanen Street ...                                                                                         | 620                     | 620                          | Do.           |
| 35  | Raising the Manholes and reconstructing the same to the road level in Mundakanni Amman Koil Street, Mylapore ...                                         | 122                     | 122                          | Do.           |
| 36  | Raising the Manholes and reconstructing the same to the road level in Mundakanni Amman Koil Garden, Mylapore ...                                         | 193                     | 192                          | Do.           |
| 37  | Constructing silt pit and blocking up the overflow at Wall Tax Road junction of Ramanen Street near Salt Depot ...                                       | 195                     | 55                           | Completed.    |
| 38  | Covering the side drain in Bell's Road with Cuddapah Slabs 2 inch thick from Thiruvatteswarenpettah Road junction of Wallajah Road ...                   | 210                     | 211                          | Paid in full. |
|     | Carried over ...                                                                                                                                         | 11,060                  | 7,756                        |               |



**STATEMENT II-A—Details of Allotment for Expenditure on Public Works estimated to cost Rs. 100 and upwards.**

**Part II.—Repairs—(Concluded).**

| No.  | Particulars.                                                                                                   | Revised Estimate Grant. | Expenditure during the year. | REMARKS.                                                                                |
|------|----------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------|
|      | Brought forward —                                                                                              | Rs.<br>11,060           | Rs.<br>7,756                 |                                                                                         |
|      | GRANT I.—Public Works (Concl'd.)<br>II. REPAIRS—(Concl'd.)<br>(c) Drainage (Ordinary.) (Concl'd.)              |                         |                              |                                                                                         |
| 39   | Extending a drain from Macdonald house to Begum Saib Street in Graeme's Road ...                               | 210                     | 208                          | Paid in full.                                                                           |
| 40   | Repairing the side drains in 11th Division ...                                                                 | 170                     | ...                          | In progress.                                                                            |
| 41   | Repairing the masonry under ground drain in Karpura Mudali Street, Periamet ...                                | 455                     | 453                          | Paid in full.                                                                           |
| 42   | Repairing the storm water drain at Male Asylum Road, 13th Division ...                                         | ...                     | ...                          | Standing Committee 29-10-15. Completed. To be met from general savings                  |
| 43   | Repairing the overflow drain in the premises of Messrs. Simpson & Co., Mount Road ...                          | ...                     | ...                          |                                                                                         |
| 44   | Supplying and fixing best iron light covers to the Municipal drain inside the Ordnance Lines, 9th Division ... | ...                     | ...                          | Standing Committee 25-2-16. In progress.                                                |
|      |                                                                                                                |                         |                              |                                                                                         |
| II   | Petty Works ...                                                                                                | 7,000                   | 7,050                        | Standing Committee 28-1-16. Not begun for want of light covers. To be met from savings. |
| III  | Sewer, Main drain etc., cleaning ...                                                                           | 36,360                  | 36,428                       |                                                                                         |
| IV   | House Drainage ...                                                                                             | 2,690                   | 2,391                        |                                                                                         |
| V    | Tondiarpet Drainage ...                                                                                        | 2,200                   | 1,629                        |                                                                                         |
| VI   | Pumping Stations ...                                                                                           | 1,45,070                | 1,54,697                     |                                                                                         |
| VII  | Hire of coolies ...                                                                                            | 55,900                  | 49,970                       |                                                                                         |
| VIII | Maintenance of bullocks ...                                                                                    | 87,180                  | 81,928                       |                                                                                         |
| IX   | " carts ...                                                                                                    | 7,500                   | 10,277                       | Increase due to repairs to lorries having been debited to this head.                    |
|      | Total ...                                                                                                      | 3,55,795                | 3,52,787                     |                                                                                         |
|      | (d) Water-Supply (Ordinary).                                                                                   |                         |                              |                                                                                         |
| 1    | Repairing fountains.                                                                                           |                         |                              |                                                                                         |
|      | 1. Labour ...                                                                                                  | 15,900                  | 15,236                       |                                                                                         |
|      | 2. Repairs, Materials ...                                                                                      | 15,000                  | 10,888                       |                                                                                         |
| 2    | Repairing pipes — Repairs, Materials ...                                                                       | 12,000                  | 11,495                       |                                                                                         |
| 3    | Repairs to Meters, including replacing old ones and fixing new meters ...                                      | 5,000                   | 5,047                        |                                                                                         |
| 4    | Red Hills Lake Staff ...                                                                                       | 1,860                   | 2,218                        | Excess met from Item 8 (I).                                                             |
| 5    | Filter Beds and conduit ...                                                                                    | 2,970                   | 2,127                        |                                                                                         |
| 6    | Maintenance of temporary electric pumping schemes ...                                                          | 500                     | 494                          |                                                                                         |
| 7    | Pumping Station, Kilpauk ...                                                                                   | 69,390                  | 81,881                       |                                                                                         |
| 8    | Repairs to delivery channel ...                                                                                |                         |                              |                                                                                         |
|      | 1. Labour ...                                                                                                  | 2,950                   | 2,514                        |                                                                                         |
|      | 2. Repairs, Materials... ...                                                                                   | 1,000                   | 816                          |                                                                                         |
|      | Total ...                                                                                                      | 1,26,570                | 1,32,716                     |                                                                                         |
|      | (e) Miscellaneous.                                                                                             |                         |                              |                                                                                         |
| 1    | Petty Works ...                                                                                                | 1,050                   | 872                          |                                                                                         |





STATEMENT IV-A — Demand, Collection and Balance Statement of Taxes, &amp;c., for the year 1915-16 (Current).

| Description of taxes, &c.                                  | Gross Demand.     |       |       | Net Demand (Column 2 minus Column 3). |       |       | Collection.           |       |             | Remission. |                  |                                                      | Balance.    |       |                                              |
|------------------------------------------------------------|-------------------|-------|-------|---------------------------------------|-------|-------|-----------------------|-------|-------------|------------|------------------|------------------------------------------------------|-------------|-------|----------------------------------------------|
|                                                            | 2                 |       |       | 4                                     |       |       | 5                     |       |             | 6          |                  |                                                      | 8           |       |                                              |
|                                                            | Rs.               | A. P. | A. P. | Rs.                                   | A. P. | A. P. | For the year 1915-16. | A. P. | Rs.         | A. P.      | For vacancy, &c. | Percentage of collection for the year to net Demand. | Rs.         | A. P. | Percentage of Columns 7 and 8 to net Demand. |
| 1                                                          |                   |       |       |                                       |       |       |                       |       |             |            |                  |                                                      |             |       |                                              |
| 1 Tax on Arts, &c.                                         | (a) 1,71,615      | 0 0   | 0 0   | (a) 1,71,602                          | 8 0   | 0 0   | (a) 1,70,972          | 0 0   | ...         | ...        | ...              | 99.22                                                | ...         | ...   | ...                                          |
| 2 Tax on Buildings and Lands                               | (a) 2,359 15 7    | 9 7   | 13 5  | (a) 2,223 3 2                         | 2 10  | 3 2   | (a) 2,223 3 2         | 2 10  | 10,543 8 2  | 469 9 7    | (d) 313 13 7     | ...                                                  | 26,937 6 7  | ...   | ...                                          |
| 3 Tax on Lands                                             | (a) 12,574 11 3   | ...   | ...   | (a) 12,574 11 3                       | ...   | ...   | (a) 12,574 11 3       | ...   | ...         | ...        | ...              | ...                                                  | 937 8 0     | ...   | ...                                          |
| 4 Water and Drainage tax on Buildings and Lands            | (a) 1,533 15 8    | 0 10  | 5 8   | (a) 1,445 1 3                         | 1 3   | 5 8   | (a) 1,445 1 3         | 1 3   | 6,853 4 6   | 307 2 2    | ...              | ...                                                  | 17,507 6 10 | ...   | ...                                          |
| 5 Water and Drainage tax on lands                          | (a) 8,080 6 7     | ...   | ...   | (a) 8,080 6 7                         | ...   | ...   | (a) 8,080 6 7         | ...   | (d) 204 0 1 | 4 4 3      | ...              | 1-16                                                 | 624 4 4     | ...   | 2.91                                         |
| 6 Lighting tax on Buildings and Lands                      | (a) 1,17,538 15 0 | ...   | ...   | (a) 1,17,538 15 0                     | ...   | ...   | (a) 1,17,538 15 0     | ...   | 1,317 15 0  | 58 11 2    | ...              | ...                                                  | 3,367 2 10  | ...   | ...                                          |
| 7 Lighting tax on Lands                                    | (a) 1,571 13 9    | ...   | ...   | (a) 1,571 13 9                        | ...   | ...   | (a) 1,571 13 9        | ...   | (d) 39 3 8  | 1 3 0      | ...              | ...                                                  | 119 10 11   | ...   | ...                                          |
| 8 Tax on Vehicles with springs                             | (b) 1,381 0 0     | ...   | ...   | (b) 1,381 0 0                         | ...   | ...   | (b) 1,381 0 0         | ...   | ...         | 15 0 0     | ...              | ...                                                  | 3,030 8 0   | ...   | 3.98                                         |
| 9 Tax on Animals                                           | (b) 34,929 12 0   | ...   | ...   | (b) 34,929 12 0                       | ...   | ...   | (b) 34,929 12 0       | ...   | ...         | 9 0 0      | ...              | ...                                                  | 1,514 14 0  | ...   | 4.21                                         |
| 10 Tax on Carts and other Vehicles without springs         | (b) 1,629 0 0     | ...   | ...   | (b) 1,629 0 0                         | ...   | ...   | (b) 1,629 0 0         | ...   | ...         | 3 4 3      | ...              | ...                                                  | 63 13 0     | ...   | 0.19                                         |
| 11 Tolls on Vehicles and Animals entering Municipal limits | (c) 45,519 7 6    | ...   | ...   | (c) 45,519 7 6                        | ...   | ...   | (c) 45,519 7 6        | ...   | ...         | ...        | ...              | ...                                                  | ...         | ...   | ...                                          |
| 12 Payment for occupation of Municipal Lands               | 5,332 12 6        | ...   | ...   | 5,332 12 6                            | ...   | ...   | 5,332 12 6            | ...   | ...         | ...        | ...              | ...                                                  | 97 6 0      | ...   | 1.84                                         |
| 13 Rent of Lands and Buildings                             | 37,254 0 4        | ...   | ...   | 37,254 0 4                            | ...   | ...   | 35,369 5 6            | ...   | ...         | ...        | ...              | ...                                                  | 1,884 10 10 | ...   | 5.06                                         |
| 14 Sale proceeds of Lands                                  | 18,952 0 1        | ...   | ...   | 18,952 0 1                            | ...   | ...   | 18,952 0 1            | ...   | ...         | ...        | ...              | ...                                                  | ...         | ...   | ...                                          |
| 15 Esplanade, &c., grazing rent                            | 1,437 2 8         | ...   | ...   | 1,437 2 8                             | ...   | ...   | 1,437 2 8             | ...   | ...         | ...        | ...              | ...                                                  | ...         | ...   | ...                                          |
| 16 Rent of Cart Stand                                      | 4,698 7 10        | ...   | ...   | 4,698 7 10                            | ...   | ...   | 4,698 7 10            | ...   | ...         | ...        | ...              | ...                                                  | ...         | ...   | ...                                          |
| 17 Rent of Municipal wharf                                 | 1,600 0 0         | ...   | ...   | 1,600 0 0                             | ...   | ...   | 1,600 0 0             | ...   | ...         | ...        | ...              | ...                                                  | ...         | ...   | ...                                          |

|    |               |     |           |     |           |         |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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(a) The amounts prepaid in advance in the previous year under Section 174 for the demand of 1915-16.

(b) The amount prepaid in advance in the previous year towards the demand of 1915-16.

(c) The difference refundable between the taxes prepaid under Section 174 and subsequently reduced on appeal.

(d) Represent the amount already refunded towards the taxes prepaid under Section 174 and subsequently reduced on appeal.

(c) Includes penal interest on instalments over due.



STATEMENT IV-B.—Demand, Collection and Balance Statement of Taxes, &amp;c., for the year 1915-16 (Arrear).

| Description of Taxes, &c.                                         | Arrears of previous years. | Balance of last year. | Subsequent amendments and additions during the year. | Total arrear Demand (Column 2, 3 & 4(a)). | Remission on objection. | Net Demand (Column 4 minus Column 5). | Collection. |                                                                           | Remission.             |                 | Balance.                                                  |                                                    | Years to which the Balance relates. |
|-------------------------------------------------------------------|----------------------------|-----------------------|------------------------------------------------------|-------------------------------------------|-------------------------|---------------------------------------|-------------|---------------------------------------------------------------------------|------------------------|-----------------|-----------------------------------------------------------|----------------------------------------------------|-------------------------------------|
|                                                                   |                            |                       |                                                      |                                           |                         |                                       | Collection. | Percent-<br>age of<br>total of<br>columns<br>8 & 9 to<br>Net De-<br>mand. | For<br>Vacancy,<br>&c. | Written<br>off. | Balance<br>(column 6<br>minus co-<br>lumn 7, 8<br>and 9). | Percent-<br>age of<br>Balance<br>to Net<br>Demand. |                                     |
| 1                                                                 | 2                          | 3                     | 3 (a)                                                | 4                                         | 5                       | 6                                     | 7           | 7 (a)                                                                     | 8                      | 9               | 10                                                        | 10 (a)                                             | 11                                  |
| 1 Tax on Arts, &c.                                                | 50 0 0                     | 1,587 8 0             | 665 0 0                                              | 2,302 8 0                                 | 90 0 0                  | 2,212 8 0                             | 2,159 8 4   | 97.60                                                                     | ...                    | 715 8           | 45 6 0                                                    | 2.03                                               | 1911-12 & 1914-15.                  |
| 2 Tax on Buildings and Lands                                      | 8,729 10 1                 | 22,766 11 10          | 3,872 10 1                                           | 27,623 11 10                              | ...                     | 27,623 11 10                          | 17,475 3 2  | ...                                                                       | ...                    | 20 2 0          | 9,134 3 5                                                 | ...                                                | ...                                 |
| 3 Tax on Lands                                                    | 48 10 8                    | 963 13 1              | 75 11 1                                              | 1,088 3 8                                 | ...                     | 1,088 3 8                             | 997 14 7    | ...                                                                       | ...                    | 5 12 0          | 64 2 8                                                    | ...                                                | ...                                 |
| 4 Water and Drainage tax on Buildings and Lands                   | 5,674 4 3                  | 14,728 6 5            | 2,517 5 9                                            | 17,955 4 11                               | ...                     | 17,955 4 11                           | 11,358 12 1 | ...                                                                       | ...                    | 13 1 3          | 5,937 3 10                                                | ...                                                | ...                                 |
| 5 Water and Drainage tax on Lands                                 | 31 10 2                    | 624 0 4               | 51 14 11                                             | 707 9 5                                   | ...                     | 707 9 5                               | 648 14 2    | ...                                                                       | ...                    | 3 11 10         | 4 11 1                                                    | ...                                                | 1912-13 to 1914-15.                 |
| 6 Lighting Tax on Buildings and Lands                             | 1,091 3 3                  | 2,845 14 1            | 484 1 8                                              | 3,402 15 8                                | ...                     | 3,452 15 8                            | 2,184 6 7   | ...                                                                       | ...                    | 2 8 3           | 1,141 12 7                                                | ...                                                | ...                                 |
| 7 Lighting Tax on Lands                                           | 6 1 4                      | 120 7 4               | 9 8 0                                                | 136 0 8                                   | ...                     | 136 0 8                               | 124 12 0    | ...                                                                       | ...                    | 0 11 6          | 8 0 4                                                     | ...                                                | ...                                 |
| 8 Tax on Vehicles with springs                                    | 71 8 0                     | 1,766 0 0             | 251 0 0                                              | 2,088 8 0                                 | 546 8 0                 | 1,542 0 0                             | 1,433 2 11  | 96.82                                                                     | ...                    | ...             | 48 13 1                                                   | 3.18                                               | 1914-15.                            |
| 9 Tax on Animals                                                  | 33 12 0                    | 972 12 0              | 149 4 0                                              | 1,156 12 0                                | 296 10                  | 859 2 0                               | 825 15 1    | 96.16                                                                     | ...                    | ...             | 33 2 11                                                   | 3.84                                               | Do.                                 |
| 10 Tax on Carts and other vehicles without springs                | 6 0 0                      | 30 6 7                | 39 0 0                                               | 75 6 7                                    | ...                     | 75 6 7                                | 65 10 0     | 88.0                                                                      | ...                    | 1 10 3          | 8 2 4                                                     | 10.67                                              | Do.                                 |
| 11 Payment for occupation of Municipal Lands                      | 6 2 0                      | 71 3 0                | 2 1 0                                                | 79 6 0                                    | 10 2 0                  | 69 4 0                                | 69 4 0      | 100.00                                                                    | ...                    | ...             | ...                                                       | ...                                                | ...                                 |
| 12 Rent of Lands and Buildings                                    | 77 14 11                   | 1,131 0 1             | 32 0 0                                               | 1,240 15 0                                | ...                     | 1,240 15 0                            | 701 12 8    | 56.81                                                                     | ...                    | ...             | 426 8 4                                                   | 33.92                                              | 1914-15.                            |
| 13 Grass Farm                                                     | ...                        | 235 14 11             | ...                                                  | 235 14 11                                 | ...                     | 235 14 11                             | 235 14 11   | 100.00                                                                    | ...                    | ...             | ...                                                       | ...                                                | ...                                 |
| 14 Sale of Rubbish                                                | 130 10 0                   | 617 10 8              | ...                                                  | 748 4 8                                   | ...                     | 748 4 8                               | ...         | ...                                                                       | ...                    | ...             | 748 4 8                                                   | 100.00                                             | 1913-14 & 1914-15.                  |
| 15 Hospital Receipts                                              | ...                        | 56 0 0                | ...                                                  | 56 0 0                                    | ...                     | 56 0 0                                | ...         | ...                                                                       | ...                    | ...             | 56 0 0                                                    | 100.00                                             | 1914-15.                            |
| 16 Moor Market                                                    | ...                        | 1,210 0 0             | ...                                                  | 1,210 0 0                                 | ...                     | 1,210 0 0                             | 225 0 0     | 18.60                                                                     | ...                    | ...             | 985 0 0                                                   | 81.40                                              | Do.                                 |
| 17 Income from Slaughter-houses and Slaughter of animals for food | 333 5 4                    | 2,933 5 4             | ...                                                  | 3,256 10 8                                | ...                     | 3,256 10 8                            | 333 5 4     | 10.10                                                                     | ...                    | ...             | 2,933 5 4                                                 | 89.77                                              | 1913-14 & 1914-15.                  |
| 18 License fees on import of timber and firewood                  | ...                        | 3,969 7 6             | ...                                                  | 3,969 7 6                                 | ...                     | 3,969 7 6                             | 3,969 7 6   | 100.00                                                                    | ...                    | ...             | ...                                                       | ...                                                | ...                                 |
| 19 Licenses registration                                          | 39 0 0                     | 1,376 12 0            | 77 12 0                                              | 1,338 0 0                                 | ...                     | 1,338 0 0                             | 1,250 4 0   | 93.42                                                                     | ...                    | 83 12 0         | 4 0 0                                                     | 0.30                                               | 1914-15.                            |
| 20 School fees                                                    | ...                        | 75 7 6                | ...                                                  | 75 7 6                                    | ...                     | 75 7 6                                | 69 2 0      | 92.00                                                                     | ...                    | ...             | 6 5 6                                                     | 8.00                                               | Do.                                 |
| 21 Payment for water for non-domestic purposes                    | 22 15 6                    | 1,610 8 0             | 4,561 12 0                                           | 6,225 5 6                                 | ...                     | 6,225 5 6                             | 6,225 5 6   | 100.00                                                                    | ...                    | ...             | ...                                                       | ...                                                | ...                                 |
| 22 Receipts on account of Malaria reclamation works.              | ...                        | 9,910 6 4             | ...                                                  | 9,910 6 4                                 | ...                     | 9,910 6 4                             | ...         | ...                                                                       | ...                    | ...             | ...                                                       | ...                                                | ...                                 |
| Total...                                                          | 16,382 11 6                | 69,673 11 0           | 1,114 9 8                                            | 84,941 12 10                              | 943 4 0                 | 83,998 8 10                           | 60,416 8 10 | 60.02                                                                     | 1,916 8 9              | 139 4 9         | 31,526 2 6                                                | 37.53                                              | 1914-15.                            |

(a) Exclusive of the sum due by Government Military Department and the amount covered by decrees the percentage is 91.30.

(b) The percentage of balance to the demand exclusive of the sum due by Government for enhanced taxes on Military buildings is only 4.25.

STATEMENT IV-C.—Showing particulars of classification of assessments of Profession Tax under each class of the Schedule as compared with that of the previous year.

| Classification as per<br>Schedule V. | For the year 1914-1915. |                           | For the year 1915-1916. |                           | Percentage of<br>increase or<br>decrease. | REMARKS. |                                                                           |
|--------------------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------------------------|----------|---------------------------------------------------------------------------|
|                                      | No. of<br>assessments.  | Amount of tax<br>thereon. | No. of<br>assessments.  | Amount of tax<br>thereon. |                                           |          |                                                                           |
|                                      |                         |                           |                         |                           |                                           |          | Rs.                                                                       |
| I-A                                  | 107                     | 26,750                    | 0                       | 0                         | 0                                         | ...      | Due to transfer from lower classes.                                       |
| I-B                                  | 22                      | 3,850                     | 0                       | 0                         | 0                                         | + 18.1   |                                                                           |
| I-C                                  | 28                      | 2,800                     | 0                       | 0                         | 0                                         | + 10.7   |                                                                           |
| I-D                                  | 8                       | 600                       | 0                       | 0                         | 0                                         | ...      | .....                                                                     |
| I Pro (1)                            | 20                      | 2,500                     | 0                       | 0                         | 0                                         | + 15     | Due to transfer from lower classes.                                       |
| I Pro (2)                            | 26                      | 1,950                     | 0                       | 0                         | 0                                         | - 15.3   | Due to cancellation and transfer to higher classes.                       |
| I Pro (3)                            | 33                      | 825                       | 0                       | 0                         | 0                                         | - 9.09   |                                                                           |
| I                                    | 224                     | 28,000                    | 0                       | 0                         | 0                                         | + 3.5    | Due to transfer from lower classes.                                       |
| II                                   | 235                     | 17,625                    | 0                       | 0                         | 0                                         | + 2.5    |                                                                           |
| II-C                                 | 7                       | 350                       | 0                       | 0                         | 0                                         | ...      | .....                                                                     |
| III                                  | 543                     | 20,362                    | 8                       | 0                         | 0                                         | + 9.9    | Due to transfer from lower classes.                                       |
| III-C                                | 21                      | 525                       | 0                       | 0                         | 0                                         | - 14.2   | Due to cancellation and transfer to higher classes.                       |
| IV                                   | 795                     | 13,912                    | 8                       | 0                         | 0                                         | + 1.6    | Due to transfer from lower classes.                                       |
| V                                    | 1,332 & 2 diff.         | 13,333                    | 2                       | 11                        | 0                                         | - 0.5    | .....                                                                     |
| VI                                   | 3,624                   | 18,120                    | 0                       | 0                         | 0                                         | - 3.7    | Due to unfavourable conditions prevailing in trade consequent on the war. |
| VII                                  | 6,560                   | 16,400                    | 0                       | 0                         | 0                                         | - 1.03   |                                                                           |
| Total                                | 13,585 & 2 diff.        | 1,67,903                  | 2                       | 11                        | 8                                         | 0        | - 0.9                                                                     |





STATEMENT IV-E.—GRADATION LIST.—The following is a Gradation of the Combined Rates levied on Buildings and Lands.

| Gradation of Annual Taxes. | Number of Buildings and Lands. | Amount of House, Water and Drainage and Lighting Taxes thereon. |            | Number of Lands. | Amount of House, Water and Drainage and Lighting Taxes there on. |            | TOTAL.                         |                          |
|----------------------------|--------------------------------|-----------------------------------------------------------------|------------|------------------|------------------------------------------------------------------|------------|--------------------------------|--------------------------|
|                            |                                | Rs.                                                             | A. P.      |                  | Rs.                                                              | A. P.      | Number of Buildings and Lands. | Amount of Taxes thereon. |
| Under 8 Annas              | ...                            | ...                                                             | ...        | ...              | ...                                                              | ...        | ...                            | ...                      |
| 8 Annas and under 1½ Re.   | ...                            | ...                                                             | ...        | ...              | ...                                                              | ...        | ...                            | ...                      |
| 1½ Rupee and under Rs. 5   | ...                            | ...                                                             | ...        | ...              | ...                                                              | ...        | ...                            | ...                      |
| 5 Rupees and under Rs. 15  | ...                            | ...                                                             | ...        | ...              | ...                                                              | ...        | ...                            | ...                      |
| 15 Rupees and under Rs. 30 | ...                            | ...                                                             | ...        | ...              | ...                                                              | ...        | ...                            | ...                      |
| 30 Rupees and upwards      | ...                            | ...                                                             | ...        | ...              | ...                                                              | ...        | ...                            | ...                      |
| <b>Total</b>               | <b>...</b>                     | <b>...</b>                                                      | <b>...</b> | <b>...</b>       | <b>...</b>                                                       | <b>...</b> | <b>...</b>                     | <b>...</b>               |

APPENDIX I.





STATEMENT IV-G.—Compares the receipts from the license fees levied on Import of Timber and Firewood and shows the rise and fall in Imports generally.

| Period of Operation. | Articles Imported.                                              | 3        |       | 4   |        | 5   |       | 6     |       | 7   |        | 8   |       | 9     |       | 10  |       | 11  |       | 12       |       | 13  |       | 14  |       |          |
|----------------------|-----------------------------------------------------------------|----------|-------|-----|--------|-----|-------|-------|-------|-----|--------|-----|-------|-------|-------|-----|-------|-----|-------|----------|-------|-----|-------|-----|-------|----------|
|                      |                                                                 | RS.      | A. P. | RS. | A. P.  | RS. | A. P. | RS.   | A. P. | RS. | A. P.  | RS. | A. P. | RS.   | A. P. | RS. | A. P. | RS. | A. P. | RS.      | A. P. | RS. | A. P. | RS. | A. P. |          |
| 1912-13              | By Sea collected by the Madras Port Trust since 1st April 1910. | 1,58,725 | 0     | 0   | 13,117 | 8   | 0     | 592   | 8     | 0   | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Madras and S. M. Railway.                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By S. I. Railway.                                               | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (North).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (South).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
| Total ..             |                                                                 | 1,58,836 | 0     | 0   | 33,143 | 7   | 11    | 2,064 | 5     | 0   | 17,302 | 9   | 6     | 9,128 | 10    | 0   | 2,553 | 0   | 0     | 2,23,128 | 0     | 5   | 2,886 | 12  | 6     | 2,59,964 |
| 1913-14              | By Sea collected by the Madras Port Trust since 1st April 1910. | 1,52,805 | 0     | 0   | 18,011 | 4   | 0     | 732   | 8     | 0   | 10     | 0   | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Madras and S. M. Railway.                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By S. I. Railway.                                               | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (North).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (South).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
| Total ..             |                                                                 | 1,52,882 | 10    | 0   | 38,063 | 12  | 9     | 2,052 | 12    | 0   | 18,864 | 10  | 0     | 6,673 | 2     | 6   | 2,859 | 11  | 5     | 2,21,396 | 10    | 8   | 3,552 | 3   | 6     | 2,24,948 |
| 1914-15              | By Sea collected by the Madras Port Trust since 1st April 1910. | 1,28,556 | 4     | 0   | 12,237 | 8   | 0     | 927   | 8     | 0   | 3      | 12  | 0     | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Madras and S. M. Railway.                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By S. I. Railway.                                               | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (North).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (South).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
| Total ..             |                                                                 | 1,28,556 | 4     | 0   | 33,035 | 11  | 2     | 1,229 | 1     | 0   | 18,490 | 9   | 6     | 6,314 | 4     | 0   | 3,306 | 4   | 8     | 1,90,852 | 2     | 4   | 2,864 | 11  | 6     | 1,93,796 |
| 1915-16              | By Sea collected by the Madras Port Trust since 1st April 1910. | 1,18,575 | 0     | 0   | 19,268 | 12  | 0     | 1,963 | 12    | 0   | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Madras and S. M. Railway.                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By S. I. Railway.                                               | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (North).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
|                      | By Buckingham Canal (South).                                    | ...      | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...    | ... | ...   | ...   | ...   | ... | ...   | ... | ...   | ...      | ...   | ... | ...   | ... | ...   |          |
| Total ..             |                                                                 | 1,18,575 | 0     | 0   | 38,939 | 14  | 4     | 2,175 | 6     | 0   | 16,533 | 6   | 0     | 7,559 | 12    | 6   | 3,253 | 10  | 10    | 1,87,037 | 1     | 8   | 3,969 | 7   | 6     | 1,91,006 |





STATEMENT IV-J.—The following is an analysis of collection of each tax at each stage.

| 1                                                  | ARREAR.             |                                              |                             |                            |                                            | CURRENT.                                     |                                              |                             |                                            |                          | 11 |
|----------------------------------------------------|---------------------|----------------------------------------------|-----------------------------|----------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|--------------------------------------------|--------------------------|----|
|                                                    | 2                   | 3                                            | 4                           | 5                          | 6                                          |                                              |                                              |                             |                                            | 10                       |    |
|                                                    |                     |                                              |                             |                            | On service of bill.                        | After issue and before execution of warrant. | After execution of warrant.                  | Total of Columns 2, 3 & 4.  | Collected in advance in the previous year. |                          |    |
| Description of Taxes, &c.                          | On service of bill. | After issue and before execution of warrant. | After execution of warrant. | Total of Columns 2, 3 & 4. | Collected in advance in the previous year. | On service of bill.                          | After issue and before execution of warrant. | After execution of warrant. | Total of Columns 6, 7, 8 & 9.              | Total of Columns 5 & 10. |    |
| 1. Tax on Arts, &c. ...                            | 1,912 8 0           | 207 8 0                                      | 39 8 4                      | 2,159 8 4                  | 10 0 0                                     | 1,69,962 0 0                                 | 295 0 0                                      | 15 0 0                      | 1,70,282 0 0                               | 1,72,441 8 4             |    |
| 2. House Tax on Buildings and Lands ...            | 1,116 2 7           | 16,898 12 8                                  | 458 2 6                     | 18,473 1 9                 | 2,231 13 2                                 | 9,08,450 13 7                                | 6,886 0 2                                    | 114 6 9                     | 9,17,683 1 8                               | 9,36,156 3 5             |    |
| 3. Water and Drainage Tax on do ...                | 725 8 1             | 10,984 5 5                                   | 297 12 9                    | 12,007 10 3                | 1,450 11 0                                 | 5,89,411 4 9                                 | 4,475 14 8                                   | 74 6 2                      | 5,95,412 4 7                               | 6,07,419 14 10           |    |
| 4. Lighting Tax on do ...                          | 139 8 4             | 2,112 5 11                                   | 57 4 4                      | 2,309 2 7                  | 278 15 8                                   | 1,13,394 10 1                                | 860 12 0                                     | 14 4 10                     | 1,14,518 10 7                              | 1,16,867 13 2            |    |
| 5. Tax on Vehicles with springs and on Animals ... | 772 2 0             | 1,457 0 0                                    | 90 0 0                      | 2,319 2 0                  | 2,356 0 0                                  | 1,04,677 4 10                                | 431 13 2                                     | 28 4 0                      | 1,07,493 6 0                               | 1,09,812 8 0             |    |
| 6. Payment for occupation of Municipal Lands ...   | 67 6 0              | ...                                          | 1 14 0                      | 69 4 0                     | ...                                        | 5,225 12 6                                   | ...                                          | 9 10 0                      | 5,235 6 6                                  | 5,304 10 6               |    |



## APPENDIX I.

TABLE No. 1.

Statement showing the current demand, collection, remission and balance under the combined property taxes as compared with the corresponding figures for 1913-14 and 1914-15.

| Year.       | Gross Demand. |       | Remitted on appeal. |       | Net Demand. |       | Collection. |       | Remission and written off. |       | Balance.   |       | Percentage of collection to net demand. |
|-------------|---------------|-------|---------------------|-------|-------------|-------|-------------|-------|----------------------------|-------|------------|-------|-----------------------------------------|
|             | Rs.           | A. P. | Rs.                 | A. P. | Rs.         | A. P. | Rs.         | A. P. | Rs.                        | A. P. | Rs.        | A. P. |                                         |
| 1913-14 ... | 15,70,971     | 11 1  | 1,587               | 10 3  | 15,69,384   | 0 10  | 14,69,099   | 11 5  | 14,267                     | 15 0  | 86,016     | 6 5   | 93.61                                   |
| 1914-15 ... | 16,53,135     | 15 2  | 1,601               | 12 3  | 16,51,534   | 2 11  | 15,93,403   | 4 5   | 16,011                     | 9 5   | 42,119     | 5 1   | 96.48                                   |
| 1915-16 ... | 16,97,340     | 13 3  | 564                 | 12 8  | 16,96,776   | 0 7   | 16,27,644   | 0 10  | 19,618                     | 8 3   | (a) 49,513 | 7 6   | (b) 95.93                               |

(a) Includes Rs. 4,930-2-6, amount due by Government for enhanced assessments on Military buildings.

(b) The percentage of collection to the net demand exclusive of the amount due by Government for enhanced assessments on Military buildings is 96.21.

## APPENDIX I.

TABLE No. 2.

Statement showing the demand, collection, remission and balance under the combined arrear property taxes on buildings and lands as compared with the corresponding figures for the years 1913-14 and 1914-15.

| Year.   | Outstanding balance at the beginning of the year. |       | Subsequent amendments and additions. |       | Total demand. |       | Collection. |       | Remission and written off. |       | Balance.   |       | Percentage of collection to net demand. |
|---------|---------------------------------------------------|-------|--------------------------------------|-------|---------------|-------|-------------|-------|----------------------------|-------|------------|-------|-----------------------------------------|
|         | Rs.                                               | A. P. | Rs.                                  | A. P. | Rs.           | A. P. | Rs.         | A. P. | Rs.                        | A. P. | Rs.        | A. P. |                                         |
| 1913-14 | 79,859                                            | 15 7  | 385                                  | 1 1   | 80,245        | 0 8   | 7,173       | 7 0   | 443                        | 9 9   | 72,627     | 15 11 | 8.94                                    |
| 1914-15 | 1,58,644                                          | 6 4   | 66,087                               | 2 3   | 92,557        | 4 1   | 76,184      | 15 3  | 790                        | 13 1  | (a) 15,581 | 7 9   | 82.31                                   |
| 1915-16 | 57,700                                            | 12 10 | — 6,736                              | 14 8  | 50,963        | 14 2  | 32,789      | 14 7  | 1,846                      | 13 7  | (a) 16,327 | 2 0   | (b) 64.34                               |

(a) Includes Rs. 14,790-7-6 the amount due by Government for enhanced assessment on Military buildings.

(b) The percentage of collection to net demand exclusive of the amount due by Government for enhanced assessment on Military buildings and the amount covered by decrees is 91.30

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TABLE No. 3.

Statement showing the number of Vehicles and Animals assessed for the year 1915-16 as compared with that of 1914-15.

| Description of Vehicles and Animals. |                                                                                                                                                                      |     |     | Number assessed in 1914-15. | Number assessed in 1915-16. | Percentage of increase or decrease. |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----------------------------|-----------------------------|-------------------------------------|
| I. (a)                               | Four-Wheeled Vehicle with springs propelled by electricity, gas, steam or any other mechanical power                                                                 | ... | ... | 792                         | 944                         | +19.19                              |
| (b)                                  | Four-Wheeled Vehicle with springs drawn by two or more horses                                                                                                        | ... | ... | 135                         | 100                         | -25.92                              |
| II.                                  | Four-Wheeled Vehicle with springs drawn by a horse, mule, bull or bullock or by two or more horses under thirteen hands, or by two or more mules, bulls or bullocks. | ... | ... | 2,485                       | 2,337                       | -5.95                               |
| III.                                 | Two-Wheeled Vehicle with springs drawn by one or more horses, mules, bulls or bullocks                                                                               | ... | ... | 2,689                       | 2,647                       | -1.56                               |
| IV.                                  | Bicycle or tricycle propelled by electricity, gas or steam                                                                                                           | ... | ... | 616                         | 592                         | -3.89                               |
| V.                                   | Every other bicycle or tricycle                                                                                                                                      | ... | ... | 4,562                       | 4,512                       | -1.10                               |
| VI.                                  | Every other Vehicle with springs—                                                                                                                                    | ... | ... |                             |                             |                                     |
| (a)                                  | Perambulator                                                                                                                                                         | ... | ... | 208                         | 181                         | -12.98                              |
| (b)                                  | Finrickshaw                                                                                                                                                          | ... | ... | 1,924                       | 1,922                       | —10                                 |
| (c)                                  | Hand-cart with springs                                                                                                                                               | ... | ... | 148                         | 122                         | -17.57                              |
| VII.                                 | Horse over thirteen hands                                                                                                                                            | ... | ... | 2,776                       | 2,581                       | -7.02                               |
| VIII.                                | Horse of or under thirteen hands or mule                                                                                                                             | ... | ... | 2,033                       | 1,994                       | -1.91                               |
| IX.                                  | Horse of or under eleven hands                                                                                                                                       | ... | ... | 298                         | 276                         | -7.39                               |
| X.                                   | Bullock or Bull                                                                                                                                                      | ... | ... | 7,614                       | 7,596                       | —23                                 |
| XI.                                  | Mule Buffalo                                                                                                                                                         | ... | ... | 39                          | 46                          | +17.95                              |
| XII.                                 | Ass                                                                                                                                                                  | ... | ... | 71                          | 48                          | -32.67                              |
| XIII.                                | Dog                                                                                                                                                                  | ... | ... | 3,806                       | 3,875                       | +1.02                               |

TABLE No. 4.

Statement showing the Details of Refunds of other than current collections during 1915-16.

| Particulars.                                                        |     |     |     | Amount. |    |    |
|---------------------------------------------------------------------|-----|-----|-----|---------|----|----|
|                                                                     |     |     |     | Rs.     | A. | P. |
| Tax on Arts, &c.                                                    | ... | ... | ... | 145     | 0  | 0  |
| House, Water and Drainage and Lighting taxes on Buildings and Lands | ... | ... | ... | 5,767   | 12 | 9  |
| Tax on Vehicles with Springs                                        | ... | ... | ... | 86      | 0  | 0  |
| Tax on Animals                                                      | ... | ... | ... | 39      | 1  | 0  |
| Tax on Carts                                                        | ... | ... | ... | 21      | 0  | 0  |
| License fees on Timber and Firewood                                 | ... | ... | ... | 19,305  | 10 | 0  |
| Miscellaneous                                                       | ... | ... | ... | 1,288   | 15 | 6  |
| Total...                                                            |     |     |     | 26,653  | 7  | 3  |



TABLE No. 5.

Statement of actual arrear balance under combined property taxes on buildings and lands outstanding at the close of the year 1915-16 inclusive of the amount covered by decrees.

| Period.     | Actual arrear balance outstanding on 31st March 1916 exclusive of the sum due by Government for Military buildings |       | Amount covered by decrees. |       | Balance for Recovery. |       |
|-------------|--------------------------------------------------------------------------------------------------------------------|-------|----------------------------|-------|-----------------------|-------|
|             | Rs.                                                                                                                | A. P. | Rs.                        | A. P. | Rs.                   | A. P. |
| 1911-12 ... | 2                                                                                                                  | 13 10 | 1                          | 13 10 | 1                     | ....  |
| 1912-13 ... | 127                                                                                                                | 6 8   | 6                          | 10 6  | 120                   | 12 2  |
| 1913-14 ... | 127                                                                                                                | 13 1  | 103                        | 1 1   | 24                    | 12 0  |
| 1914-15 ... | 1,278                                                                                                              | 8 11  | 147                        | 2 7   | 1,131                 | 6 4   |
| Total ...   | 1,536                                                                                                              | 10 6  | 258                        | 12 0  | 1,277                 | 14 6  |

TABLE No. 6.

The following statement exhibits the result of the elections in 1915-16 to fill vacancies among Divisional Commissioners.

| Division. | Date of Election. | Date when gazetted. | Name of candidate elected.                     |
|-----------|-------------------|---------------------|------------------------------------------------|
| 14        | 10-12-1915        | 14-12-1915          | M.R.Ry. S. Venkataramasawmy Mudaliyar Avargal. |
| 16        | 15-10-1915        | 9-11-1915           | „ G. R. Audikesavalu Nayudu Garu.              |

## FORM I.

Statement showing the constitution of the Corporation of Madras on 31st March 1916.

| 1                 | 2                           | 3                      | 4                                    | 5                                      | 6                             |     |     |     |     |     |     |     | 7        |
|-------------------|-----------------------------|------------------------|--------------------------------------|----------------------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|----------|
| Name of District. | Serial No. of Municipality. | Name of Municipality.  | Act under which constituted.         | Population within the Municipal limits | Number of Members of Council. |     |     |     |     |     |     |     | REMARKS. |
|                   |                             |                        |                                      |                                        | (a)                           | (b) | (c) | (d) | (e) | (f) | (g) | (h) |          |
| Madras.           | 1                           | Corporation of Madras. | The Madras City Municipal Act, 1904. | 5,18,660                               | 1                             | 15  | 20  | 36  | 4   | 32  | 13  | 23  |          |



## Statement of Loans for 1915-16.

| Amount of loan and rate of interest. | For what purpose and terms on which obtained and the year in which taken. | Date of Government Sanction.                                                                                                                    | Amount paid            |         |               | Amount transferred to Sinking Fund |         |               | Invested                      |                  |
|--------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|---------------|------------------------------------|---------|---------------|-------------------------------|------------------|
|                                      |                                                                           |                                                                                                                                                 | Up to 31st March 1915. |         | In 1915-1916. | Up to 31st March 1915.             |         | In 1915-1916. | In Government Securities, &c. | In Savings Bank. |
|                                      |                                                                           |                                                                                                                                                 | Number of years.       | Amount. |               | Number of years.                   | Amount. |               |                               |                  |
| 1                                    | 2                                                                         | 3                                                                                                                                               | 4                      | 5       | 6             | 7                                  | 8       | 9             | 10                            | 11               |
| † 14,30,000                          | 4 p.c.                                                                    | Waterworks Project—Repayable in 50 years by a Sinking Fund at 2 per cent. per annum. Taken in 1869-74.                                          |                        |         |               |                                    |         |               |                               |                  |
| 18,000                               | 5 p.c.                                                                    | Construction of Drains and Sewers for the Drainage of Georgetown—Repayable in 30 years by a Sinking Fund of Rs. 5,720 per annum. Taken in 1885. |                        |         |               |                                    |         |               |                               |                  |
| 2,89,000                             | 6 p.c.                                                                    | Do. do. 50 years Rs. 820 do. 1887.                                                                                                              |                        |         |               |                                    |         |               |                               |                  |
| 1,00,000                             | 6 p.c.                                                                    | Do. do. 50 years Rs. 1,200 do. do. 1888.                                                                                                        |                        |         |               |                                    |         |               |                               |                  |
| 1,50,000                             | 5 p.c.                                                                    | Do. do. 50 years Rs. 1,200 do. do. 1889.                                                                                                        |                        |         |               |                                    |         |               |                               |                  |
| 1,50,000                             | 5 p.c.                                                                    | Extension of Water supply—Repayable in 50 years by a Sinking Fund of Rs. 170 per annum. Taken in 1889.                                          |                        |         |               |                                    |         |               |                               |                  |
| 20,000                               | 5 p.c.                                                                    | Construction of Drains and Sewers for the Drainage of Georgetown—Repayable in 50 years by a Sinking Fund of Rs. 400 per annum. Taken in 1890.   |                        |         |               |                                    |         |               |                               |                  |
| 50,000                               | 5 p.c.                                                                    | Extension of Water supply—Do. Rs. 3,050 per annum. Taken in 1895.                                                                               |                        |         |               |                                    |         |               |                               |                  |
| 4,00,000                             | 4 p.c.                                                                    | Construction of Market—Do. Rs. 750 do. Taken in 1897.                                                                                           |                        |         |               |                                    |         |               |                               |                  |
| 1,00,000                             | 4 p.c.                                                                    | To repay the Government loan of 1899—Repayable in 50 years by a Sinking Fund of Rs. 1,520 per annum. Taken in 1899.                             |                        |         |               |                                    |         |               |                               |                  |
| 50,000                               | 4 p.c.                                                                    | For cleaning water pipes—Do. Rs. 380 do. do.                                                                                                    |                        |         |               |                                    |         |               |                               |                  |
| 4,20,000                             | 4 p.c.                                                                    | For drainage works—Do. " 3,190 do. do.                                                                                                          |                        |         |               |                                    |         |               |                               |                  |
| 1,50,000                             | 4 p.c.                                                                    | Construction of Market—Do. " 1,140 do. do.                                                                                                      |                        |         |               |                                    |         |               |                               |                  |
| 7,80,000                             | 4 p.c.                                                                    | For drainage works—Do. " 5,950 do. do.                                                                                                          |                        |         |               |                                    |         |               |                               |                  |
| 1,50,000                             | 4 p.c.                                                                    | For cleaning water pipes—Do. " 1,140 do. do.                                                                                                    |                        |         |               |                                    |         |               |                               |                  |
| 1,00,000                             | 4 p.c.                                                                    | To meet Plague charges—Do. " 760 do. do.                                                                                                        |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           |                                                                                                                                                 |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 2327, dated 17th July 1869, P. W. D., and No. 1279, dated 11th September 1873, P. W. D. ...                                                 |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 487, dated 9th March 1885, F.D. ...                                                                                                         |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 11 M., dated 10th April, 1885, F.D. ...                                                                                                     |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 458, dated 3rd Sept. 1885, F.D. ...                                                                                                         |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 705 M., dated 11th August 1887, L. & M. ...                                                                                                 |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 852 M., dated 4th Aug. '88, L. & M. ...                                                                                                     |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 1193 M., dated 18th Sept. '89, L. & M. ...                                                                                                  |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 1427 M., dated 25th October 1889, L. & M. ...                                                                                               |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 1562 M., dated 18th October 1890 ...                                                                                                        |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 16 M., Mis., dated 8th Jan. '95. ...                                                                                                        |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 883 M., Mis., dated 18th April 97. ...                                                                                                      |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 2217 M., Mis., dated 21st Decem-ber 1898, ...                                                                                               |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 1630 M., Mis., dated 19th Sep. '98. ...                                                                                                     |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 889 M., dated 17th March '99, L. & M. ...                                                                                                   |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 529 M., Mis., dated 24th April 1899, L. & M. ...                                                                                            |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 389 M., dated 17th March '99, L. & M. ...                                                                                                   |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 1530 M., Mis., dated 16th October 1899, and No. 758, M., dated 2nd June 1900, L. & M. ...                                                   |                        |         |               |                                    |         |               |                               |                  |
|                                      |                                                                           | No. 755 M., Mis., dated 1st June 1900 L. & M. ...                                                                                               |                        |         |               |                                    |         |               |                               |                  |

|            |        |                                                                                                                                                        |                                                                                    |     |         |            |     |           |             |           |     |
|------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|---------|------------|-----|-----------|-------------|-----------|-----|
| 1,20,000   | 4 p.c. | For substitution of C. I. pipes for a portion of Sewer No. II, repayable in 50 years by a Sinking Fund of Rs. 910 per annum. Taken in 1901-02.         | No. 1086 M. Mis., dated 30th July 1901, L. & M.                                    | ... | ...     | ...        | 14  | 15,100    | 1,600       | 16,700    | ... |
| 2,00,000   | 4 p.c. | For drainage works—Do.                                                                                                                                 | No. 150 M. Mis., dated 10th February 1902, L. & M.                                 | ... | ...     | ...        | 13  | 24,700    | 2,600       | 27,300    | ... |
| 5,00,000   | 4 p.c. | Do. do. do. do. do. do.                                                                                                                                | No. 35 M. Mis., dated 21st January 1903 and No. 869 M. Mis., dated 25th June 1903. | ... | ...     | ...        | 12  | 56,400    | 6,100       | 62,500    | ... |
| † 7,00,000 | 4 p.c. | Do. Repayable in 30 years by sixty equal half-yearly instalments of Rs. 20,137 each. Taken in 1905.                                                    | No. 2496 M. Mis., dated 30th November 1905                                         | 9   | 131,420 | 17,707-3-1 | ... | ...       | ...         | ...       | ... |
| 1,00,000   | 4 p.c. | For special buildings. Repayable in 30 years by a Sinking Fund of Rs. 2,100 per annum. Taken in 1906-07.                                               | No. 31 M. Mis., dated 10th January 1907.                                           | ... | ...     | ...        | 8   | 19,200    | 3,100       | 22,300    | ... |
| † 4,00,000 | 4 p.c. | For improvement of Water-supply and drainage works. Repayable in 30 years by sixty equal half-yearly instalments of Rs. 11,507 each. Taken in 1908-09. | No. 1983 M. Mis., dated 10th November 1908                                         | 6   | 47,076  | 8,992-7-1  | ... | ...       | ...         | ...       | ... |
| † 4,00,000 | 4 p.c. | Do. do. do. Taken in 1909-10.                                                                                                                          | No. 1550 M. Mis., dated 16th September 1909                                        | 5   | 38,433  | 8,642-8-3  | ... | ...       | ...         | ...       | ... |
| 4,25,000   | 4 p.c. | For special buildings. Repayable in 30 years by a Sinking Fund of Rs. 8,920 per annum. Taken in 1909-10.                                               | No. 1289 M. Mis., dated 12th August 1909                                           | ... | ...     | ...        | 6   | 50,200    | 11,300      | 61,500    | ... |
| 1,00,000   | 4 p.c. | For Napier Bridge. Repayable in 30 years by a Sinking Fund of Rs. 2,100 per annum. Taken in 1909-10.                                                   | Do. do.                                                                            | ... | ...     | ...        | 6   | 11,900    | 2,600       | 14,500    | ... |
| 50,000     | 4 p.c. | For Napier Bridge. Repayable in 30 years by a Sinking Fund of Rs. 1,040 per annum.                                                                     | Do. do.                                                                            | ... | ...     | ...        | 4   | 4,200     | 1,300       | 5,500     | ... |
| 3,00,000   | 4 p.c. | For special buildings. Repayable in 30 years by a Sinking Fund of Rs. 6,300 per annum.                                                                 | No. 2209 M. Mis., dated 14th December 1911                                         | ... | ...     | ...        | 3   | 19,200    | 7,200       | 26,400    | ... |
| † 1,00,000 | 4 p.c. | For improvement of Water-supply and Drainage. Repayable in 30 years by sixty equal half-yearly instalments of Rs. 2,876 each.                          | No. 2101 M. Mis., dated 29th November 1911                                         | 3   | 5,532   | 1,995-3-7  | ... | ...       | ...         | ...       | ... |
| 3,42,000   | 4 p.c. | For special buildings. Repayable in 30 years by a Sinking Fund of Rs. 7,180 per annum.                                                                 | No. 1891 M. Mis., dated 15th August 1913                                           | ... | ...     | ...        | 1   | 6,500     | 7,500       | 14,000    | ... |
| 2,00,000   | 4 p.c. | Do. do. do. do. do. do.                                                                                                                                | No. 422 M. Mis., dated 2nd March 1914...                                           | ... | ...     | ...        | 1   | 2,500     | 4,600       | 7,100     | ... |
| 50,000     | 4 p.c. | For Electric Lights per annum.                                                                                                                         | Do. do.                                                                            | ... | ...     | ...        | 1   | 700       | 1,000       | 1,700     | ... |
| 1,30,000   | 4 p.c. | Do. do. do. do. do. do.                                                                                                                                | No. 2588 M. Mis., dated 26th December 1914.                                        | ... | ...     | ...        | ... | ...       | 2,600       | 2,600     | ... |
| 1,70,000   | 4 p.c. | For special buildings per annum.                                                                                                                       | Do. do.                                                                            | ... | ...     | ...        | ... | ...       | 3,500       | 3,500     | ... |
| 2,04,680   | 4 p.c. | For repayment of the Georgetown drainage loan of 1885.                                                                                                 | No. 1994 M. Mis., dated 9th December 1915.                                         | ... | ...     | ...        | ... | ...       | ...         | ...       | ... |
| 90,41,680  |        |                                                                                                                                                        |                                                                                    | ... | 224,623 | 33,783-6-0 | ... | 23,68,700 | 1,37,20,000 | 25,05,900 | ... |

\* Represents the value of securities purchased for the annual allotment shown in Statement II plus interest realized on previous investments on open market loans.

† Loans from Government.



DR.

General Fund—[Vide G. O. No. 244, dated 13th February 1882.]

CR.

|                                                           | RS.       | A.  | P.  |                                                                              | RS.       | A.  | P.  |
|-----------------------------------------------------------|-----------|-----|-----|------------------------------------------------------------------------------|-----------|-----|-----|
| To Grant I.—Public Works ...                              | 7,56,498  | 8   | 6   | By Opening Balance ...                                                       | 12,30,738 | 3   | 3   |
| " " II.—Education ...                                     | 32,301    | 6   | 6   | " Municipal Rates and Taxes ...                                              | 12,51,300 | 13  | 8   |
| " " III.—Sanitation and Medical Services ...              | 7,37,764  | 14  | 3   | " Revenue derived from Municipal property and powers apart from Taxation ... | 4,06,545  | 3   | 0   |
| " " IV.—Miscellaneous Municipal purposes ...              | 2,04,728  | 12  | 1   | " Grants and Contributions ...                                               | 50,734    | 0   | 0   |
| " " V.—Supervision and Management ...                     | 1,04,570  | 13  | 10  | " Miscellaneous ...                                                          | 47,581    | 15  | 6   |
| " Repayment of Debt ...                                   | 39,510    | 0   | 0   | " Extraordinary and Debt ...                                                 | ...       | ... | ... |
| " Interest on Loan ...                                    | 89,798    | 0   | 0   | " Advances Recovered ...                                                     | 28,738    | 8   | 6   |
| " Advances recoverable ...                                | 32,435    | 7   | 1   | " Transferred from Water and Drainage Fund Loan Account ...                  | ...       | ... | ... |
| " Refund of other than Current Collections ...            | 16,442    | 9   | 8   |                                                                              |           |     |     |
| " Discount on Loan ...                                    | ...       | ... | ... |                                                                              |           |     |     |
| " Pensions and Gratuities ...                             | 24,168    | 3   | 9   |                                                                              |           |     |     |
| " Transfer to Water and Drainage Fund Revenue Account ... | 1,18,368  | 10  | 10  |                                                                              |           |     |     |
| " Transfer to Lighting Fund Loan a/c ...                  | 50,828    | 12  | 9   |                                                                              |           |     |     |
| " Closing Balance Revenue Account ...                     | 7,65,661  | 9   | 5   |                                                                              |           |     |     |
| " Do Loan Account ...                                     | 42,530    | 15  | 3   |                                                                              |           |     |     |
| Total ...                                                 | 30,15,638 | 11  | 11  | Total ...                                                                    | 30,15,638 | 11  | 11  |

DR.

Water and Drainage Fund—[Vide G. O., No. 244, dated 18th February 1882.]

CR.

|                                                                   | RS.       | A.  | P.  |                                                                               | RS.       | A.  | P.  |
|-------------------------------------------------------------------|-----------|-----|-----|-------------------------------------------------------------------------------|-----------|-----|-----|
| To Grant I.—Public Works—                                         |           |     |     | By Opening Balance ...                                                        | 4,95,955  | 7   | 8   |
| New Works—                                                        |           |     |     | " Municipal Rates and Taxes—                                                  |           |     |     |
| Buildings ...                                                     | 769       | 6   | 6   | Water Tax on Buildings and Lands ...                                          | 6,00,399  | 2   | 1   |
| Drainage ...                                                      | 5,99,372  | 9   | 4   | Water Tax on Lands ...                                                        | 8,141     | 4   | 2   |
| Water-supply ...                                                  | 4,37,598  | 14  | 8   | Tax on Vehicles, Animals and Cart ...                                         | 47,732    | 6   | 11  |
| Repairs—                                                          |           |     |     | By Revenue derived from Municipal property and powers apart from taxation ... | 1,19,467  | 5   | 7   |
| Buildings ...                                                     | 1,638     | 12  | 10  |                                                                               |           |     |     |
| Drainage—Repairs to Works, &c. ...                                | 3,52,786  | 14  | 10  | By Grants and Contributions—                                                  |           |     |     |
| Establishment ...                                                 | 54,685    | 14  | 5   | From Government—                                                              |           |     |     |
| Overtime ...                                                      | 4         | 11  | 2   | Improvement of Water-supply and Drainage ...                                  | 7,00,000  | 0   | 0   |
| Allowances ...                                                    | 1,978     | 15  | 7   | Improvements to Kelly's drain ...                                             | 10,223    | 0   | 0   |
| Water-supply—Repairs to Works, &c. ...                            | 1,32,715  | 9   | 9   | Miscellaneous—                                                                |           |     |     |
| Establishment ...                                                 | 18,484    | 12  | 7   | Payment for Water for non-domestic purposes ...                               | 1,34,482  | 6   | 8   |
| Allowances ...                                                    | 1,493     | 1   | 4   | Sundry Receipts—Waterworks ...                                                | 7,500     | 0   | 0   |
| Establishment—General ...                                         | 1,38,621  | 2   | 3   | Workshop Receipts ...                                                         | 6,497     | 2   | 8   |
| Miscellaneous—W. W. Contingent ...                                | 1,087     | 3   | 1   | Extraordinary and Debt—                                                       |           |     |     |
| " Grant IV.—Mis. Municipal purposes—                              |           |     |     | Loan from Government ...                                                      | ...       | ... | ... |
| Other Charges—                                                    |           |     |     | Interest on Sinking Fund—                                                     |           |     |     |
| Payment for Red Hills Water. Contribution to Provincial Funds ... | 32,347    | 0   | 0   | Waterworks Loan of 1869-73 ...                                                | 46,110    | 10  | 11  |
| Stores ...                                                        | 2,531     | 3   | 8   | Advances Recovered ...                                                        | 25,024    | 12  | 7   |
| Workshops ...                                                     | 7,024     | 11  | 2   | Transfer from General Fund Revenue Account ...                                | 1,18,368  | 10  | 10  |
| " Grant V.—Supervision and Management ...                         | 59,684    | 2   | 9   |                                                                               |           |     |     |
| " Repayment of Debt—                                              |           |     |     |                                                                               |           |     |     |
| Sinking Fund ...                                                  | 92,507    | 6   | 1   |                                                                               |           |     |     |
| Interest ...                                                      | 2,61,251  | 7   | 1   |                                                                               |           |     |     |
| Advances recoverable ...                                          | 13,617    | 4   | 3   |                                                                               |           |     |     |
| " Refund of other than Current Collections ...                    | 9,806     | 12  | 6   |                                                                               |           |     |     |
| Transferred to General Fund Revenue Account ...                   | ...       | ... | ... |                                                                               |           |     |     |
| Closing Balance Loan Account... ..                                | 99,945    | 6   | 3   |                                                                               |           |     |     |
| Total ...                                                         | 23,19,902 | 6   | 1   | Total ...                                                                     | 23,19,902 | 6   | 1   |

DR. *Lighting Fund—[Vide G. O. No. 244, dated 18th February 1882.]*

CR.

| To                                   | Grant I— | RS.      | A.  | P.  |                                   | RS.      | A.  | P.  |
|--------------------------------------|----------|----------|-----|-----|-----------------------------------|----------|-----|-----|
| Establishment—General                | ...      | 2,009    | 7   | 6   | By Opening Balance—               |          |     |     |
| " Grant IV—                          |          |          |     |     |                                   |          |     |     |
| Lighting—Establishment               | ...      | 1,744    | 5   | 4   | " Municipal Rates and             | 1,23,631 | 7   | 0   |
| Allowance                            | ...      | 177      | 13  | 5   | Taxes—                            |          |     |     |
| Labor                                | ...      | 8,076    | 9   | 9   | Lighting Tax on                   | 1,15,489 | 12  | 3   |
| Maintenance                          | ...      | 97,155   | 8   | 3   | Buildings and Lands—              |          |     |     |
| Additional Lamps and                 |          |          |     |     | Lighting Tax on Lands—            | 1,583    | 8   | 5   |
| Sundries                             | ...      | 1,38,157 | 6   | 4   |                                   |          |     |     |
| Repairs to Lamps and                 |          |          |     |     | " Miscellaneous—                  |          |     |     |
| Posts                                | ...      | 6,342    | 12  | 3   | Refund from expenditure of previ- |          |     |     |
| Other charges—                       |          |          |     |     | ous years                         | ...      | ... | ... |
| Stores                               | ...      | 289      | 4   | 6   | Workshop Receipts                 | 742      | 8   | 6   |
| Workshops                            | ...      | 802      | 11  | 4   | Extraordinary and debt            | ...      | ... | ... |
| " Grant V—                           |          |          |     |     | Transferred from General Fund     |          |     |     |
| Salaries of Officers                 | ...      | 1,284    | 7   | 9   | Loan Account                      | 50,828   | 12  | 9   |
| Head Office                          | ...      | 1,347    | 4   | 1   |                                   |          |     |     |
| Assessment and Collection            | ...      | 4,211    | 11  | 2   |                                   |          |     |     |
| Repayment of Debt—                   |          |          |     |     |                                   |          |     |     |
| Sinking Fund                         | ...      | 3,740    | 0   | 0   |                                   |          |     |     |
| Interest                             | ...      | 6,680    | 0   | 0   |                                   |          |     |     |
| " Refund of other than Current       |          |          |     |     |                                   |          |     |     |
| Collections                          | ...      | 404      | 1   | 1   |                                   |          |     |     |
| " Closing Balance (Revenue account). | ...      | 19,762   | 10  | 2   |                                   |          |     |     |
| Do. (Loan account)                   | ...      | ...      | ... | ... |                                   |          |     |     |
| Total                                | ...      | 2,92,276 | 0   | 11  | Total                             | 2,92,276 | 0   | 11  |

*Revenue and Capital Accounts for 1915-16 as compared with the Revised Estimate for 1915-16.*

|                                                                        | REVENUE ACCOUNT.     |                                  | CAPITAL ACCOUNT.     |                                  | TOTAL.               |                                  |
|------------------------------------------------------------------------|----------------------|----------------------------------|----------------------|----------------------------------|----------------------|----------------------------------|
|                                                                        | Actuals,<br>1915-16. | Revised<br>Estimate,<br>1915-16. | Actuals,<br>1915-16. | Revised<br>Estimate,<br>1915-16. | Actuals,<br>1915-16. | Revised<br>Estimate,<br>1915-16. |
| <b>Receipts—</b>                                                       |                      |                                  |                      |                                  |                      |                                  |
| Opening Balance                                                        | RS. 10,48,476        | RS. 10,48,480                    | RS. 8,01,849         | RS. 8,01,850                     | RS. 18,50,325        | RS. 18,50,330                    |
| Municipal Rates and Taxes                                              | 20,24,647            | 20,43,160                        | ...                  | ...                              | 20,24,617            | 20,43,160                        |
| Revenue derived from Municipal property and powers apart from Taxation | 5,02,779             | 4,83,520                         | 23,233               | 23,000                           | 5,26,012             | 5,06,520                         |
| Grants and Contributions                                               | 60,957               | 60,960                           | 7,00,000             | 7,00,000                         | 7,60,957             | 7,60,960                         |
| Miscellaneous                                                          | 1,96,804             | 1,88,090                         | ...                  | ...                              | 1,96,804             | 1,88,090                         |
| Extraordinary and Debt                                                 | 46,111               | 46,000                           | ...                  | ...                              | 46,111               | 46,000                           |
| Advances Recovered                                                     | 28,738               | 35,000                           | 25,025               | 32,000                           | 53,763               | 67,000                           |
| Transferred from Revenue Account                                       | ...                  | ...                              | ...                  | ...                              | ...                  | ...                              |
| Total                                                                  | 39,08,512            | 39,05,900                        | 15,50,107            | 15,56,850                        | 54,58,619            | 54,62,750                        |
| <b>Charges—</b>                                                        |                      |                                  |                      |                                  |                      |                                  |
| Grant I—Public Works                                                   | 12,43,283            | 13,18,860                        | 12,56,503            | 14,02,150                        | 24,99,786            | 27,21,010                        |
| II—Education                                                           | 32,301               | 43,480                           | ...                  | ...                              | 32,301               | 43,480                           |
| III—Sanitation and Medical Services                                    | 7,37,765             | 7,65,930                         | ...                  | ...                              | 7,37,765             | 7,65,930                         |
| IV—Miscellaneous Municipal Purposes                                    | 3,61,867             | 4,24,860                         | 1,37,511             | 1,38,310                         | 4,99,378             | 5,63,170                         |
| V—Supervision and Management                                           | 1,71,099             | 1,72,240                         | ...                  | ...                              | 1,71,099             | 1,72,240                         |
| Repayment of Debt                                                      | 1,35,757             | 1,35,750                         | ...                  | ...                              | 1,35,757             | 1,35,750                         |
| Interest on Loans                                                      | 3,57,729             | 3,61,370                         | ...                  | ...                              | 3,57,729             | 3,61,370                         |
| Advances Recoverable                                                   | 32,465               | 26,090                           | 13,617               | 5,000                            | 46,082               | 31,090                           |
| Refund of other than Current Collections                               | 26,654               | 42,000                           | ...                  | ...                              | 26,654               | 42,000                           |
| Discount                                                               | ...                  | ...                              | ...                  | ...                              | ...                  | ...                              |
| Pensions and Gratuities                                                | 24,168               | 23,250                           | ...                  | ...                              | 24,168               | 23,250                           |
| Transferred to Capital Account                                         | ...                  | ...                              | ...                  | ...                              | ...                  | ...                              |
| Closing Balance                                                        | 7,85,424             | 5,92,070                         | 1,42,476             | 11,390                           | 9,27,900             | 6,03,460                         |
| Total                                                                  | 39,08,512            | 39,05,900                        | 15,50,107            | 15,56,850                        | 54,58,619            | 54,62,750                        |



Statement showing the expenditure incurred by the Corporation of Madras during the year 1915-16  
from the special grants received from Provincial Funds.

| Opening balance. | No. and date of Government order sanctioning the grant for the year.                         | Purpose for which the grant was made.                     | Amount of grant received during the year. | Actual expenditure during the year out of the grants shown in col. 4. | Balance of grant at the close of the year (col. 4 minus col. 5). | Expenditure incurred during the year out of the balance of grants sanctioned in previous years shown in col. 1. | Balance of such grants remaining unutilized at the close of the year (col. 1 minus col. 7). | Closing balance (col. 6 plus col. 8). | REMARKS. |
|------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------|----------|
| 1                | 2                                                                                            | 3                                                         | 4                                         | 5                                                                     | 6                                                                | 7                                                                                                               | 8                                                                                           | 9                                     | 10       |
| Rs. 76,587       | G.O. No. 876-M. Mis. }<br>dated 2nd May 1914. }                                              | For Malaria investigation                                 | ...                                       | ...                                                                   | Rs. ...                                                          | Rs. 7,857                                                                                                       | Rs. 68,730                                                                                  | Rs. 68,730                            |          |
| 4,971            | G.O. No. 841-M. Mis. }<br>dated 24th March 1913. }                                           | For construction of bear pits and aviary in People's Park | ...                                       | ...                                                                   | ...                                                              | ...                                                                                                             | ...                                                                                         | 4,971                                 |          |
| 19,288           | G.O. No. 1520-M. Mis. }<br>dated 6th August 1913. }                                          | For Sanitary Works                                        | ...                                       | ...                                                                   | ...                                                              | ...                                                                                                             | ...                                                                                         | 19,288                                |          |
| 3,67,780         | G.O. No. 815-M. Mis. }<br>dated 28th May 1915 }<br>& No. 422-M. dated }<br>28th Feb. 1916. } | For improvement of Water-supply and Drainage              | 7,00,000                                  | 6,00,055                                                              | 99,945                                                           | 3,67,780                                                                                                        | ...                                                                                         | 99,945                                |          |
| 1,25,000         | G.O. No. 1045-M. Mis. }<br>dated 27th May 1914. }                                            | For acquisition of lands for Sewage Farm                  | ...                                       | ...                                                                   | ...                                                              | ...                                                                                                             | ...                                                                                         | 1,25,000                              |          |
| 50,000           | Do.                                                                                          | For construction of model cow-houses                      | ...                                       | ...                                                                   | ...                                                              | 43,682                                                                                                          | 6,318                                                                                       | 6,318                                 |          |
| ...              | G.O. No. 850-M. Mis. }<br>dated 7th June 1915. }                                             | For acquisition of lands for washermen settlement         | 10,384                                    | ...                                                                   | 10,384                                                           | ...                                                                                                             | ...                                                                                         | 10,384                                |          |
| ...              | G.O. No. 891-R. Fin. }<br>dated 8th Dec. 1915 }<br>& No. 475 M. dated }<br>9th March 1916. } | For improvements to Kelly's drain.                        | 10,223                                    | ...                                                                   | 10,223                                                           | ...                                                                                                             | ...                                                                                         | 10,223                                |          |

Statement showing the expenditure on works in charge of the Special Engineer for the last eight years since his Department was created.

| Particulars.                                               | 1908-09.      | 1909-10.        | 1910-11.        | 1911-12.        | 1912-13.        | 1913-14.         | 1914-15.        | 1915-16.        | Total.           |
|------------------------------------------------------------|---------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|
| Water-supply:—New Works ...                                | Rs.<br>94,108 | Rs.<br>2,06,778 | Rs.<br>3,47,217 | Rs.<br>4,81,338 | Rs.<br>6,63,591 | Rs.<br>17,28,367 | Rs.<br>6,36,480 | Rs.<br>4,64,476 | Rs.<br>46,22,355 |
| Drainage :— Do. ...                                        | 67,240        | 86,216          | 4,18,032        | 5,37,049        | 4,69,810        | 3,20,136         | 3,03,622        | 6,66,175        | 28,68,280        |
| Drainage { Pumping Stations ...                            | ...           | 86,324          | 1,14,889        | 1,21,774        | 1,42,912        | 1,46,546         | 1,85,870        | 1,80,974        | 9,79,289         |
| Maintenance { Sewer cleaning ...                           | ...           | 15,303          | 21,344          | 14,385          | 18,270          | ...              | ...             | ...             | 69,302           |
| Water-supply :—Repairs, Kilpauk Pumping Station ...        | ...           | ...             | ...             | ...             | ...             | ...              | 20,312          | 87,007          | 1,07,819         |
| Works executed and the cost charged to Revenue account ... | ...           | 7,930           | 9,863           | 8,864           | 1,373           | 13,380           | 6,152           | ...             | 47,562           |
| Private work executed ...                                  | ...           | 455             | 1,013           | 729             | 1,354           | 23,298           | 72,337          | 3,736           | 1,02,922         |
| Anti-Malaria Engineering Works ...                         | ...           | ...             | ...             | ...             | ...             | ...              | ...             | 19,625          | 19,625           |
| Total Rs. ...                                              | 1,61,348      | 4,03,006        | 9,12,358        | 11,64,139       | 12,97,310       | 22,31,727        | 12,25,273       | 14,21,993       | 88,17,154        |



## SPECIAL WORKS DEPARTMENT.

Expenditure under Capital Account.

| Particulars.                      |     |     |     | Amount from<br>1-4-1908<br>to 31-3-16. |       | Amount for<br>1915-16. |       |
|-----------------------------------|-----|-----|-----|----------------------------------------|-------|------------------------|-------|
|                                   |     |     |     | Rs.                                    | A. P. | Rs.                    | A. P. |
| <b>Drainage Section.</b>          |     |     |     |                                        |       |                        |       |
| New Drainage Works "Special"      | ... | ... | ... | 29,54,625                              | 9 1   | 8,62,117               | 6 0   |
| Establishment—                    |     |     |     |                                        |       |                        |       |
| General Branch                    | ... | ... | ... | 1,35,219                               | 4 0   | 23,438                 | 9 3   |
| Design and Construction           | ... | ... | ... | 2,98,749                               | 11 3  | 52,962                 | 3 6   |
| Famine Allowance                  | ... | ... | ... | 1,968                                  | 10 9  | 296                    | 15 7  |
| Conveyance Allowance              | ... | ... | ... | 10,819                                 | 5 9   | 2,321                  | 9 5   |
| Charge Allowance                  | ... | ... | ... | 925                                    | 3 10  | 143                    | 8 9   |
| Sewer No. II                      | ... | ... | ... | 568                                    | 1 9   | ...                    | ...   |
| George Town Drainage              | ... | ... | ... | 889                                    | 0 0   | ...                    | ...   |
| Miscellaneous                     | ... | ... | ... | 1,35,089                               | 7 8   | 18,691                 | 6 1   |
| Total for Drainage Works          |     |     |     | 35,38,854                              | 6 1   | 9,59,971               | 10 7  |
| Sales of Stores                   |     |     |     | 6,70,575                               | 4 10  | 2,93,796               | 12 10 |
| Net Expenditure                   |     |     |     | 28,68,279                              | 1 3   | 6,66,174               | 13 9  |
| <b>Water-works Section.</b>       |     |     |     |                                        |       |                        |       |
| New Water-supply Works "Special"  | ... | ... | ... | 28,75,399                              | 4 1   | 1,91,980               | 14 6  |
| Establishment—                    |     |     |     |                                        |       |                        |       |
| General Branch                    | ... | ... | ... | 1,23,489                               | 10 8  | 11,719                 | 4 7   |
| Construction                      | ... | ... | ... | 1,49,172                               | 7 10  | 6,024                  | 11 2  |
| Famine Allowance                  | ... | ... | ... | 1,591                                  | 2 3   | 102                    | 12 3  |
| Travelling Allowances to Officers | ... | ... | ... | 3,762                                  | 6 8   | 169                    | 4 6   |
| Charge Allowance                  | ... | ... | ... | 732                                    | 15 9  | 50                     | 0 0   |
| Miscellaneous                     | ... | ... | ... | 55,063                                 | 12 10 | 5,330                  | 11 1  |
| Distribution Scheme—              |     |     |     |                                        |       |                        |       |
| Establishment                     | ... | ... | ... | 63,801                                 | 6 7   | 21,746                 | 11 7  |
| Famine Allowance                  | ... | ... | ... | 141                                    | 13 9  | 77                     | 15 4  |
| Conveyance Allowance              | ... | ... | ... | 2,710                                  | 18 1  | 1,154                  | 3 9   |
| Works &c.                         | ... | ... | ... | 19,22,364                              | 11 7  | 2,72,491               | 3 0   |
| Total for Water-supply            |     |     |     | 51,98,230                              | 9 1   | 5,10,847               | 11 9  |
| Sales of Stores                   |     |     |     | 5,75,874                               | 15 11 | 46,371                 | 6 0   |
| Net Expenditure                   |     |     |     | 46,22,355                              | 9 2   | 4,64,476               | 5 9   |
| <b>Summary of Expenditure.</b>    |     |     |     |                                        |       |                        |       |
| Drainage Works                    | ... | ... | ... | 35,38,854                              | 6 1   | 9,59,971               | 10 7  |
| Water-works                       | ... | ... | ... | 51,98,230                              | 9 1   | 5,10,847               | 11 9  |
| Total                             |     |     |     | 87,37,084                              | 15 2  | 14,70,819              | 6 4   |
| Deduct Sales of Stores            |     |     |     | 12,46,450                              | 4 9   | 3,40,168               | 2 10  |
| Net Expenditure                   |     |     |     | 74,90,634                              | 10 5  | 11,30,651              | 3 6   |

## SPECIAL WORKS DEPARTMENT, DRAINAGE SECTION.

Statement showing details of works carried out from 1st April 1915 to 31st March 1916.

*Note.*—These do not include Tondiarpet and other Petty Works.

| I. Lengths of Pipes laid— |                                       |     |     |     |     |     | Feet. |
|---------------------------|---------------------------------------|-----|-----|-----|-----|-----|-------|
| 4"                        | Stoneware Pipes for house connections | ... | ... | ... | ... | ... | 4,597 |
| 6"                        | Do. do. for sewers                    | ... | ... | ... | ... | ... | 1,183 |
| 9"                        | Do. do. do.                           | ... | ... | ... | ... | ... | 1,041 |
|                           |                                       |     |     |     |     |     | No.   |
| II.                       | Manholes constructed                  | ... | ... | ... | ... | ... | 10    |
| III.                      | Lamphole                              | ... | ... | ... | ... | ... | 8     |



## SPECIAL WORKS DEPARTMENT—DISTRIBUTION SCHEME.

Contract M. and M. No. 22-A (Turner Hoare &amp; Co.)

*Delivery of C. I. Pipes to 31st March 1916.*

| Diameter of pipes in inches. | Length of pipes in contract in feet. | Total number in feet delivered up to 31-3-16. | Length of pipes to be supplied. | Remarks. |
|------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------|----------|
| 42"                          | 48                                   | ...                                           | 48                              |          |
| 40"                          | 168                                  | ...                                           | 168                             |          |
| 36"                          | 1,896                                | ...                                           | 1,896                           |          |
| 33"                          | 1,410                                | ...                                           | 1,410                           |          |
| 30"                          | 717                                  | ...                                           | 717                             |          |
| 27"                          | 1,194                                | ...                                           | 1,194                           |          |
| 24"                          | 480                                  | ...                                           | 480                             |          |
| 22"                          | 24                                   | ...                                           | 24                              |          |
| 21"                          | 276                                  | ...                                           | 276                             |          |
| 20"                          | 24                                   | ...                                           | 24                              |          |
| 18"                          | 2,160                                | 1,500                                         | 660                             |          |
| 16"                          | 504                                  | ...                                           | 504                             |          |
| 14"                          | 5,640                                | ...                                           | 5,640                           |          |
| 12"                          | 14,520                               | 1,956                                         | 12,564                          |          |
| 10"                          | 8,280                                | 480                                           | 7,800                           |          |
| 9"                           | 7,110                                | ...                                           | 7,110                           |          |
| 8"                           | 1,440                                | ...                                           | 1,440                           |          |
| 7"                           | 6,480                                | ...                                           | 6,480                           |          |
| 6"                           | 4,950                                | ...                                           | 4,950                           |          |
| 5"                           | 9,900                                | ...                                           | 9,900                           |          |
| 4"                           | 1,80,000                             | 12,420                                        | 1,67,580                        |          |
| 3"                           | 900                                  | ...                                           | 900                             |          |
| 2½"                          | 6,300                                | ...                                           | 6,300                           |          |
| 2"                           | ...                                  | ...                                           | ...                             |          |
| Total length in lineal feet. | *2,54,421                            | 16,356                                        | 2,38,065                        |          |

\* Includes 4,149 ft. of C. I. turned and bored pipes of sizes.

## SPECIAL WORKS DEPARTMENT—DISTRIBUTION SCHEME.

*C. I. Pipes laid up to 31st March, 1916.*

| Diameter of Pipes.          | Contract No. 10—Main No. 1.<br>(M. Bashyam Naidu.) |                                |                     |
|-----------------------------|----------------------------------------------------|--------------------------------|---------------------|
|                             | Length in Contract.                                | Total laid to 31st March 1916. | Balance to be laid. |
| 42"                         | 13,738                                             | 1,3585                         | 153                 |
| 36"                         | 4,935                                              | 4,674                          | 261                 |
| 33"                         | 1,648                                              | 1,828                          | —180                |
| 30"                         | 1,698                                              | 1,692                          | 6                   |
| 27"                         | 1,962                                              | 2,126                          | —164                |
| 24"                         | 735                                                | 852                            | —117                |
| 20"                         | 1,382                                              | 1,355                          | 27                  |
| 18"                         | 2,225                                              | 2,323                          | —98                 |
| 16"                         | ...                                                | ...                            | ...                 |
| 14"                         | 1,040                                              | 1,112                          | —72                 |
| 12"                         | 1,673                                              | 1,786                          | —113                |
| 10"                         | 1,614                                              | 1,624                          | —10                 |
| 9"                          | ...                                                | 113                            | —113                |
| 8"                          | ...                                                | ...                            | ...                 |
| 7"                          | 688                                                | 743                            | —55                 |
| 6"                          | 2,092                                              | 2,110                          | —18                 |
| 5"                          | ...                                                | ...                            | ...                 |
| 4"                          | ...                                                | ...                            | ...                 |
| Total length in lineal feet | 35,430                                             | 35,923                         | —493                |
| Value of Work, Rs.          | 1,22,388                                           | 1,52,757                       | —30,369             |



## CONSTRUCTION WORKS—WATER DISTRIBUTION SCHEME.

## DISTRIBUTARY PIPES.

Laying Cast Iron Pipes.

| Diameter of Pipes.          | Total to 31st March 1916. |                                 |                                  | Remarks. |
|-----------------------------|---------------------------|---------------------------------|----------------------------------|----------|
|                             | Contract P. W.<br>No. 9.  | Contract P. W.<br>No. 10 & 10-A | Contract P. W.<br>No. 11 & 11-A. |          |
|                             | Lineal feet.              | Lineal feet.                    | Lineal feet.                     |          |
| 18"                         | 11                        | ...                             | 6,881                            |          |
| 16"                         | 2,469                     | ...                             | 3,221                            |          |
| 14"                         | ...                       | ...                             | 3                                |          |
| 12"                         | 20                        | ...                             | 7                                |          |
| 10"                         | 531                       | ...                             | ...                              |          |
| 8"                          | ...                       | ...                             | 50                               |          |
| 7"                          | 1,710                     | ...                             | 426                              |          |
| 6"                          | 6,410                     | 1,190                           | 3,844                            |          |
| 5"                          | 5,755                     | 599                             | 13,590                           |          |
| 4"                          | 47,683                    | 24,632                          | 26,625                           |          |
| 3"                          | 4,551                     | 2,276                           | 2,952                            |          |
| 2½"                         | 130                       | ...                             | 38                               |          |
| 2"                          | 197                       | ...                             | 37                               |          |
| Total length in lineal feet | 69,467                    | 28,697                          | 57,674                           |          |
| Value of works executed     | Rs.<br>55,000             | Rs.<br>14,000                   | Rs.<br>63,000                    |          |

## CONSTRUCTION WORKS—DRAINAGE SECTION.

## Laying Cast Iron Pipes.

|                               |     | Total to 31st March 1916.                 |     |                               |     |          |
|-------------------------------|-----|-------------------------------------------|-----|-------------------------------|-----|----------|
| Diameter of Pipes.            |     | Purasawakam<br>Gravitation Main<br>No. 5. |     | Purasawakam<br>Branch Sewers. |     | Remarks. |
|                               |     | Lineal feet.                              | No. | Lineal feet.                  | No. |          |
| 42"                           | ... | 204                                       | ... | ...                           | ... |          |
| 36" and 33"                   | ... | 595                                       | ... | ...                           | ... |          |
| 24"                           | ... | ...                                       | ... | 134                           | ... |          |
| 18"                           | ... | ...                                       | ... | 699                           | ... |          |
| 16"                           | ... | ...                                       | ... | 692                           | ... |          |
| Manholes                      | ... | ...                                       | 9   | ...                           | 12  |          |
| Total length of pipes<br>laid | ... | 799                                       | 9   | 1,525                         | 12  |          |
| Value of work exe-<br>cuted   | ... | Rs. 50,450                                |     | Rs 53,390                     |     |          |

APPENDIX II—TABLE No. 5-A.  
CONSTRUCTION WORKS—DRAINAGE SECTION.  
Napier Park Gravitation Main—Brick Sewer.

| —                          | Total to 31st March 1916. |                                          | Remarks. |
|----------------------------|---------------------------|------------------------------------------|----------|
|                            | Departmental Section.     | Contract N. P. No. 1 (M. Bashyam Naidu). |          |
| Completed Sewer ...        | Lineal feet.<br>1,030     | Lineal feet.<br>1,096                    |          |
| Value of work executed ... | Rs. 16,400                | Rs. 15,720                               |          |

APPENDIX II—TABLE No. 5-B.  
CONSTRUCTION WORKS—DRAINAGE SECTION.  
Purasawakam Gravitation Main—Brick Sewer.

|                        |     |                                                 |                                                       |
|------------------------|-----|-------------------------------------------------|-------------------------------------------------------|
| —                      |     | Total to 31st March 1916.                       | Remarks.                                              |
|                        |     | Contract P. M. No. 1<br>(O. Sudarsana Maistry.) |                                                       |
| Completed Sewer        | ... | Lineal feet.<br>125                             | Includes advance paid on value<br>of timber supplied. |
| Value of work executed | ... | Rs. 12,754                                      |                                                       |



## CONSTRUCTION WORKS—DRAINAGE SECTION.

## Departmental Sewer Laying.

| Diameter<br>of<br>Pipes.      | Total to 31st March 116. |     |                    |     |                      |     | Remarks. |
|-------------------------------|--------------------------|-----|--------------------|-----|----------------------|-----|----------|
|                               | Purasawakam<br>Area.     |     | Royapuram<br>Area. |     | Law College<br>Area. |     |          |
|                               | Lineal feet.             | No. | Lineal feet.       | No. | Lineal feet.         | No. |          |
| 15" ...                       | 452                      | ... | ...                | ... | ...                  | ... |          |
| 12" ...                       | 702                      | ... | ...                | ... | ...                  | ... |          |
| 9" ...                        | 1,625                    | ... | 14,594             | ... | 354                  | ... |          |
| 6" ...                        | ...                      | ... | 16,428             | ... | 164                  | ... |          |
| Manholes ...                  | ...                      | 26  | ...                | 145 | ...                  | 4   |          |
| Lampholes ...                 | ...                      | ... | ...                | 8   | ...                  | ... |          |
| Flushing shafts.              | ...                      | ... | ...                | 66  | ...                  | 1   |          |
| Total ...                     | 2,779                    | 26  | 31,022             | 219 | 518                  | 5   |          |
| Value of work<br>executed ... | Rs. 33,041               |     | Rs. 82,000         |     | Rs. 1,310            |     |          |

## APPENDIX II—TABLE No. 5-D.

## NORTH TRIPPLICANE STORM WATER DRAINS.

## Departmental Works.

| —                          | Total to 31st March 1916. |              | Remarks. |
|----------------------------|---------------------------|--------------|----------|
|                            | Blacker's Road.           | Ellis Road.  |          |
|                            | Lineal feet.              | Lineal feet. |          |
| Completed drain ...        | 692                       | 335          |          |
| Value of work executed ... | Rs. 10,380                | Rs. 1,740    |          |

## SPECIAL WORKS DEPARTMENT, WATER-WORKS SECTION.

## Statement of Contract awarded in connection with the New Water-supply.

| Contract No. | Description of Works.                                                  | Amount of Estimate. | Name of Contractor. | Amount of Contract.                                 | Value of work executed up to 31st March, 1916. | Amount of Security lodged. | Date of order to Commence. | Date of Completion. | REMARKS.           |         |
|--------------|------------------------------------------------------------------------|---------------------|---------------------|-----------------------------------------------------|------------------------------------------------|----------------------------|----------------------------|---------------------|--------------------|---------|
|              |                                                                        | Rs.                 | A. P.               | Rs.                                                 | A. P.                                          | Rs.                        | A. P.                      | D. M. Y.            | D. M. Y.           |         |
|              | (Contract Nos. 1, 2a, 3a, 4, 8 and 9 completed and 3 and 8 cancelled.) | 7,28,113            | 7 0                 | A. Subramania Iyer                                  | 7,12,359                                       | 14 1                       | 5,86,968                   | 10 2                | 30,000 0 0 6 1 10  | ...     |
| W.W. No. 5   | Filter Beds, Filter Water Reservoir and Accessory Works                | 13,512              | 12 3                | M. Hashim Naidu                                     | 13,512                                         | 8 0                        | 11,588                     | 3 8                 | 500 0 0 1 6 12     | 13 9 15 |
| 6            | Laying and jointing about 2,400 ft. of 48" Steel Pipes                 | 1,71,045            | 0 0                 | Messrs. M. Hashim Naidu and A. S. Krishnaswami Iyer | 1,72,709                                       | 211                        | 1,34,331                   | 6 11                | 3,000 0 0 7 10 12  | ...     |
| 7            | Kilpaik Pumping Station and Elevated Tank Masonry Work                 | 1,23,459            | 0 0                 | M. Hashim Naidu                                     | 1,22,388                                       | 14 9                       | 1,20,742                   | 11 2                | 2,000 0 0 30 6 13  | ...     |
| 10           | Laying Main No. 1                                                      | 71,610              | 0 0                 | N. Munawami Mudaliar                                | 70,959                                         | 311                        | 60,288                     | 2 6                 | 2,000 0 0 12 6 13  | 31 3 15 |
| 11           | " " 7                                                                  | 23,000              | 0 0                 | A. S. Krishnaswami Iyer                             | 24,800                                         | 12 0                       | 23,365                     | 2 4                 | 1,000 0 0 6 10 13  | ...     |
| 12           | Compound wall for the New Water-Works, Kilpaik                         |                     |                     |                                                     |                                                |                            |                            |                     |                    |         |
|              | (Contract Nos. 1, 2, 4, 7, 8, 11, 13 and 20 completed.)                | 4,00,000            | 0 0                 | Messrs. Simpson & Co.                               | 3,90,695                                       | 0 0                        | 3,85,164                   | 11 10               | 15,000 0 0 3 11 10 | ...     |
| M.M. No. 9   | Steam Engines, Pumps and Boilers                                       | 1,91,500            | 0 0                 | The South India Industries, Ltd.                    | 1,82,201                                       | 0 0                        | 1,74,249                   | 12 6                | 10,000 0 0 19 6 13 | 7 7 15  |
| 10           | Elevated Tank                                                          | 5,72,184            | 0 0                 | Messrs. Turner Hoare & Co.                          | 5,25,110                                       | 13 9                       | 52,823                     | 0 3                 | 10,000 0 0 1 2 16  | ...     |
| 22-A         | Cast Iron Pipes and Specials                                           |                     |                     |                                                     |                                                |                            |                            |                     |                    |         |
| 23           | Venturi Meters, Waste Detection Meters, Special Castings, etc.         | 1,71,000            | 0 0                 | Messrs. Turner Hoare & Co.                          | 55,451                                         | 9 0                        | 55,796                     | 6 6                 | 100 0 0 1 12 15    | 9 3 16  |
|              | Cast-Iron Pipes                                                        |                     |                     |                                                     |                                                |                            |                            |                     |                    |         |
| P.W. No. 9   | Cast-Iron Pipe laying North Range                                      | 62,465              | 0 0                 | M. Shaik Davood Sahib.                              | 54,318                                         | 4 0                        | 54,318                     | 4 0                 | 250 0 0 4 2 14     | ...     |
| 10           | " " Centre                                                             | 34,892              | 0 0                 | N. Munawami Mudaliar                                | 30,341                                         | 0 8                        | 30,341                     | 0 8                 | 250 0 0 4 2 14     | 31 3 16 |
| 10-A         | " " " "                                                                | 3,097               | 0 0                 | Messrs. C. Munawami Mudaliar & C. Kannappa Mudaliar | 2,614                                          | 12 5                       | 2,614                      | 12 5                | 250 0 0 1 2 16     | ...     |
| 11           | " " South                                                              | 37,781              | 0 0                 | N. Munawami Mudaliar                                | 32,852                                         | 14 10                      | 32,852                     | 14 10               | 250 0 0 4 2 14     | 31 3 16 |
| 11-A         | " " " "                                                                | 23,087              | 0 0                 | Messrs. C. Munawami Mudaliar & C. Kannappa Mudaliar | 20,075                                         | 10 0                       | 20,075                     | 10 0                | 250 0 0 1 10 15    | ...     |
|              | (Contract Nos. 1, 2, 3, 4, 5, 6 and 7 completed.)                      |                     |                     |                                                     |                                                |                            |                            |                     |                    |         |
| W.W.M. No. 8 | Galvanized Iron Pipes and Fittings,                                    | 40,000              | 0 0                 | Messrs. Oakes & Co., Ltd.                           | 36,064                                         | 14 0                       | 30,236                     | 4 5                 | 100 0 0 2 10 15    | ...     |
| 9            | Sand                                                                   |                     |                     | P. Candasaami Chetty                                |                                                |                            |                            |                     | 500 0 0            | ...     |
| 9-A          | Filter Sand                                                            |                     |                     | M. Hashim Naidu                                     | 32,000                                         | 0 0                        | 8,450                      | 0 0                 | 500 0 0 9 10 15    | ...     |
| 10           | Broken Stone 1" and 1" Gauge                                           |                     |                     |                                                     |                                                |                            |                            |                     | 500 0 0            | ...     |
| 11           | Pig Lead and Yarn                                                      | 52,260              | 0 0                 | Messrs. Abdul Hoossain Jejeejee & Co.               | 52,260                                         | 0 0                        | 52,293                     | 7 6                 | 500 0 0 7 10 15    | 7 3 16  |
|              | Total                                                                  | 27,18,977           | 3 5                 |                                                     | 25,25,156                                      | 6 4                        | 18,52,520                  | 9 8                 | 71,960 0 0         |         |



## SPECIAL WORKS DEPARTMENT, DRAINAGE SECTION.

Statement of contracts awarded in connection with Special Drainage.

| Contract No. | Description of works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Amount of Estimate. | Name of Contractor. | Amount of Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Value of work executed up to 31st March 1916. | Amount of Security lodged. | Date of commencement. | Date of Completion. |     |     |       |     |     |       |      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P.               | Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A. P.                                         | Rs.                        | A. P.                 | D. M. Y.            |     |     |       |     |     |       |          |
| M.M. No. 15  | Contract Nos. 1, 2, 3, 4, 5, 6 and 7 (Contract Nos. 3, 4, 5, 6, 7, 11, 12, 13 and 23 completed).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 18           | English Stoneware pipe, specials &c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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    |
| 21           | Cast-iron manhole covers and frames.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30,000              | 0                   | Messrs Oakes & Co. 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    |
| 22-A         | Cast-iron pipes and specials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 24           | Pumping plant for Pycroft's Road, Pumping Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 24-A.        | Supply and erection of a overhead Electric Power Line for Pycroft's Road, Pumping Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 26           | Steel Sheet Piling and Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 27           | Supply of table moulded bricks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                 | ...                 | T. 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| 29           | Cast-iron wall sluices, 3 feet dia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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    |
| 30           | Steel sill catcher buckets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8,000               | 0                   | P. Kuttappa Chetty carrying on business as a contractor, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 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420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 | ...                                           | ...                        | ...                   | ...                 | ... | ... | ...   | ... |     |       |          |
| P. T. 3      | Contract Nos. 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 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824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 | ...                 | ...                 | ...                                                                   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     |
| 4            | Do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 79,549              | 0                   | M. Babayam Naidu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 69,189                                        | 15                         | 7                     | 69,189              | 15  | 7   | 500   | 0   | 2   | 2 12  | 23 12 14 |
| 21           | Construction of brick ventilating shafts 1 feet diameter and 6 inch brick sewer in Sanyasrayana Chetty Street                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,276               | 0                   | W. K. Subbaji Iyengar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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1,370               | 2   | 0   | ...   | ... | ... | 15    | 3 16     |
| D.P.W. 1     | Supply of materials Contract Nos. 1 to 3 completed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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    |
|              | Construction of Harbour overflow sewer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 19,115              | 10                  | O. Sudarasan Maistry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 17,334              | 14  | 0   | 200   | 0   | 9   | 3 14  | 5 5 15   |
|              | (a) Parasaswathi Area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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    |
|              | Supply of bricks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ...                 | ...                 | T. Swaminatha Pillay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10,800                                        | 0                          | 0                     | 6,465               | 0   | 0   | 200   | 0   | 1   | 12 15 | ...      |
|              | Vellamarudu and other timber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ...                 | ...                 | Messrs Pary & Co. ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4,273                                         | 8                          | 6                     | 3,776               | 8   | 10  | 250   | 0   | ... | 29    | 3 15     |
| P.M. 1       | Construction of 30" and 27" diameter brick sewers in Vedaisayagar Road.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,06,324            | 6                   | O. Sudarasan Maistry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 76,633                                        | 2                          | 0                     | 12,754              | 4   | 7   | 1,000 | 0   | 19  | 10 15 | ...      |
| 2            | Construction of sluices, latrines, compound wall, &c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16,220              | 0                   | Messrs Purneshwaram Naidu and Karpasami Pillay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11,675                                        | 3                          | 8                     | 5,844               | 9   | 2   | 500   | 0   | 14  | 9 15  | ...      |
| P.W          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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    |

\* Contract let for a part of the work only.

† Original design altered.

## SPECIAL WORKS DEPARTMENT.

Statement showing the Private work executed during 1915-16.

| No. | Description of Works.                                              | Amount<br>of<br>Revised<br>Estimate. | Expendi-<br>ture<br>up to 31st<br>March<br>1916. | Remarks. |
|-----|--------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|----------|
|     |                                                                    | Rs.                                  | Rs.                                              |          |
| 1   | Construction of Harbour over-flow Sewer in<br>North Beach Road ... | 98,293                               | 98,293                                           |          |
|     | Total ...                                                          | 98,293                               | 98,293                                           |          |



## SPECIAL WORKS DEPARTMENT.

Statement showing the value of Pumping Station buildings and plant, as given in the Administration Report for 1914-15, compared with the estimated value on the 31st March 1916.

|                                                                                                               |                            |     |     | Value in Books<br>on<br>31st March '15. | Estimated value<br>on<br>31st March '16. |
|---------------------------------------------------------------------------------------------------------------|----------------------------|-----|-----|-----------------------------------------|------------------------------------------|
|                                                                                                               |                            |     |     | Rs.                                     | Rs.                                      |
| Royapuram                                                                                                     | { Buildings                | ... | ... | 10,734                                  | 10,412                                   |
|                                                                                                               | { Machinery                | ... | ... | 1,08,248                                | 95,980                                   |
| DeMellow's Road                                                                                               | { Buildings                | ... | ... | 3,695                                   | 3,510                                    |
|                                                                                                               | { Machinery                | ... | ... | 14,960                                  | 13,853                                   |
| Langs Garden                                                                                                  | { Buildings                | ... | ... | 7,040                                   | 6,829                                    |
|                                                                                                               | { Machinery                | ... | ... | 11,919                                  | 11,146                                   |
| Napier Park                                                                                                   | { Buildings                | ... | ... | 11,082                                  | 10,750                                   |
|                                                                                                               | { Machinery                | ... | ... | 19,426                                  | 17,921                                   |
| Ice House Road                                                                                                | { Buildings                | ... | ... | 8,720                                   | 8,458                                    |
|                                                                                                               | { Machinery                | ... | ... | 13,552                                  | 12,714                                   |
| Mylapore                                                                                                      | { Buildings                | ... | ... | 3,673                                   | 3,489                                    |
|                                                                                                               | { Machinery                | ... | ... | 10,562                                  | 9,908                                    |
| Law College                                                                                                   | { Buildings                | ... | ... | 16,436                                  | 15,943                                   |
|                                                                                                               | { Machinery                | ... | ... | 76,535                                  | 67,837                                   |
| Tondiarpet                                                                                                    | { A Buildings              | ... | ... | 12,600                                  | 12,222                                   |
|                                                                                                               | { A Machinery              | ... | ... | 21,221                                  | 19,127                                   |
|                                                                                                               | { B Buildings              | ... | ... | 14,443                                  | 14,010                                   |
|                                                                                                               | { B Machinery              | ... | ... | 33,798                                  | 30,394                                   |
|                                                                                                               | { C Buildings              | ... | ... | 12,173                                  | 11,808                                   |
|                                                                                                               | { C Machinery              | ... | ... | 21,300                                  | 19,197                                   |
| Night-soil Depot                                                                                              | { Buildings                | ... | ... | 5,138                                   | 4,984                                    |
|                                                                                                               | { Machinery                | ... | ... | 2,556                                   | 2,250                                    |
| Kilpauk                                                                                                       | { Buildings                | ... | ... | 1,25,520                                | 1,29,514                                 |
|                                                                                                               | { Machinery                | ... | ... | 3,90,560                                | 3,44,668                                 |
|                                                                                                               | { Elevated Tank            | ... | ... | 1,74,250                                | 1,65,537                                 |
|                                                                                                               | { „ Masonry and Foundation | ... | ... | 88,100                                  | 85,457                                   |
| Amount to be written off with the sanction of the Standing Committee for loss, wear and tear and depreciation |                            |     |     | ...                                     | 98,323                                   |
| Total                                                                                                         |                            |     |     | 12,18,241                               | 12,26,241                                |
| Deduct value of Buildings added during the year                                                               |                            |     |     | ...                                     | 8,000                                    |
|                                                                                                               |                            |     |     |                                         | 12,18,241                                |

## SPECIAL WORKS DEPARTMENT.

Value of tools, plant and materials on 31st March 1915 (as given in the Administration Report for 1914-15) compared with the estimated value on 31st March 1916.

|                                                                                                                   | 31st March<br>1915. | 31st March<br>1916. |
|-------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
|                                                                                                                   | Rs.                 | Rs.                 |
| Tools and plant ... ..                                                                                            | 66,545              | 70,001              |
| Materials ... ..                                                                                                  | 3,99,229            | 5,06,518            |
| Amount to be written off with the sanction of the Standing Committee for loss, wear and tear and depreciation ... | ...                 | 16,318              |
| Total ...                                                                                                         | 4,65,774            | 5,92,837            |
| Deduct value of Stoneware Pipes, etc., added during the year ...                                                  | ...                 | 1,27,063            |
|                                                                                                                   |                     | 4,65,774            |



## Maintenance of Sewage Pumping Stations.

## COST OF PUMPING AT SEWAGE PUMPING STATIONS.

From April 1915 to March 1916.

| Name of Pumping Stations.                  | Koyapuram. | Law College. | Langs Garden. | Napier Park. | Ice House Road. | Mylapore. | DEBBELLOWS ROAD. |               |                 | TONGHARTY.           |                      |                      | SEWAGE FARM. |               | Kilpask. |
|--------------------------------------------|------------|--------------|---------------|--------------|-----------------|-----------|------------------|---------------|-----------------|----------------------|----------------------|----------------------|--------------|---------------|----------|
|                                            |            |              |               |              |                 |           | Oil Engine.      | Steam Engine. | Electric Motor. | "A" Pumping Station. | "B" Pumping Station. | "C" Pumping Station. | Producer.    | All purposes. |          |
| TYPE OF MACHINERY.                         |            |              |               |              |                 |           |                  |               |                 |                      |                      |                      |              |               |          |
| Gallons pumped in millions                 | 1022.4     | 232.8        | 119.3         | 296.3        | 201.1           | 94.8      | 248.7            | 317.3         | 23.5            | 89.8                 | 209.4                | 45.6                 | 820.7        | 820.7         | 4441.3   |
|                                            | ...        | ...          | ...           | ...          | ...             | ...       | ...              | ...           | ...             | ...                  | ...                  | ...                  | ...          | ...           | ...      |
|                                            | 148.8      | 64.6         | 33.9          | 71.8         | 51.4            | 25.0      | 45.6             | 64.0          | 5.7             | 5.8                  | 28.8                 | 4.1                  | 76.7         | 76.7          | 1589.9   |
|                                            | ...        | ...          | ...           | ...          | ...             | ...       | ...              | ...           | ...             | ...                  | ...                  | ...                  | ...          | ...           | ...      |
|                                            | 1225.48    | 618.22       | 231.26        | 631.56       | 422.05          | 222.14    | 646.83           | 724.83        | 806.64          | 564.29               | 1252.34              | 393.23               | 6914.36      | 6914.36       | 10421.99 |
| Gallons pumped per minute average per year | ...        | ...          | ...           | ...          | ...             | ...       | ...              | ...           | ...             | ...                  | ...                  | ...                  | ...          | ...           | ...      |
| Average Head in feet                       | 27.31      | 49.48        | 55.20         | 47.32        | 51.17           | 55.36     | 38.90            | 42.64         | 47.63           | 22.71                | 22.27                | 18.03                | 17.92        | 17.92         | 65.45    |
| Average Pump Horse power (P. H. P.)        | 16.05      | 7.52         | 4.19          | 9.04         | 6.58            | 3.74      | 7.58             | 9.37          | 11.64           | 3.89                 | 9.76                 | 2.14                 | 26.68        | 26.68         | 206.74   |
| Indicated Horse power (I. H. P.)           | 35.78      | 16.29        | 21.80         | 30.29        | 49.39           | 31.81     | 48.03            | ...           | ...             | 9.35                 | 29.95                | 11.33                | ...          | ...           | 291.18   |
| P. H. P. at time of taking                 | 23.21      | 7.35         | 11.35         | 15.91        | 10.19           | 7.59      | 10.95            | ...           | ...             | 6.80                 | 14.15                | 7.03                 | ...          | ...           | 230.31   |
| P. H. P. local efficiency                  | 0.43       | 0.46         | 0.54          | 0.63         | 0.61            | 0.24      | 0.25             | ...           | ...             | 0.65                 | 0.17                 | 0.63                 | ...          | ...           | 0.79     |

## COST PER PUMP HORSE POWER PER HOUR.

|                                                                                                                                           | Amas.    | Amas.    | Amas.    | Amas.    | Amas.    | Amas.    | Amas.    | Amas.    | Amas.   | Amas.   | Amas.   | Amas.   | Amas.   | Amas.   | Amas.    |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|----------|
| Coal at Rs. 14-7-0 per ton from May and for April, at Rs. 12-0-0 per ton.                                                                 | 2.00     | 2.71     | 0.75     | \$4.0    | 0.56     | ...      | ...      | 3.37     | ...     | ...     | ...     | ...     | 0.30    | 0.56    | 0.42     |
| Liquid fuel, at Amas 2-75, per gallon and Kerosene oil, at Amas 7-5 per gallon                                                            | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...     | ...     | ...     | ...     | ...     | ...     | ...      |
| Electric current, at Amas 1-3 per unit                                                                                                    | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...     | ...     | ...     | ...     | ...     | ...     | ...      |
| Stores, oil, waste, etc.                                                                                                                  | 0.08     | 0.09     | 0.13     | 0.08     | 0.13     | 0.26     | 0.11     | 0.09     | 0.04    | 1.41    | 0.13    | 1.87    | 0.03    | 0.03    | 0.03     |
| Wages and overtime of Driving Staff                                                                                                       | 0.54     | 1.12     | 1.99     | 0.89     | 0.98     | 1.40     | 0.81     | 0.61     | 0.48    | 8.95    | 2.29    | 19.41   | 0.87    | 0.46    | 0.01     |
| Wages and overtime of Repairing Staff and cost of materials                                                                               | 0.78     | 1.46     | 1.20     | 0.78     | 1.06     | 1.40     | 1.10     | 0.46     | 0.29    | 3.62    | 0.27    | 3.89    | ...     | 0.31    | 0.09     |
| Supervision and Office Staff including Office Stationery, License fee, Electric Lights, Sewer Charges, Telephone fees and Stationery, &c. | 0.26     | 0.40     | 0.46     | 0.26     | 0.35     | 0.47     | 0.43     | 0.34     | 0.14    | 1.45    | 0.46    | 2.18    | 0.08    | 0.10    | 0.03     |
| Total cost per Pump Horse power.                                                                                                          | 8.06     | 6.78     | 9.53     | 6.41     | 7.88     | 6.91     | 7.09     | 4.97     | 7.31    | 16.24   | 4.48    | 22.07   | 1.00    | 1.49    | 0.83     |
| Total cost per Pump Horse power for the previous year (from April 1914 to March 1915)                                                     | 4.29     | 2.12     | 13.86    | 6.28     | 8.98     | 10.23    | 5.01     | ...      | ...     | 15.83   | 9.82    | 19.83   | ...     | ...     | ...      |
| Total cost per year in Rs.                                                                                                                | 30547.81 | 22058.22 | 10229.50 | 25032.40 | 26270.16 | 11829.78 | 10463.77 | 11629.83 | 2198.30 | 4272.34 | 8334.04 | 4316.82 | 1924.50 | 2154.70 | 83517.72 |
| Total cost for previous year in Rs. (from April 1914 to March 1915)                                                                       | 24353.93 | 14466.06 | 10138.90 | 21200.46 | 23333.32 | 10946.15 | 17291.48 | ...      | ...     | 3231.92 | 3122.80 | 3039.98 | ...     | ...     | ...      |

Total cost for the year for the Sewage Pumping Stations

Total cost for the previous year for the Sewage Pumping Stations

Total cost for 11 months for the Water-Works Pumping Stations

Note.—64 per cent. more sewage has been pumped this year, and the P. H. Horse have been exceeded by 5 per cent; but the total cost of pumping has been exceeded by only 28 per cent over that of last year.

TABLE NO. 11.  
SPECIAL WORKS DEPARTMENT.  
Cost of Design and Supervision.  
Waterworks Section.

| Year.    | Design.    |               | Construction. |            |              | Value of work designed. | Percentage of Designing Establishment on value of work designed. | Value of work executed. | Percentage of supervision on value of work executed. |
|----------|------------|---------------|---------------|------------|--------------|-------------------------|------------------------------------------------------------------|-------------------------|------------------------------------------------------|
|          | Engineers. | Subordinates. | Total.        | Engineers. | Subordinate. | Total.                  |                                                                  |                         |                                                      |
|          | Rs.        | Rs.           | Rs.           | Rs.        | Rs.          | Rs.                     |                                                                  | Rs.                     | Rs.                                                  |
| 1908-09  | 21,131     | 5,876         | 27,007        | 1,800      | 700          | 2,500                   |                                                                  | 64,602                  | 3.87                                                 |
| 1909-10  | 17,640     | 9,664         | 27,304        | 4,600      | 2,300        | 6,900                   |                                                                  | 1,72,574                | 3.99                                                 |
| 1910-11  | 12,108     | 9,406         | 21,514        | 12,108     | 9,407        | 21,515                  |                                                                  | 3,04,188                | 7.07                                                 |
| 1911-12  | 12,624     | 10,441        | 23,065        | 12,625     | 10,441       | 23,066                  |                                                                  | 4,35,207                | 5.30                                                 |
| 1912-13  | 11,983     | 9,853         | 21,836        | 11,984     | 9,853        | 21,837                  |                                                                  | 6,19,918                | 3.52                                                 |
| 1913-14  | 9,955      | 15,121        | 25,076        | 9,955      | 15,122       | 25,077                  |                                                                  | 16,78,214               | 1.49                                                 |
| 1914-15  | 9,900      | 18,929        | 28,829        | 9,900      | 18,930       | 28,830                  |                                                                  | 5,78,821                | 4.98                                                 |
| 1915-16  | 9,980      | 10,543        | 20,523        | 9,980      | 10,542       | 20,522                  |                                                                  | 4,23,431                | 4.85                                                 |
| Total... | 1,05,321   | 89,833        | 1,95,154      | 72,952     | 77,295       | 1,50,247                | 2.86                                                             | 42,76,955               | 3.51                                                 |

## DRAINAGE SECTION.

|         |          |          |          |          |        |          |      |           |       |
|---------|----------|----------|----------|----------|--------|----------|------|-----------|-------|
|         | Rs.      | Rs.      | Rs.      | Rs.      | Rs.    | Rs.      |      | Rs.       | Rs.   |
| 1908-09 | 17,801   | 7,418    | 25,219   | 1,600    | 800    | 2,400    |      | 39,621    | 6.06  |
| 1909-10 | 19,500   | 10,278   | 29,778   | 2,400    | 1,200  | 3,600    |      | 60,666    | 5.93  |
| 1910-11 | 12,777   | 8,859    | 21,636   | 12,777   | 8,859  | 21,636   |      | 3,81,714  | 5.67  |
| 1911-12 | 18,015   | 13,057   | 31,072   | 18,015   | 13,057 | 31,072   |      | 4,88,024  | 6.37  |
| 1912-13 | 15,437   | 15,716   | 31,153   | 15,437   | 15,716 | 31,153   |      | 4,07,632  | 7.64  |
| 1913-14 | 17,399   | 16,217   | 33,616   | 17,400   | 16,217 | 33,617   |      | 2,52,903  | 13.29 |
| 1914-15 | 14,820   | 21,464   | 36,284   | 14,820   | 21,463 | 36,283   |      | 2,31,055  | 15.71 |
| 1915-16 | 18,250   | 21,832   | 39,582   | 18,250   | 21,331 | 39,581   |      | 5,87,011  | 6.74  |
| Total   | 1,33,999 | 1,14,341 | 2,48,340 | 1,00,699 | 98,643 | 1,99,342 | 1.50 | 24,48,626 | 8.14  |



TABLE No. 12.

Table showing sizes and lengths of water pipes laid, during the year 1915-16.

| Divisions. | Number of Foun-<br>tains erected. | 4"  | 3"  | 2½" | 2"  | 1½" | 1"   | ¾"  | REMARKS.                  |
|------------|-----------------------------------|-----|-----|-----|-----|-----|------|-----|---------------------------|
|            |                                   | ft. | ft. | ft. | ft. | ft. | ft.  | ft. |                           |
| 1 to 3     | 11                                | ... | 297 | ... | ... | ... | 753  | 219 |                           |
| 4 & 5      | ...                               | ... | ... | ... | ... | ... | ...  | ... |                           |
| 6 & 7      | 4                                 | ... | ... | ... | ... | ... | 175  | 130 |                           |
| 8 & 9      | 6                                 | ... | ... | ... | ... | ... | ...  | 243 |                           |
| 10 & 11    | 4                                 | ... | ... | ... | 324 | ... | ...  | ... |                           |
| 12 & 13    | ...                               | 156 | ... | ... | ... | ... | ...  | 30  |                           |
| 14 & 15-B  | 2                                 | ... | ... | ... | ... | ... | 370  | 150 |                           |
| 16 & 17    | ...                               | ... | ... | ... | ... | ... | ...  | ... |                           |
| 18 & 15-A  | ...                               | ... | ... | ... | ... | ... | ...  | ... |                           |
| 19 & 20    | 21                                | ... | ... | 776 | 400 | 600 | 250  | ... |                           |
|            | 48                                | 156 | 297 | 776 | 724 | 600 | 1548 | 772 | 4,873 feet or 1,624½ yds. |

TABLE No. 13.

*Reforming roads during 1915-16.*

| Thickness. | BLUE GRANITE. |        |      |      | VELACHERI GRANITE. |        |      |      | LATERITE. |        |      |      | REMARKS.   |
|------------|---------------|--------|------|------|--------------------|--------|------|------|-----------|--------|------|------|------------|
|            | Squares.      | Miles. | Fur. | Yds. | Squares.           | Miles. | Fur. | Yds. | Squares.  | Miles. | Fur. | Yds. |            |
| 9" ...     | ...           | ...    | ...  | ...  | ...                | ...    | ...  | ...  | 276-50    | 0      | 3    | 142  |            |
| 6" ...     | 1,279-50      | 0      | 2    | 35   | 143-50             | 0      | 0    | 159  | 2,970-75  | 2      | 5    | 34   |            |
| 5" ...     | ...           | ...    | ...  | ...  | ...                | ...    | ...  | ...  | 210-00    | 0      | 1    | 80   |            |
| 4" ...     | 13,065-50     | 8      | 2    | 119  | 7,701-50           | 7      | 2    | 18   | 11,674-25 | 11     | 0    | 2    |            |
| 3" ...     | 18,888-37     | 10     | 6    | 184  | 1,895-00           | 2      | 1    | 39   | 1,084-00  | 0      | 7    | 171  |            |
| 2" ...     | 2,038-00      | 0      | 7    | 53   | ...                | ...    | ...  | ...  | 46-00     | 0      | 0    | 133  |            |
|            |               |        |      |      |                    |        |      |      |           |        |      |      | M. F. Yds. |
| Total ...  | 35,271-37     | 20     | 2    | 171  | 9,740-00           | 9      | 3    | 216  | 16,261-51 | 15     | 2    | 122  | 45 1 69    |

TABLE No. 14.

*Roads reggraded with gravel during 1915-16.*

| Thickness.    | GRAVEL.  |          |      |       | REMARKS. |
|---------------|----------|----------|------|-------|----------|
|               | Squares. | Miles.   | Fur. | Yds.  |          |
| Regrading ... | ...      | 1,353-00 | 1    | 0 103 |          |

TABLE No. 14 (a).

*Tarring roads during 1915-16.*

| No. of Casks and Barrels.                           | TARRING. |        |      |      | REMARKS. |
|-----------------------------------------------------|----------|--------|------|------|----------|
|                                                     | Squares. | Miles. | Fur. | Yds. |          |
| 164 casks of petroleum pitch and 491 barrels of tar | 6,456-25 | 3      | 0    | 152  |          |



TABLE 15.—List of roads and streets reformed with blue granite during 1915-16.

| No. | Division. | Names of roads.                                                   | From                             | To.                            | Length.        |
|-----|-----------|-------------------------------------------------------------------|----------------------------------|--------------------------------|----------------|
| 1   | 3rd       | Cochrane Basin Road                                               | Basin Bridge Road                | Railway Crossing               | Feet.<br>2,640 |
| 2   | 3rd       | Do.                                                               | Railway Crossing                 | Kalhiwaukam High Road          | 1,920          |
| 3   | 3rd       | Thiruvattore High Road                                            | Mint Street                      | Railway Crossing               | 1,300          |
| 4   | 4th       | North Beach Road                                                  | Muker Nallamuthu Chetty Street   | Narayanappa Naick Street       | 1,665          |
| 5   | 4th       | Do.                                                               | Narayanappa Naick Street         | Gopal Chetty Lane              | 750            |
| 6   | 4th       | Do.                                                               | Gopal Chetty Lane                | Ebramjee Saib Street           | 1,100          |
| 7   | 4th       | Corner at the junction of General Hospital Road and Benfield Road | .....                            | .....                          | 105            |
| 8   | 4th       | North Beach Road                                                  | Parry's Corner                   | Muker Nallamuthu Chetty Street | 1,200          |
| 9   | 4th       | Moor Street                                                       | China Bazaar Road                | Errabalu Chetty Street         | 645            |
| 10  | 4th       | Band Practice Road                                                | Wallajah Bridge                  | Cubids Bow Garden              | 2,175          |
| 11  | 4th       | Jehangir Road                                                     | Muker Nallamuthu Chetty Street   | Arbutnot Lane                  | 1,100          |
| 12  | 4th       | Band Practice Road                                                | Band Beach Road                  | To a length of 500 feet        | 500            |
| 13  | 5th       | Errabalu Chetty Street                                            | In front of Old Municipal Office | .....                          | 130            |
| 14  | 5th       | Muker Nallamuthu Chetty Street                                    | Thambu Chetty Street             | Popham's Broadway              | 975            |
| 15  | 6th       | Anra Pillai Street                                                | Auchirappan Street               | Do.                            | 832            |
| 16  | 6th       | Audiappa Naick Street                                             | Varadamuthiappan Street          | Aucharappan Street             | 300            |
| 17  | 8th       | China Bazaar Road                                                 | Do.                              | Mint Street                    | 1,125          |
| 18  | 8th       | Do.                                                               | Mint Street                      | Wall Tax Road                  | 1,475          |
| 19  | 8th       | Varadamuthiappan Street                                           | China Bazaar Road                | Audiappa Naick Street          | 1,450          |
| 20  | 8th       | Do.                                                               | Audiappa Naick Street            | Thathamuthiappan Street        | 924            |
| 21  | 8th       | Ramanan Street                                                    | Wall Tax Road                    | Audiappa Naick Street          | 850            |

TABLE 15.—List of roads and streets reformed with blue granite during 1915-16— (continued.)

| No. | Division. | Names of roads.              | From.                            | To.                                     | Length.<br>Feet. |
|-----|-----------|------------------------------|----------------------------------|-----------------------------------------|------------------|
| 22  | 8th       | Audiappa Naick Street        | Basin Street                     | Mint Street                             | 700              |
| 23  | 8th       | Do.                          | Mint Street                      | Govindappa Naick Street                 | 820              |
| 24  | 9th       | Wall Tax Road                | General Hospital Road            | Rasappa Chetty Street                   | 1,700            |
| 25  | 10th      | Elephant Gate Road           | Sydenham's Road                  | Railway Crossing                        | 1,425            |
| 26  | 10th      | Road leading to Incinerator  | Basin Road                       | Incinerator                             | 750              |
| 27  | 10th      | Erukenchery Road             | Basin Bridge                     | Muthu Mudaly Street                     | 3,000            |
| 28  | 10th      | Do.                          | Muthu Mudaly Street              | Audiseshiah's Bungalow                  | 3,000            |
| 29  | 10th      | Do.                          | Audiseshiah's Bungalow           | New Toll Gate                           | 3,000            |
| 30  | 10th      | Basin Road                   | Demellow's Road                  | Basin Bridge                            | 3,000            |
| 31  | 10th      | Road over Basin Bridge       | ...                              | ...                                     | 3,200            |
| 32  | 10th      | Cooks Road                   | Strahan's Road                   | Perambur High Road                      | 2,600            |
| 33  | 10th      | Stephen's Road               | Gantz Road                       | Do.                                     | 2,900            |
| 34  | 11th      | Avadanam Paupier Road        | Perambur Barracks Road           | Choolai Bazaar Road                     | 2,400            |
| 35  | 12th      | Sydenham's Road              | Elephant Gate Road               | Rottigadango Thiruvengada Mudali Street | 2,000            |
| 36  | 12th      | Hunter's Road                | Choolai Bazaar Road              | The gate of S. P. G. High School        | 1,200            |
| 37  | 12th      | Do.                          | The gate of S. P. G. High School | Purasawakam High Road                   | 1,400            |
| 38  | 12th      | Poonamallee High Road        | Flowers Road                     | Police Commissioner's Office Road       | 1,550            |
| 39  | 12th      | Do                           | Rundalls Road                    | Naval Hospital Road                     | 1,400            |
| 40  | 12th      | Do                           | Naval Hospital Road              | Sydenham's Road                         | 1,410            |
| 41  | 12th      | Pathala Ponniamman Koil Road | Flowers Road                     | Gangadara Iswarer Koil Road             | 2,000            |
| 42  | 13th      | Lang's Garden Road           | Harris Bridge                    | St. Andrew's Bridge                     | 3,200            |



TABLE 15.--List of roads and streets reformed with blue granite during 1915-16--(Continued.)

| No. | Division. | Names of roads.                      | From. | To. | Length,<br>Feet. |
|-----|-----------|--------------------------------------|-------|-----|------------------|
| 43  | 13th      | West River-side Road                 | ...   | ... | 1,350            |
| 44  | 14th      | Brick Kiln Road                      | ...   | ... | 1,950            |
| 45  | 14th      | Poonamallee High Road                | ...   | ... | 3,000            |
| 46  | 14th      | Barnaby's Road                       | ...   | ... | 2,550            |
| 47  | 14th      | A road at the junction of Ormes Road | ...   | ... | 200              |
| 48  | 14th      | Oteri Rubbish Depot Road             | ...   | ... | 350              |
| 49  | 14th      | Miller's Road                        | ...   | ... | 1,600            |
| 50  | 14th      | Poonamallee High Road                | ...   | ... | 2,160            |
| 51  | 14th      | Do.                                  | ...   | ... | 2,000            |
| 52  | 16th      | Arunachella Naick Road               | ...   | ... | 550              |
| 53  | 16th      | Coom Canal Road                      | ...   | ... | 2,550            |
| 54  | 17th      | Mount Road                           | ...   | ... | 1,880            |
| 55  | 15th-A    | Do.                                  | ...   | ... | 1,000            |
| 56  | 15th-A    | Do. West                             | ...   | ... | 2,500            |
| 57  | 18th      | Pycrofts Road                        | ...   | ... | 2,000            |
| 58  | 15th-A    | Mount Road                           | ...   | ... | 2,650            |
| 59  | 18th      | South Beach Road                     | ...   | ... | 2,800            |
| 60  | 19th      | Laz Church Road                      | ...   | ... | 1,157            |
| 61  | 19th      | Do.                                  | ...   | ... | 2,693            |
| 62  | 19th      | Edward Elliotts Road                 | ...   | ... | 1,817            |
| 63  | 19th      | Do                                   | ...   | ... | 2,425            |

TABLE 15.—List of roads and streets reformed with blue granite during 1915-16—(Concluded.)

| No. | Division. | Names of roads.                      | From. | To.                     | Length.<br>Feet. |
|-----|-----------|--------------------------------------|-------|-------------------------|------------------|
| 64  | 19th      | Barbers Bridge Road                  | ...   | Erusappa Gramany Street | 1,860            |
| 65  | 19th      | Road in Pail Depot in Ice House Road | ...   | .....                   | 400              |
| 66  | 20th      | Brodies Road                         | ...   | North Mada Street       | 736              |
|     |           |                                      |       | Total                   | 1,07,434         |



TABLE 15.—List of roads and streets reformed with Velacheri granite during 1915-16.

| No. | Division | Names of roads.                  | From                                  | To                                  | Length.<br>Feet. |
|-----|----------|----------------------------------|---------------------------------------|-------------------------------------|------------------|
| 1   | 4th      | Sultan Street                    | Angappa Naick Street                  | Narayanaserang Garden Street        | 450              |
| 2   | 4th      | Post Office Street               | Thambu Chetty Street                  | Jebangir Street                     | 645              |
| 3   | 5th      | Sengalanir Pillaiyar Coil Street | Salai Vinayagar Coil Street           | Mannady Street                      | 1,755            |
| 4   | 5th      | Nainiappan Street                | Gells Street                          | Do                                  | 1,100            |
| 5   | 5th      | Gells Street                     | Ramaswami Street                      | Popham's Broadway                   | 760              |
| 6   | 5th      | Katchaleswarar Agraharam South   | Armenian Street                       | Katchaleswarar Agraharam West       | 450              |
| 7   | 5th      | Katchaleswarar Agraharam North   | Do                                    | Do                                  | 430              |
| 8   | 5th      | Katchaleswarar Agraharam West    | Katchaleswarar Agraharam North Street | Katchaleswarar Agraharam South      | 200              |
| 9   | 5th      | Post Office Street               | Thambu Chetty Street                  | Sambu Doss Street                   | 720              |
| 10  | 6th      | Chinnathambi Street              | Anna Pillay Street                    | A distance of 768 ft. towards North | 768              |
| 11  | 6th      | Do                               | Thathamuthiappan Street               | A distance of 172 ft. towards South | 172              |
| 12  | 6th      | Kandappa Chetty Street           | Anna Pillay Street                    | Thathamuthiappan Street             | 901              |
| 13  | 7th      | Peddu Naicken Street             | Padavattamman Coil Street             | Mint Street                         | 1,374            |
| 14  | 7th      | 1st Narayanan Street             | St. Xavier Street                     | Mangammah Street                    | 420              |
| 15  | 8th      | Tirupalli Street                 | Wall Tax Road                         | Mullah Sahib Street                 | 1,430            |
| 16  | 9th      | Lukumdoss Street                 | Mint Street                           | Nainiappa Naick Street              | 233              |
| 17  | 12th     | Karpoora Mudaly Street           | Sydenham's Road                       | Erusappa Mudali Street              | 675              |
| 18  | 12th     | Varasidhi Vinayagar Coil Street  | Poonamallee High Road                 | Sydenham's Road                     | 800              |
| 19  | 12th     | Thoppai Pillay Street            | Lalacutty Street                      | Patnol Sadar Singh Street           | 400              |
| 20  | 12th     | Shaickali Subadar Street         | Karpoora Mudaly Street                | Thoppai Pillay Street               | 200              |
| 21  | 12th     | Covelong Muthu Gramany Street    | Do                                    | The End                             | 300              |

TABLE 15.—List of roads and streets reformed with Velacheri granite during 1915-16—(Continued).

| No. | Division. | Names of roads.                                         | From                       | To                              | Length.<br>Feet. |
|-----|-----------|---------------------------------------------------------|----------------------------|---------------------------------|------------------|
| 22  | 12th      | Rama Pillay Street                                      | ...                        | ...                             | ...              |
| 23  | 12th      | Kumarappa Chetty Street                                 | Sydenham's Road            | Kumarappa Chetty Street         | 300              |
| 24  | 12th      | Kandappa Mudaly Street                                  | Vepery High Road           | The End                         | 400              |
| 25  | 12th      | Arunachalla Pillay Lane                                 | Sydenham's Road            | Do                              | 200              |
| 26  | 12th      | Elavaram Veeraswami Street                              | Do                         | Do                              | 180              |
| 27  | 12th      | Sandusa Street                                          | Do                         | Varasidhi Vinayager Coll Street | 150              |
| 28  | 12th      | Patnol Sadar Singh Street                               | Elavaram Veeraswami Street | The End                         | 200              |
| 29  | 12th      | Swaminatha Gramany Street                               | Karpooza Mudaly Street     | Thoppai Pillay Street           | 240              |
| 30  | 12th      | Muthu Gramany Street                                    | Sydenham's Road            | The End                         | 180              |
| 31  | 12th      | The Lane south of Latrine in Naval Hospital Paracherry  | Do                         | Covelong Muthu Gramany Street   | 345              |
| 32  | 12th      | Sringers Street                                         | Naval Hospital Road        | .....                           | 350              |
| 33  | 12th      | The Road leading to Water Works Stores in People's Park | .....                      | Barracks Street                 | 500              |
| 34  | 14th      | Gummalammen Coll Street                                 | Taylor's Road              | .....                           | 1,160            |
| 35  | 14th      | Thiruveethiammen Coll Street                            | Do                         | The End                         | 800              |
| 36  | 14th      | Muthusolai Street                                       | Do                         | Do                              | 625              |
| 37  | 14th      | Alagappa Mudali Lane                                    | Purasawakam High Road      | Do                              | 400              |
| 38  | 15th      | New Street                                              | Village Road               | Do                              | 220              |
| 39  | 15th      | Kodambakam High Road                                    | Toll gate                  | Limit                           | 230              |
| 40  | 15th      | Tank Bund Road                                          | Rama Naicken Street        | Kodambakam High Road            | 1,800            |
| 41  | 16th      | Singaana Chetty Street                                  | Guruvappa Chetty Street    | A distance of 478 feet          | 1,900            |
|     |           |                                                         |                            |                                 | 478              |



TABLE 15.—List of roads and streets reformed with Velacheri granite during 1915-16—(Continued).

| No. | Division. | Names of roads.                    | From                        | To                            | Length,<br>Feet. |
|-----|-----------|------------------------------------|-----------------------------|-------------------------------|------------------|
| 42  | 16th      | Swami Naick Road                   | Cooum Road                  | Arunachella Naick Road        | 1,160            |
| 43  | 16th      | Kalavi Chetty Street               | Iyah Mudali Street          | Guruvappa Chetty Street       | 1,600            |
| 44  | 17th      | Appavu Gramany Street              | Bangaru Naick Street        | Tripleane High Road           | 900              |
| 45  | 17th      | Office Vencatachella Mudaly Street | Thiruvateeswarenpetta Road  | Parthasarathy Naidu Street    | 950              |
| 46  | 17th      | Chinnathamby Naidu Street          | Bangaru Naick Street        | Model School                  | 640              |
| 47  | 15th-A    | Wesley Hostel Road                 | Whites Road                 | The Gate                      | 350              |
| 48  | 18th      | Arimuthu Asari Street              | Sunkuar Street              | Arimuthu Asari Maistry Street | 400              |
| 49  | 18th      | Arimuthu Asari Maistry Street      | Venkatarungam Pillay Street | Arimuthu Asari Street         | 250              |
| 50  | 18th      | Surappa Mudali Street              | Devaraja Mudaly Street      | Agathimathan Street           | 830              |
| 51  | 18th      | Weavers Street                     | Thambu Naick Street         | Mallan Ponnappa Mudaly Street | 375              |
| 52  | 18th      | Shaik Davood Street                | Ice House Road              | Do                            | 800              |
| 53  | 18th      | Gazette Begum Street               | Pallappen Street            | Ice House Road                | 540              |
| 54  | 18th      | Kareem Subadar Street              | Ice House Road              | Pallappen Street              | 450              |
| 55  | 18th      | Venkatarungam Pillay Street        | Pycrofts Road               | Sunkuar Street                | 1,400            |
| 56  | 18th      | Perumal Mudali Street              | Taliari Street              | Temple                        | 880              |
| 57  | 18th      | Taliari Street                     | Pycrofts Road               | Perumal Mudali Street         | 400              |
| 58  | 18th      | Hajee Shaik Hussain Street         | Ice House Road              | Hajee Shaik Hussain Lane      | 440              |
| 59  | 19th      | Madavaperumal Pagoda Street        | Mylapore Bazaar Road        | Madavaperumal Pagoda Lane     | 595              |
| 60  | 19th      | Eldhams Road                       | Mount Road                  | Gas Light No. 12              | 1,544            |
| 61  | 19th      | Do                                 | Gas Light No. 12            | Mowbrays Road                 | 1,680            |
| 62  | 19th      | Kasim Sahib Street                 | Royapetta Bazaar Road       | Nallanna Mudali Street        | 390              |

TABLE 15.—List of roads and streets reformed with Velacheri granite during 1915-16—(Concluded).

| No. | Division. | Names of roads.                          | From | To                                 | Length,<br>Feet.   |
|-----|-----------|------------------------------------------|------|------------------------------------|--------------------|
| 63  | 19th      | Thommalayappen Street                    | ...  | Its Western End                    | 474                |
| 64  | 19th      | Ammayappa Mudali Street                  | ...  | Nallanna Mudali Street             | 947                |
| 65  | 19th      | Cundappa Mudali Street                   | ...  | Venkataramam Pillay Street         | 1,540              |
| 66  | 19th      | Murugappa Mudali Street                  | ...  | Irusappa Gramany Street            | 600                |
| 67  | 19th      | Amman Covil Lane                         | ...  | Its Southern End                   | 361                |
| 68  | 19th      | Arundal Street                           | ...  | Paripoorana Vinayagar Covil Street | 600                |
| 69  | 19th      | Nallanna Mudali Street                   | ...  | Kalingaroya Mudali Street          | 1,350              |
| 70  | 20th      | Arunagiri Mudali Street                  | ...  | Adanjan Mudali Street              | 288                |
| 71  | 20th      | Kesavajerumal South Ward Street          | ...  | Mosque Street                      | 450                |
| 72  | 20th      | Solayappa Mudali Street                  | ...  | Mandavalli Street                  | 750                |
| 73  | 20th      | Chitrakulam East Ward Street             | ...  | Chitrakulam West Ward Street       | 1,094              |
| 74  | 20th      | The widened portion of Mandavalli Street | ...  | Nallumuthu Kumarappa Mudali Street | 300                |
|     |           |                                          |      |                                    | <hr/> 60,149 <hr/> |



TABLE 15.—List of roads and streets reformed with laterite during 1915-16.

| N. | Division. | Names of roads.                         | From | To                                               | Length.<br>Feet. |
|----|-----------|-----------------------------------------|------|--------------------------------------------------|------------------|
| 1  | 1st       | Kalmandapam Road                        | ...  | C Pumping Station                                | 1,784            |
| 2  | 1st       | Thambu Chetty Street                    | ...  | End of New Police Lines                          | 900              |
| 3  | 1st       | Thiruvengada Naick Street               | ...  | The End                                          | 465              |
| 4  | 2nd       | Mannarswami Covil Street                | ...  | Barber's Lane                                    | 1,000            |
| 5  | 2nd       | Solaiyappan Street                      | ...  | House No. 30                                     | 1,200            |
| 6  | 2nd       | Mannarswami Covil Street                | ...  | Kalmandapam Road                                 | 1,400            |
| 7  | 2nd       | Thoppai Mudali Street                   | ...  | Appier Lane                                      | 1,085            |
| 8  | 2nd       | The road in Dakshinamurthi Madam        | ...  | Dakshinamurthi Madam in front of New Police Line | 668              |
| 9  | 2nd       | Kolbandarama Iyer Lane                  | ...  | Soliappen Street                                 | 600              |
| 10 | 3rd       | Thiruvallure High Road                  | ...  | Lamp Post No. 3/237                              | 860              |
| 11 | 3rd       | Do                                      | ...  | Balakrishna Naick Street                         | 870              |
| 12 | 3rd       | Do                                      | ...  | Varadappa Maistry Street                         | 1,223            |
| 13 | 3rd       | Do                                      | ...  | Tollgate                                         | 3,200            |
| 14 | 3rd       | Roads in Korukpet Rubbish Depot         | ...  | The End                                          | 1,696            |
| 15 | 3rd       | Kathiwakam High Road                    | ...  | Thiyagappa Chetty Street                         | 800              |
| 16 | 3rd       | Do                                      | ...  | Cochrane Basin Road                              | 700              |
| 17 | 3rd       | Do                                      | ...  | Lamp Post No. 3/42                               | 1,250            |
| 18 | 3rd       | Do                                      | ...  | Railway Crossing                                 | 760              |
| 19 | 4th       | Triangular Garden in Frazer Bridge Road | ...  | .....                                            | 244              |
| 20 | 4th       | Narayanaserang Garden Street            | ...  | Sullan Street                                    | 920              |
| 21 | 5th       | Cheellamuthu Mudali Lane                | ...  | Ramaswami Street                                 | 266              |

TABLE 15.—List of roads and streets reformed with laterite during 1915-16.—(Continued)

| No. | Division. | Names of roads.               | From                        | To                     | Length.<br>Feet. |
|-----|-----------|-------------------------------|-----------------------------|------------------------|------------------|
| 22  | 7th       | Kanniah Naidu Street          | Basin Bridge Road           | Peddu Naicken Street   | 896              |
| 23  | 7th       | Portuguese Church Street      | Ammen Covil Street          | Old Jail Street        | 2,387            |
| 24  | 7th       | Murugesu Mudali Street        | Saravana Mudali Street      | Peddu Naicken Street   | 407              |
| 25  | 7th       | Ratna Mudali Street           | Pattabirama Iyer Street     | Murugesu Mudali Street | 198              |
| 26  | 7th       | Pattabirama Iyer Street       | Peddu Naicken Street        | Saravana Mudali Street | 398              |
| 27  | 7th       | Telegraph Abboyi Naidu Street | Do                          | The End                | 432              |
| 28  | 8th       | Audiappa Naick Street         | Wall Tax Road               | Basin Street           | 750              |
| 29  | 8th       | Vykonta Vathiar Street        | Kamanen Street              | Audiappa Naick Street  | 230              |
| 30  | 8th       | Bommaller Street              | Do                          | Do                     | 230              |
| 31  | 8th       | Nallanna Mudali Street        | Perumal Covil Garden Street | Anna Pillai Street     | 430              |
| 32  | 8th       | Perumal Covil Garden Street   | Thirupalli Street           | Do                     | 750              |
| 33  | 8th       | Reddi Raman Street            | Audiappa Naick Street       | Dead End               | 550              |
| 34  | 9th       | Vangai Chetty Street          | Isaac Street                | Arrack Godown Street   | 000              |
| 35  | 9th       | Mannaru Street                | Wall Tax Road               | Kalappa Asari Street   | 480              |
| 36  | 9th       | Nannian Street                | Do                          | Edapallam Street       | 460              |
| 37  | 9th       | Kalappa Asari Street          | Mannaru Street              | Rasappa Chetty Street  | 460              |
| 38  | 9th       | Bangarammen Street            | Bommu Chetty Street         | Do                     | 320              |
| 39  | 9th       | Bommu Chetty Street           | Wall Tax Road               | Bangarammen Street     | 320              |
| 40  | 9th       | Nainappa Maistry Street       | Arrack Godown Street        | Rasappa Chetty Street  | 430              |
| 41  | 9th       | Subbu Chetti Street           | Wall Tax Road               | Bangarammen Street     | 350              |
| 42  | 9th       | Venkatarayar Street           | Do                          | Dead End               | 400              |



TABLE 15.—List of roads and streets reformed with laterite during 1915-16—(Continued).

| No. | Division. | Names of roads.                      | From                               | To                           | Length.        |
|-----|-----------|--------------------------------------|------------------------------------|------------------------------|----------------|
| 43  | 10th      | Connoor Road                         | Subbaraya Chetty Lane              | Cooks Road                   | Feet.<br>1,250 |
| 44  | 10th      | Do                                   | Subbaraya Chetty Street            | Its Limit                    | 1,350          |
| 45  | 10th      | Paddy Field Road                     | Perambur High Road                 | Vadivelu Mudali Street       | 1,900          |
| 46  | 10th      | Polu Naick Street                    | Puliantope Road                    | The Latrine                  | 350            |
| 47  | 11th      | Ananthakrishna Iyer Street           | Tottikalai Kumarappa Mudaly Street | Audiappa Naick Street        | 150            |
| 48  | 11th      | Avadanam Paupier 2nd Lane            | Subba Naidu Street                 | Avadanam Paupier 1st Street  | 500            |
| 49  | 11th      | Conjeevaram Muniswami Maistry Street | Ashtabujam Road                    | Its Limit                    | 700            |
| 50  | 11th      | Vijavigneswarar Covil Lane           | Vijavigneswarar Covil Street       | Its End                      | 300            |
| 51  | 11th      | Subba Naidu Street                   | Avadanam Paupier Road              | Vijavigneswarar Covil Street | 630            |
| 52  | 11th      | Thirumalayappa Mudali Street         | Perambore Barracks Road            | Vaikkakarn Street            | 550            |
| 53  | 11th      | Madurai Chetty Street                | Ashtabujam Road                    | Vijavigneswarar Covil Street | 400            |
| 54  | 11th      | Rutlers Lane                         | Purasawakam High Road              | Avadanam Paupier Road        | 1,100          |
| 55  | 11th      | Dalay Road                           | Vichoor Mathia Mudali Street       | Rutlers Lane                 | 200            |
| 56  | 11th      | Avadi Sreenivasa Iyer Street         | De'Mellows Road                    | Arimuthu Maistry Street      | 960            |
| 57  | 11th      | Audiappa Naick Street                | Ananthakrishna Iyer Street         | Avadi Sreenivasa Iyer Street | 618            |
| 58  | 11th      | Padavattammen Covil Street           | Pudu Street                        | Cundappa Mudali High Road    | 960            |
| 59  | 11th      | Do                                   | Do                                 | Chellappa Mudaly Street      | 900            |
| 60  | 11th      | Dharmaraja Covil Street              | Kalathiappa Mudali Street          | Avadanam Paupier Road        | 240            |
| 61  | 11th      | Vichoor Muthia Mudali Street         | Dalay Road                         | Kalathiyappa Mudali Street   | 340            |
| 62  | 11th      | Thottikalai Kumarappa Mudali Street  | De'Mellows Road                    | Vijavigneswarar Covil Street | 1,421          |
| 63  | 11th      | Chellappa Mudali Street              | Strahan's Road                     | Venkatamma Samaj Road        | 2,100          |

TABLE 15.—List of roads and streets reformed with laterite during 1915-16— (Continued).

| No. | Division. | Names of roads.                              | From                          | To                         | Length.<br>Feet. |
|-----|-----------|----------------------------------------------|-------------------------------|----------------------------|------------------|
| 64  | 11th      | Vijlavigneswarar Covil Street                | Aradanam Paupier 1st Lane     | Choolai Bazar Road         | 2,500            |
| 65  | 12th      | Salay Street                                 | Vepery High Road              | Maddox Street              | 700              |
| 66  | 12th      | Lakshmana Gramany Street                     | Purasawaukam High Road        | Abraham Lane               | 400              |
| 67  | 12th      | Abraham Lane                                 | Do                            | The End                    | 330              |
| 68  | 13th      | Vandinodu Street                             | Labbai Street                 | Langs Garden Road          | 500              |
| 69  | 13th      | Nagamany Sirang Street                       | Munia Pillai Street           | Nagappa Mudali Street      | 400              |
| 70  | 13th      | Thiruvengada Naick Street                    | Marshall's Road               | Velayutha Chetty Street    | 1 000            |
| 71  | 13th      | Tholasinga Naick Street                      | Do                            | Do                         | 1,000            |
| 72  | 14th      | A new road "H" in filter bed                 | Road "D"                      | Road "J"                   | 300              |
| 73  | 14th      | A new road "J" in filter bed                 | Do "G"                        | Do "K"                     | 825              |
| 74  | 14th      | A new road "M" in filter bed                 | Do "G"                        | The End                    | 680              |
| 75  | 14th      | A new road "K" in filter bed                 | Do "D"                        | Do                         | 500              |
| 76  | 14th      | A new road "D" in filter bed                 | Do "A"                        | Road "B"                   | 825              |
| 77  | 14th      | Jagannathapuram School Street                | Mc Nicholas Road              | Latrine                    | 700              |
| 78  | 14th      | Jagannathapuram 2nd Street                   | Jagannathapuram School Street | The End                    | 550              |
| 79  | 14th      | Jagannathapuram 4th Street                   | Mc Nicholas Road              | Jagannathapuram 2nd Street | 630              |
| 80  | 14th      | A new road in Rubbish Tip at Brick Kiln Road | .....                         | ..                         | 175              |
| 81  | 14th      | Othavada Street                              | Madavakkam Tank Road          | Connoor Road               | 4,400            |
| 82  | 14th      | Madavakkam Tank Street                       | Do                            | The End                    | 566              |
| 83  | 14th      | Kilpauk Shaft Road                           | Do                            | Shaft 8                    | 1,029            |
| 84  | 14th      | Subbaraya Chetty Street                      | Othavada Street               | Chinnababu Street          | 1,360            |



TABLE 15.—List of roads and streets reformed with laterite during 1915-16—(Concluded).

| No. | Division. | Names of roads.           | From                       | To                                    | Length.<br>Feet. |
|-----|-----------|---------------------------|----------------------------|---------------------------------------|------------------|
| 85  | 14th      | Subbaraya Chetty 2nd Lane | Connoor Road               | Subbaraya Chetty Street               | 750              |
| 86  | 15th      | Azizulmulk 2nd Street     | Greams Road                | Newly proposed Road                   | 1,160            |
| 87  | 15th      | Do 1st Street             | Do                         | Do                                    | 1,080            |
| 88  | 15th      | A new road leading        | Mount Road                 | The Model School in Azizulmulk Street | 700              |
| 89  | 15th      | Azizulmulk 1st Lane       | Do                         | Azizulmulk 1st Street                 | 115              |
| 90  | 15th      | Do 7th Lane               | Do                         | Do                                    | 210              |
| 91  | 15th      | Do 6th Lane               | Do                         | Do                                    | 210              |
| 92  | 15th      | Do 5th Lane               | Do                         | Do                                    | 200              |
| 93  | 15th      | Do 4th Lane               | Do                         | Azizulmulk 3rd Lane                   | 490              |
| 94  | 15th      | Do 8th Lane               | Azizulmulk 3rd Lane        | The End                               | 335              |
| 95  | 18th      | Bakshi Ali Street         | Mahomed Hussain Lane       | Manicka Maistry Street                | 900              |
| 96  | 18th      | Mahomed Hussain Street    | Manicka Maistry Street     | Mahomed Hussain Lane                  | 900              |
| 97  | 19th      | Danodhar Street           | St. Georges Cathedral Road | Ellariyan Street                      | 531              |
| 98  | 19th      | Natchiyappa Chetty Street | Madavaperumal Covil Street | Paripuravanayagar Covil Street        | 418              |
| 99  | 19th      | Oliver's Road             | Luz Church Road            | Veeraperumal Mudali Street            | 2,350            |
| 100 | 20th      | D'Silva Road              | Do                         | Beemanna Mudali Garden Street         | 850              |
|     |           |                           |                            |                                       | 80,887           |

TABLE 15.—List of roads and streets regraded with gravel during 1915-16.

| No. | Division. | Names of roads.      | From                     | To                        | Length.<br>Feet. |
|-----|-----------|----------------------|--------------------------|---------------------------|------------------|
| 1   | 4th       | L gha Chetty Street  | ... Mannady Street       | ... China Bazaar Road     | 2,600            |
| 2   | 4th       | Do                   | ... Do                   | ... Ebramjee Sahib Street | 2,220            |
| 3   | 4th       | Krishnan Cowl Street | ... Angappa Naick Street | ... North Beach Road      | 770              |
|     |           |                      |                          |                           | 5,590            |



TABLE 15(a).—List of roads and streets tarred and retarred during 1915-16.

| No. | Division. | Names of roads.                   | From | To                                | Length.<br>Feet. |
|-----|-----------|-----------------------------------|------|-----------------------------------|------------------|
| 1   | 4th       | Band Practice Road                | ...  | ...                               | 545              |
| 2   | 13th      | Police Commissioner's Office Road | ...  | To a length of 545 feet           | ...              |
| 3   | 17th      | Wallajah Road                     | ...  | Poonamallee High Road             | 3,000            |
| 4   | 17th      | Mount Road                        | ...  | Bells Road                        | 2,000            |
| 5   | 17th      | General Patters Road              | ...  | Wallajah Road (Retarring)         | 1,800            |
| 6   | 15th A    | Mount Road                        | ...  | Woods Road (Retarring)            | 2,000            |
| 7   | 18th      | West Cott Road                    | ...  | Messrs. Spencer & Co. (Retarring) | 2,500            |
| 8   | 18th      | South Beach Road                  | ...  | Peters Road (Retarring)           | 1,650            |
| 9   | 18th      | Do                                | ...  | Sunkuwar Street                   | 2,030            |
|     |           |                                   | ...  | Ice House Road                    | 770              |
|     |           |                                   |      |                                   | 16,295           |

## APPENDIX II.

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TABLE No. 16.

Table showing the monthly rainfall and water level in the Red Hills Lake.

| Month and year. |          | Rainfall in inches. | Tank water surface average. | Remarks.                                                                                              |
|-----------------|----------|---------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|
| April           | 1915 ... | 0.06                | 43.99                       | These figures are according to the Government P. W. D. datum, which differs from the Municipal datum. |
| May             | " ...    | 0.21                | 42.40                       |                                                                                                       |
| June            | " ...    | 0.85                | 41.26                       |                                                                                                       |
| July            | " ...    | 7.99                | 41.39                       |                                                                                                       |
| August          | " ...    | 1.76                | 41.40                       |                                                                                                       |
| September       | " ...    | 3.31                | 40.21                       |                                                                                                       |
| October         | " ...    | 2.64                | 41.20                       |                                                                                                       |
| November        | " ...    | 19.55               | 43.34                       |                                                                                                       |
| December        | " ...    | 1.02                | 44.47                       |                                                                                                       |
| January         | 1916 ... | 0.04                | 44.03                       |                                                                                                       |
| February        | " ...    | ...                 | 43.11                       |                                                                                                       |
| March           | " ...    | ...                 | 42.41                       |                                                                                                       |

TABLE No. 17.

Statement showing the amount of water used for non-domestic purposes and billed for during the year 1915-16 and the total collections of the year.

| Period.                                                     | QUANTITY OF<br>WATER USED<br>DURING THE<br>YEAR. | Bills issued<br>during the<br>year. | Amount<br>collected<br>during the<br>year. |              | REMARKS.       |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------|--------------|----------------|
|                                                             |                                                  |                                     | Gallons.                                   |              |                |
| March                                                       | 1915 ...                                         | 1,77,27,333                         | Rs.<br>13,295                              | A. P.<br>8 0 |                |
| April                                                       | " ...                                            | 1,39,64,333                         | 10,473                                     | 4 0          |                |
| May                                                         | " ...                                            | 1,73,38,666                         | 13,004                                     | 0 0          |                |
| June                                                        | " ...                                            | 1,81,11,666                         | 13,533                                     | 12 0         |                |
| July                                                        | " ...                                            | 1,68,38,666                         | 12,629                                     | 0 0          |                |
| August                                                      | " ...                                            | 1,77,70,833                         | 13,328                                     | 2 0          |                |
| September                                                   | " ...                                            | 1,61,15,000                         | 12,086                                     | 4 0          |                |
| October                                                     | " ...                                            | 1,78,67,500                         | 13,400                                     | 10 0         |                |
| November                                                    | " ...                                            | 1,36,62,166                         | 10,246                                     | 10 0         |                |
| December                                                    | " ...                                            | 1,50,96,500                         | 11,322                                     | 6 0          |                |
| January                                                     | 1916 ...                                         | 1,37,17,500                         | 10,288                                     | 2 0          |                |
| February                                                    | " ...                                            | 1,29,07,833                         | 9,680                                      | 14 0         |                |
| Water supplied & billed for by<br>Special Works Department. |                                                  | 7,31,666                            | 548                                        | 13 2         |                |
|                                                             |                                                  | 19,18,49,662                        | 1,43,887<br>4                              | 5 2<br>8 0   | 1,34,482 6 8   |
| Deduct remissions and refunds.                              |                                                  |                                     |                                            |              |                |
| Balance ...                                                 |                                                  | 19,18,49,662                        | 1,43,882                                   | 13 2         | *1,34,482 6 8  |
| Total for 1914-15 ...                                       |                                                  | 18,57,23,169                        | 1,39,250                                   | 10 0         | 1,46,585 11 11 |

\* Includes arrears of previous years collected during the year.



TABLE No. 18.

Table showing the prosecutions instituted during the year 1915-16,

*Works and License Departments.*

| Sections.<br>or<br>By-laws.          | Charge.                                                                                                                                                          | No. of<br>Summonses<br>granted. | Convicted. | Acquitted. | Withdrawn. | Party<br>not found. | Undisposed<br>of. | Fines imposed. |    |    |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|------------|------------|---------------------|-------------------|----------------|----|----|
|                                      |                                                                                                                                                                  |                                 |            |            |            |                     |                   | Rs.            | A. | P. |
| WORKS DEPARTMENT.                    |                                                                                                                                                                  |                                 |            |            |            |                     |                   |                |    |    |
| 195, 198, 207,<br>221 and 319        | Unlawful entry and prohibition against contamination of water-supply, &c. ...                                                                                    | 128                             | 121        | 3          | 3          | 1                   | ...               | 182            | 8  | 0  |
| 256                                  | For failure to take precautions in case of buildings in ruinous state ...                                                                                        | 4                               | 3          | ...        | ...        | 1                   | 4.                | 7              | 0  | 0  |
| 264 to 271,<br>278, 286<br>287 & 424 | Construction or re-construction of buildings without sanction ...                                                                                                | 73                              | 40         | ...        | 18         | 14                  | 1                 | 80             | 0  | 0  |
| 469                                  | For unlawful removal of earth, sand, or other material from land vested in the Corporation or the deposit of matter or encroachment in or on river, estuary, &c. | 5                               | 5          | ...        | ...        | ...                 | ...               | 11             | 0  | 0  |
| LICENSE DEPARTMENT.                  |                                                                                                                                                                  |                                 |            |            |            |                     |                   |                |    |    |
| 247 & 248                            | For encroachment or projection ...                                                                                                                               | 2,308                           | 87         | 9          | 2,160      | 27                  | 25                | 100            | 12 | 0  |
| 249 (b)                              | For putting up temporary pandals without sanction ...                                                                                                            | 46                              | 9          | ...        | 36         | ...                 | 1                 | 2              | 8  | 0  |
| 252 & 253                            | For making holes and causing obstruction in streets ...                                                                                                          | 213                             | 12         | 1          | 189        | 3                   | 8                 | 14             | 2  | 0  |
| 262                                  | For using inflammable materials for buildings ...                                                                                                                | 1,044                           | 45         | ...        | 955        | 27                  | 17                | 24             | 4  | 0  |
| 312                                  | For unlawful keeping of swine or animals so as to be a nuisance and feeding them with offensive matter.                                                          | 6                               | 4          | ...        | 2          | ...                 | ...               | 2              | 8  | 0  |
| Carried over ...                     |                                                                                                                                                                  | 3,827                           | 326        | 13         | 33,63      | 78                  | 52                | 424            | 10 | 0  |

## Works and License Departments.—(Contd.).

| Sections.<br>or<br>By-laws. | Charge.                                                                                         | No. of<br>Summonses<br>granted. | Convicted.   | Acquitted. | Withdrawn.   | Party<br>not found. | Undisposed<br>of. | Fines imposed. |          |          |
|-----------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|--------------|------------|--------------|---------------------|-------------------|----------------|----------|----------|
|                             |                                                                                                 |                                 |              |            |              |                     |                   | Rs.            | A.       | P.       |
|                             | <b>LICENSE DEPARTMENT—(Contd.)</b>                                                              |                                 |              |            |              |                     |                   |                |          |          |
| 314                         | For using a place as a livery, hackstable or cattle yard without license or contrary to license | 3,827                           | 326          | 13         | 3,363        | 73                  | 52                | 424            | 10       | 0        |
| 316                         | Construction or maintenance of stables, cattle yards, etc., contrary to act or rules            | 3                               | 2            | ...        | 1            | ...                 | ...               | 3              | 8        | 0        |
| 322 & 323                   | For carrying on dangerous trades without license                                                | 840                             | 59           | 4          | 751          | 22                  | 4                 | 106            | 8        | 0        |
| Do                          | For carrying on offensive trades without license or contrary to license                         | 689                             | 97           | 2          | 578          | 7                   | 5                 | 77             | 14       | 0        |
| 325                         | For having combustible depôts without license                                                   | 486                             | 27           | 1          | 437          | 19                  | 2                 | 15             | 8        | 0        |
| 328                         | For using a place as a bakehouse without license or contrary to license                         |                                 |              |            |              |                     |                   |                |          |          |
|                             | " " an aerated water factory without license or contrary to license                             | 152                             | 29           | 1          | 112          | 5                   | 5                 | 50             | 0        | 0        |
| 344                         | For keeping open private market without license                                                 | 19                              | 6            | ...        | 13           | ...                 | ...               | 11             | 0        | 0        |
| 350                         | For carrying on butcher's trade without license                                                 | 175                             | 16           | ...        | 136          | 13                  | 10                | 24             | 0        | 0        |
| By-law 44                   | For using an insanitary place for storing hides and skins                                       | 6                               | ...          | ...        | 6            | ...                 | ...               | ...            | ...      | ...      |
| " 90-91                     | For keeping an oil mill or press in an insanitary condition                                     | 13                              | 12           | ...        | 1            | ...                 | ...               | 39             | 0        | 0        |
| " 178, 179 & 180            | For keeping cartl-yards and hackstables in an insanitary condition                              | 5                               | 5            | ...        | ...          | ...                 | ...               | 22             | 8        | 0        |
|                             | <b>Total ..</b>                                                                                 | <b>7,317</b>                    | <b>1,020</b> | <b>27</b>  | <b>6,017</b> | <b>149</b>          | <b>104</b>        | <b>1,112</b>   | <b>2</b> | <b>0</b> |



TABLE No. 18-A.

Table showing the number of electric lights fixed in 1915-16

| No.          | Locality.                       | No.<br>fixed. |
|--------------|---------------------------------|---------------|
| 1            | Ebramjee Sahib Street           | 4             |
| *2           | Light House Road                | 12            |
| 3            | Sunkuram Chetti Street          | 2             |
| 4            | Gosha Sahib Lane                | 2             |
| 5            | Ranganayakalu Street            | 1             |
| 6            | Anderson Street                 | 3             |
| 7            | Baddrian Street                 | 2             |
| 8            | Oil Monger Street               | 2             |
| 9            | Muthumari Chetty Street         | 2             |
| 10           | Jones Street                    | 3             |
| 11           | Savarimuthu Street              | 2             |
| 12           | Amman Coil Street               | 5             |
| 13           | Mullah Saib Lane                | 3             |
| 14           | Nattu Pilliar Coil Street       | 6             |
| 15           | Moneghar Choultry Road          | 2             |
| 16           | Basin Bridge Road               | 3             |
| *17          | Moore Road                      | 11            |
| *18          | Fraser Bridge Road              | 9             |
| 19           | Strotten Muthia Mudali Street   | 6             |
| 20           | Chinnathambi Mudali Street      | 2             |
| 21           | Reddy Raman Street              | 3             |
| 22           | Anna Pillai Street              | 12            |
| 23           | Thatha Muthiappan Street        | 4             |
| 24           | Maniganda Mudali Street         | 1             |
| 25           | Seenu Mudali Street             | 1             |
| 26           | Narayana Mudali Street          | 3             |
| 27           | Perumal Mudali Street           | 9             |
| 28           | Devaraja Mudali Street          | 6             |
| 29           | Venkatachallam Mudali Street    | 6             |
| 30           | Nyniappa Naicken Street         | 13            |
| 31           | Genguraman Street               | 1             |
| 32           | Lakmudoss Street                | 1             |
| 33           | Kope Venkatachallam Iyer Street | 4             |
| *34          | Benfield Esplanade Road         | 8             |
| 35           | Errabalu Chetti Street          | 8             |
| 36           | Krishna Iyer Street             | 2             |
| *37          | General Hospital Road           | 6             |
| 38           | Elephant Gate Street            | 12            |
| 39           | St. Xavier Street               | 15            |
| 40           | Geils Street                    | 5             |
| 41           | Krishnan Pagoda Street          | 6             |
| 42           | Coral Merchant Street           | 15            |
| 43           | Armenian Street                 | 18            |
| *44          | Lights around Fort              | 36            |
| 45           | Erusappa Maistri Street         | 27            |
| Carried over |                                 | 304           |

| No.              | Locality.                                |                     | No.<br>fixed. |
|------------------|------------------------------------------|---------------------|---------------|
|                  |                                          | Brought forward ... | 304           |
| 46               | Wall Tax Road                            | ...                 | 35            |
| 47               | Angappa Naick Street                     | ...                 | 10            |
| *48              | Band Beach Road                          | ...                 | 26            |
| 49               | Mooker Nallamuthu Chetti Street          | ...                 | 2             |
| 50               | Vythinatha Mudali Street                 | ...                 | 4             |
| 51               | Srinivasa Iyer Street                    | ...                 | 2             |
| *52              | Venkata Iyer Street                      | ...                 | 1             |
| *53              | Ponnappa Chetty Street                   | ...                 | 1             |
| *54              | Badriah Garden Street                    | ...                 | 2             |
| 55               | Ayalur Muthia Mudali Street              | ...                 | 1             |
| 56               | Kandappa Chetti Street                   | ...                 | 1             |
| 57               | Sengalaneer Pilliar Coil Street          | ...                 | 4             |
| 58               | Mannaru Street                           | ...                 | 1             |
| 59               | Ekambareswarer Agraharam                 | ...                 | 3             |
| *60              | Katchaleswarer Agraharam                 | ...                 | 2             |
| 61               | General Hospital Road near Memorial Hall | ...                 | 1             |
| 62               | Kalathiappa Mudali Street                | ...                 | 3             |
| 63               | Rutler's Lane                            | ...                 | 2             |
| 64               | Chulai Bazaar Road                       | ...                 | 12            |
| 65               | Hunters Road                             | ...                 | 18            |
| *66              | Elephant Gate Road Level Crossing        | ...                 | 6             |
| 67               | Atkinson Road                            | ...                 | 3             |
| 68               | Vepery High Road                         | ...                 | 17            |
| 69               | Rundalls Road                            | ...                 | 18            |
| 70               | Police Commissioner's Office Road        | ...                 | 5             |
| 71               | Sydenhams Road                           | ...                 | 29            |
| 72               | Jerimiah's Road                          | ...                 | 9             |
| 73               | Lauder's Gate Road                       | ...                 | 2             |
| 74               | Pathala Ponniammen Coil Street           | ...                 | 3             |
| 75               | Karpura Mudali Street                    | ...                 | 1             |
| 76               | Ritherdon Road                           | ...                 | 3             |
| 77               | Venkatesa Gramany Street                 | ...                 | 1             |
| 78               | Nariangadu Model Dwellings               | ...                 | 1             |
| 79               | Whannels Road                            | ...                 | 1             |
| 80               | Male Asylum Road                         | ...                 | 9             |
| 81               | Halls Road                               | ...                 | 9             |
| 82               | Pantheon Road                            | ...                 | 27            |
| 83               | Monteith Road                            | ...                 | 3             |
| 84               | Chandraban Street                        | ...                 | 1             |
| 85               | Binney's Road                            | ...                 | 6             |
| 86               | Commander-in-Chief's Road                | ...                 | 13            |
| 87               | Marshalls Road                           | ...                 | 23            |
| 88               | Kennet's Lane                            | ...                 | 3             |
| 89               | Ponniamman Coil Street                   | ...                 | 1             |
| 90               | Casa Major Road                          | ...                 | 12            |
| *91              | Spur Tank Road                           | ...                 | 6             |
| 92               | Poonamallee High Road                    | ...                 | 15            |
| Carried over ... |                                          |                     | 662           |



| No.   | Locality.                                        |                 |     | No.<br>fixed. |
|-------|--------------------------------------------------|-----------------|-----|---------------|
|       |                                                  | Brought forward | ... | 662           |
| 93    | McNicholas Road                                  | ...             | ... | 9             |
| 94    | College Road                                     | ...             | ... | 6             |
| 95    | Haddows Road                                     | ...             | ... | 3             |
| 96    | Anderson Road                                    | ...             | ... | 6             |
| 97    | Moore's Road                                     | ...             | ... | 3             |
| 98    | Graems Road                                      | ...             | ... | 1             |
| 99    | Nungambakam High Road                            | ...             | ... | 10            |
| 100   | Mount Road and Thousand Lights Road              | ...             | ... | 22            |
| 101   | Army Clothing Board Lane                         | ...             | ... | 1             |
| 102   | General Patters Road                             | ...             | ... | 15            |
| 103   | St. Andrews Bridge                               | ...             | ... | 4             |
| 104   | Iyah Mudali Street                               | ...             | ... | 2             |
| *105  | Agraharam Street, Chintadripet                   | ...             | ... | 1             |
| 106   | Ellis Road                                       | ...             | ... | 21            |
| 107   | Nagappier Street                                 | ...             | ... | 4             |
| *108  | Adams Road                                       | ...             | ... | 16            |
| *109  | Veeraraghava Mudali Street                       | ...             | ... | 5             |
| *110  | Venkatesa Naick Street                           | ...             | ... | 1             |
| 111   | Nallathambi Mudali Street                        | ...             | ... | 2             |
| 112   | Edward Elliots Road                              | ...             | ... | 4             |
| 113   | St. George's Cathedral Road                      | ...             | ... | 12            |
| *114  | Triplicane Mada Street                           | ...             | ... | 15            |
| 115   | Cutcheri Road                                    | ...             | ... | 15            |
| 116   | Murrays Gate Road                                | ...             | ... | 4             |
| 117   | Chamier's Road                                   | ...             | ... | 3             |
| 118   | Brodies Road                                     | ...             | ... | 2             |
| *119  | Edward Elliots Road Junction of South Beach Road | ...             | ... | 3             |
| 120   | Devady Gate Road                                 | ...             | ... | 1             |
| 121   | San Thome Road                                   | ...             | ... | 10            |
| 122   | Mowbrays Road                                    | ...             | ... | 2             |
| 123   | Appu Mudali Street                               | ...             | ... | 3             |
| Total |                                                  |                 |     | 868           |

\* Roads and streets where cables were laid and lights fixed departmentally.

TABLE No. 19.

*Total of License fees recovered and the number of applications or cases dealt with during the year 1915-16.*

| Total No. of applications or cases dealt with. | Number refused or undisposed. | Number sanctioned. | Purpose.                                                                       | License fee. |    |    |
|------------------------------------------------|-------------------------------|--------------------|--------------------------------------------------------------------------------|--------------|----|----|
|                                                |                               |                    |                                                                                | Rs.          | A. | P. |
| 21                                             | 1                             | 20                 | Aerated water and Ice factories ...                                            | 2,000        | 0  | 0  |
| 254                                            | 2                             | 252                | Bake Houses ...                                                                | 1,880        | 0  | 0  |
| 5                                              | ...                           | 5                  | Blasting powder ...                                                            | 250          | 0  | 0  |
| 3                                              | ...                           | 3                  | Bones ...                                                                      | 150          | 0  | 0  |
| 49                                             | 4                             | 45                 | Brickkilns ...                                                                 | 410          | 0  | 0  |
| 2,366                                          | 30                            | 2,336              | Construction or reconstruction of buildings and huts ...                       | 5,794        | 8  | 0  |
| 178                                            | 1                             | 177                | Breaking and hammering iron and manufacturing vessels out of iron. ...         | 1,770        | 0  | 0  |
| 288                                            | ...                           | 288                | Beating metals or manufacturing vessels, utensils, etc., with sheet metals ... | 576          | 0  | 0  |
| 38                                             | ...                           | 38                 | Candles ...                                                                    | 210          | 0  | 0  |
| 1                                              | ...                           | 1                  | Carpet factories ...                                                           | 4            | 0  | 0  |
| 25                                             | 1                             | 24                 | Cert-stands ...                                                                | 780          | 0  | 0  |
| 55                                             | ...                           | 55                 | Casting metals ...                                                             | 420          | 0  | 0  |
| 1                                              | ...                           | 1                  | Cat gut ...                                                                    | 15           | 0  | 0  |
| 673                                            | 4                             | 669                | Cattle yards ...                                                               | 4,373        | 8  | 0  |
| 89                                             | ...                           | 89                 | Charcoal, coal or coke ...                                                     | 1,244        | 0  | 0  |
| 13                                             | ...                           | 13                 | Chemicals ...                                                                  | 325          | 0  | 0  |
| 62                                             | ...                           | 62                 | Cloths manufacture in Indigo or other colours ...                              | 264          | 0  | 0  |
| 4                                              | ...                           | 4                  | Cocoanut fibre ...                                                             | 20           | 0  | 0  |
| 12                                             | ...                           | 12                 | Condiment factories ...                                                        | 120          | 0  | 0  |
| 10                                             | ...                           | 10                 | Cotton ...                                                                     | 205          | 0  | 0  |
| 71                                             | ...                           | 71                 | Debentures registration ...                                                    | 71           | 0  | 0  |
| 3                                              | ...                           | 3                  | Dynamite ...                                                                   | 150          | 0  | 0  |
| 1                                              | ...                           | 1                  | Fat ...                                                                        | 15           | 0  | 0  |
| 1,058                                          | 1                             | 1,057              | Firewood ...                                                                   | 3,506        | 0  | 0  |
| 5,280                                          | 44                            | 5,236              | Carried over ...                                                               | 24,553       | 0  | 0  |



| Total No. of applications or cases dealt with. | Number refused or undisposed. | Number sanctioned. | Purpose.                                                       | License fee. |    |    |
|------------------------------------------------|-------------------------------|--------------------|----------------------------------------------------------------|--------------|----|----|
|                                                |                               |                    |                                                                | Rs.          | A. | P. |
| 5,280                                          | 44                            | 5,236              | Brought forward ...                                            | 24,553       | 0  | 0  |
| 137                                            | ...                           | 137                | Fireworks ...                                                  | 504          | 0  | 0  |
| 11                                             | ...                           | 11                 | Fish ...                                                       | 33           | 0  | 0  |
| 50                                             | ...                           | 50                 | Flour ...                                                      | 250          | 0  | 0  |
| 4                                              | ...                           | 4                  | Fulminate of mercury ...                                       | 200          | 0  | 0  |
| 4                                              | ...                           | 4                  | Gas ...                                                        | 200          | 0  | 0  |
| 54                                             | ...                           | 54                 | Gilding and electroplating ...                                 | 270          | 0  | 0  |
| 83                                             | ...                           | 83                 | Grave diggers ...                                              | 83           | 0  | 0  |
| 5                                              | ...                           | 5                  | Gunpowder ...                                                  | 500          | 0  | 0  |
| 198                                            | ...                           | 198                | Hack stables ...                                               | 702          | 0  | 0  |
| 11                                             | ...                           | 11                 | Hair (souri) ...                                               | 55           | 0  | 0  |
| 2                                              | ...                           | 2                  | Horns ...                                                      | 100          | 0  | 0  |
| 17                                             | ...                           | 17                 | Iron safe manufacturing ...                                    | 425          | 0  | 0  |
| 34                                             | ...                           | 34                 | Lime ...                                                       | 680          | 0  | 0  |
| 44                                             | 1                             | 43                 | Markets (private) ...                                          | 3,750        | 0  | 0  |
| 384                                            | ...                           | 384                | Matches ...                                                    | 1,521        | 0  | 0  |
| 34                                             | 6                             | 28                 | Meat stalls, outside markets ...                               | 140          | 0  | 0  |
| 818                                            | ...                           | 818                | Obstruction, scaffolding, etc., under sections 252 and 253 ... | 2,928        | 0  | 0  |
| 64                                             | ...                           | 64                 | Oil petroleum under Municipal Act ...                          | 560          | 0  | 0  |
| 74                                             | 12                            | 62                 | Do under Petroleum Act ...                                     | 2,040        | 0  | 0  |
| 106                                            | ...                           | 106                | Oil mills and presses ...                                      | 1,425        | 0  | 0  |
| 100                                            | ...                           | 100                | Oils of sorts ...                                              | 1,180        | 0  | 0  |
| 10                                             | ...                           | 10                 | Oil boiling ...                                                | 50           | 0  | 0  |
| 3                                              | ...                           | 3                  | Offal ...                                                      | 150          | 0  | 0  |
| 599                                            | ...                           | 599                | Paddy boiling ...                                              | 695          | 0  | 0  |
| 5,573                                          | ...                           | 5,573              | Pandals ...                                                    | 10,448       | 4  | 0  |
| 1                                              | ...                           | 1                  | Paper factories ...                                            | 5            | 0  | 0  |
| 8                                              | ...                           | 8                  | Pitch ...                                                      | 200          | 0  | 0  |
| 29                                             | ...                           | 29                 | Plumbers' licenses ...                                         | 290          | 0  | 0  |
| 13,737                                         | 63                            | 13,674             | Carried over ...                                               | 53,937       | 4  | 0  |

| Total No. of applications or cases dealt with. | Number refused or undisposed. | Number sanctioned. | Purpose.                                                                                                 | License fee.  |        |        |
|------------------------------------------------|-------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|---------------|--------|--------|
|                                                |                               |                    |                                                                                                          | Rs.           | A.     | P.     |
| 18,737                                         | 63                            | 18,674             | Brought forward ...                                                                                      | 53,937        | 4      | 0      |
| 43                                             | ...                           | 43                 | Pottery kilns ...                                                                                        | 215           | 0      | 0      |
| 1                                              | ...                           | 1                  | Rags ...                                                                                                 | 5             | 0      | 0      |
| 123                                            | ...                           | 123                | Skins, hides and leather ...                                                                             | 4,010         | 0      | 0      |
| 32                                             | ...                           | 32                 | Spirits and turpentine ...                                                                               | 800           | 0      | 0      |
| 72                                             | ...                           | 72                 | Straw, dry leaves, etc. ...                                                                              | 405           | 0      | 0      |
| 3,773                                          | ...                           | 3,773              | Sunshades ...                                                                                            | 6,091         | 0      | 0      |
| 3                                              | ...                           | 3                  | Sulphur ...                                                                                              | 75            | 0      | 0      |
| 1                                              | ...                           | 1                  | Swine ...                                                                                                | 3             | 0      | 0      |
| 12                                             | ...                           | 12                 | Tar ...                                                                                                  | 300           | 0      | 0      |
| 154                                            | ...                           | 154                | Timber, bamboo, palmyra rafters, etc. ...                                                                | 4,845         | 0      | 0      |
| 2                                              | ...                           | 2                  | Wool ...                                                                                                 | 100           | 0      | 0      |
| 2                                              | ...                           | 2                  | Contractor's registration fee ...                                                                        | 2             | 0      | 0      |
| 342                                            | 3                             | 339                | Washing soiled clothes ...                                                                               | Free.         |        |        |
| 335                                            | ...                           | 335                | Butchers' licenses under sections 342 and 350 ...                                                        | Free.         |        |        |
| 399                                            | ...                           | 399                | Arrear collections ...                                                                                   | 1,250         | 4      | 0      |
| 25                                             | 25                            | ...                | Advance collections ...                                                                                  | 426           | 8      | 0      |
| 19,056                                         | 91                            | 18,965             | Less the amount refunded ...                                                                             | 72,465<br>180 | 0<br>8 | 0<br>0 |
|                                                |                               |                    | Total ...                                                                                                | *72,284       | 8      | 0      |
|                                                |                               |                    | Total of fees collected under "Licenses, Registration, etc.," including private markets and cart-stands. |               |        |        |
|                                                |                               |                    | During the year 1914-15 ...                                                                              | 69,601        | 4      | 0      |
|                                                |                               |                    | Do. 1913-14 ...                                                                                          | 69,368        | 4      | 0      |
|                                                |                               |                    | Do. 1912-13 ...                                                                                          | 67,699        | 2      | 0      |

\* Includes fees for Cart Stands Private Markets viz., Rs. 4,530-0-0.



TABLE No. 20.

*People's Park.*—Statement of receipts and disbursements for the year 1915-16.

| Disbursements.                      | Amount. |     |     | Receipts.                         | Amount. |    |    |
|-------------------------------------|---------|-----|-----|-----------------------------------|---------|----|----|
|                                     | RS.     | A.  | P.  |                                   | RS.     | A. | P. |
| Establishment ... ..                | 4,519   | 7   | 4   |                                   |         |    |    |
| Allowance ... ..                    | ...     | ... | ... | Sale proceeds of hay and grass... | 1,210   | 7  | 3  |
| <i>Labour.</i>                      |         |     |     |                                   |         |    |    |
| Gardeners, &c. ... ..               | 3,258   |     | 5   | Payment by contractor for mena-   |         |    |    |
| Cost of food for animals ... ..     | 48      | 0   | 0   | gerie collections ... ..          | 7,295   | 15 | 0  |
| Feeding animals and birds ... ..    | 12,360  | 10  | 6   |                                   |         |    |    |
| Purchasing animals and birds ... .. | 2,559   | 10  | 0   | Miscellaneous ... ..              | 658     | 2  | 3  |
| <i>Other charges.</i>               |         |     |     |                                   |         |    |    |
| Clothing for sergeants and peons.   | 97      | 2   | 9   | Government grant for the up-      | 9,164   | 8  | 6  |
| Weeding and cutting grass ... ..    | 956     | 9   | 11  | keep of the Zoological collec-    |         |    |    |
| Sundries, &c. ... ..                | 438     | 2   | 9   | tions ... ..                      | 2,000   | 0  | 0  |
| Repairing gravel walks ... ..       | 33      | 13  | 8   |                                   |         |    |    |
| Do. bandstand, seats ... ..         | 0       | 4   | 7   |                                   |         |    |    |
| Do. lamp posts ... ..               | 19      | 11  | 6   |                                   |         |    |    |
| Purchasing tubs, manure, &c. ... .. | 249     | 7   | 8   |                                   |         |    |    |
| Improving and covering foliage      |         |     |     |                                   |         |    |    |
| shed ... ..                         | 217     | 4   | 11  |                                   |         |    |    |
| Constructing masonry stands ... ..  | 42      | 10  | 3   |                                   |         |    |    |
| General repairs to cages ... ..     | 1,487   | 1   | 10  |                                   |         |    |    |
| Stationery ... ..                   | 26      | 4   | 3   |                                   |         |    |    |
| Printing ... ..                     | 19      | 9   | 0   |                                   |         |    |    |
| Advertisement ... ..                | 24      | 14  | 0   |                                   |         |    |    |
| Fee for band ... ..                 | 860     | 0   | 0   |                                   |         |    |    |
| Removing silt from the lake near    |         |     |     | Met from the Corporation funds... | 18,115  | 11 | 1  |
| menagerie ... ..                    | 2,060   | 0   | 5   |                                   |         |    |    |
|                                     | 24,759  | 14  | 5   |                                   |         |    |    |
| Tools and plant ... ..              | 0       | 13  | 10  |                                   |         |    |    |
| Total ... ..                        | 29,280  | 3   | 7   | Total ... ..                      | 29,280  | 3  | 7  |

TABLE No. 21.

*Napier Park.*

| Disbursements.            | Amount. |     |     | Receipts.                         | Amount. |     |     |
|---------------------------|---------|-----|-----|-----------------------------------|---------|-----|-----|
|                           | RS.     | A.  | P.  |                                   | RS.     | A.  | P.  |
| Establishment ... ..      | 572     | 5   | 5   | Sale proceeds of hay and grass.   | ...     | ... | ... |
| Allowance ... ..          | 120     | 0   | 0   |                                   |         |     |     |
| <i>Labour.</i>            |         |     |     | Miscellaneous ... ..              | 114     | 11  | 2   |
| Gardeners, &c. ... ..     | 666     | 10  | 3   |                                   |         |     |     |
| Clothing for peons ... .. | 30      | 5   | 5   |                                   |         |     |     |
| Contingencies ... ..      | 3       | 6   | 5   |                                   |         |     |     |
|                           | 700     | 6   | 1   |                                   |         |     |     |
| Tools and plant ... ..    | ...     | ... | ... | Met from the Corporation funds... | 1,278   | 0   | 4   |
| Total ... ..              | 1,392   | 11  | 6   | Total ... ..                      | 1,392   | 11  | 6   |

## APPENDIX II.

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TABLE No. 22.

*Robinson Park.*—Statement of receipts and disbursements for the year 1915-16.

| Disbursements.                    | Amount.     | Receipts.                      | Amount.     |
|-----------------------------------|-------------|--------------------------------|-------------|
|                                   | RS. A. P.   |                                | RS. A. P.   |
| Establishment ... ..              | 1,026 3 1   |                                |             |
| <i>Labour.</i>                    |             | Sale of grass, &c. ...         | 292 12 0    |
| Gardeners, Engine Driver and      |             | Met from the funds of the Cor- |             |
| Lascar ... ..                     | 2,594 7 0   | poration ... ..                | 4,652 0 10  |
| Oil for lighting ... ..           | 10 0 9      |                                |             |
| Clothing for peons ... ..         | 20 2 4      |                                |             |
| Purchasing wire fencing ...       | 172 3 2     |                                |             |
| Repairs to hand cart ... ..       | 35 14 4     |                                |             |
| Renewing coir matting and other   |             |                                |             |
| Improvements of Fernery ...       | 34 0 0      |                                |             |
| Repairing Lamposts, Lanterns      |             |                                |             |
| and purchasing chimneys ...       | 12 6 10     |                                |             |
| Purchasing tubs, manure, plants,  |             |                                |             |
| &c. ... ..                        | 175 1 4     |                                |             |
| Fees for playing band... ..       | 525 0 0     |                                |             |
| Extending Foliage shed, repair-   |             |                                |             |
| ing Bridgegate and Portico ...    | 50 15 4     |                                |             |
| Repairing and painting seats, &c. |             |                                |             |
| ... ..                            | 7 9 10      |                                |             |
| Stationery ... ..                 | 6 12 11     |                                |             |
| Printing ... ..                   | 2 4 3       |                                |             |
| Fuel, &c., for oil engine ...     | 271 11 8    |                                |             |
| Tools and plant ... ..            | 3,918 9 9   |                                |             |
| Total ... ..                      | 4,944 12 10 | Total ... ..                   | 4,944 12 10 |

TABLE No. 23.

*Loane Square.*—Statement of receipts and disbursements for the year 1915-16.

| Disbursements.                   | Amount.    | Receipts.                      | Amount.    |
|----------------------------------|------------|--------------------------------|------------|
|                                  | RS. A. P.  |                                | RS. A. P.  |
| Allowance ... ..                 | 60 0 0     | Met from the funds of the Cor- |            |
| Labour ... ..                    | 250 10 4   | poration ... ..                | 1,360 10 4 |
| Purchasing tubs ... ..           | ...        |                                |            |
| Painting railing gates and white |            |                                |            |
| washing ... ..                   | ...        |                                |            |
| Fees for band playing ... ..     | 1,050 0 0  |                                |            |
| Tools and plant ... ..           | ...        |                                |            |
| Total ... ..                     | 1,360 10 4 | Total ... ..                   | 1,360 10 4 |



## APPENDIX II.

TABLE No. 24.

## CORPORATION WORKSHOPS.

Statement showing the number and cost of works executed during 1915-16.

|                                                | Number. | Cost.    |    |    |
|------------------------------------------------|---------|----------|----|----|
|                                                |         | Rs.      | A. | P. |
| I. Departmental Works ... ..                   | 3,005   | 1,24,842 | 4  | 8  |
| II. Private Works ... ..                       | 146     | 2,701    | 2  | 9  |
| III. Foreign or Advances Recoverable Works ... | 43      | 653      | 14 | 3  |
| Total...                                       | 3,194   | 1,28,197 | 5  | 8  |
| New Works ... ..                               | 1,301   |          |    |    |
| Repairs ... ..                                 | 1,893   |          |    |    |

TABLE No. 25.

## CORPORATION WORKSHOPS.

Statement showing some of the more important works done during 1915-16.

| No. | Particulars.                                                                                                                                                                                               | Estimate Amount. | Expenditure during the year. |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------|
|     |                                                                                                                                                                                                            | Rs.              | Rs.                          |
| 1   | Manufacturing 30 rubbish carts, 20 box carts and 10 night-soil carts ... ..                                                                                                                                | 13,150           | 12,064                       |
| 2   | Manufacturing 40 wooden drain planks with bamboos, 4 iron hand carts with buckets, 20 night-soil buckets with covers and 50 corrugated iron dust bins large, for Conservancy Overseer, 2nd Division ... .. | 1,054            | 653                          |
| 3   | Manufacturing 6 wooden hand carts without boxes, 6 wooden hand carts with boxes, and 6 iron hand carts with buckets for Drainage Superintendent ... ..                                                     | 1,704            | 1,452                        |
| 4   | Manufacturing 200 pairs cast iron naves for conservancy carts and 200 axles for rubbish carts for Chief Superintendent, Cart Depots ... ..                                                                 | 5,900            | 4,744                        |
| 5   | Constructing a corrugated iron shed 25' x 50' for storing ropes, twine, etc. ... ..                                                                                                                        | 2,410            | 1,899                        |
| 6   | Manufacturing 10 single bullock night-soil carts for Chief Superintendent, Cart Depots ... ..                                                                                                              | 1,570            | 1,294                        |
| 7   | Do do do ... ..                                                                                                                                                                                            | 1,600            | 1,577                        |
| 8   | Manufacturing 1,500 cast iron gratings, large ... ..                                                                                                                                                       | 1,568            | 59                           |
| 9   | Do 10 single bullock rubbish carts (wooden body without axle and nave) for the use of Health Department.                                                                                                   | 1,380            | 1,045                        |
| 10  | Constructing a corrugated iron shed for storing electrical materials at Stores ... ..                                                                                                                      | 2,650            | 1,878                        |

TABLE No. 26.

## CORPORATION WORKSHOPS.

Statement showing the number and description of carts, buckets, dust-bins, &c., manufactured during 1915-16.

| Particulars..                        | No. |
|--------------------------------------|-----|
| Box carts, wooden ... ..             | 20  |
| Rubbish carts ... ..                 | 41  |
| Hand carts, with buckets iron ... .. | 21  |
| Do box, wooden ... ..                | 28  |
| Do without box ... ..                | 15  |
| Trolleys, wooden ... ..              | 6   |
| Barrel carts ... ..                  | 4   |
| Night-soil carts ... ..              | 33  |
| Do buckets, with covers ... ..       | 250 |
| Night-soil pails ... ..              | 84  |
| Dust-bins, large ... ..              | 50  |
| Meter doors, wrought iron ... ..     | 141 |
| Lanterns ... ..                      | 87  |
| Manhole covers, diameter, 18" ... .. | 4   |

TABLE No. 27.

## CORPORATION WORKSHOPS.

Statement of New Machinery purchased during 1915-16.

| Description of Machine. | No. | Value.    |
|-------------------------|-----|-----------|
| NIL.                    |     | Rs. A. P. |



Report from the Sub-Assistant Inspector of Schools, Triplicane Range, on the working of schools aided and maintained by the Corporation during the official year, 1915-16.

#### SCHOOLS MAINTAINED BY THE CORPORATION.

1. *Number and Strength.*—Four schools were opened during the year, all in March 1916. The total number of schools now maintained by the Corporation on 31st March 1916, comes to 16.

The necessary particulars with regard to their strength are given below :—

| Serial No. | Name of School.             | Standards.          | No. on rolls on<br>31st March 1916. |        | Total. | Average<br>attend-<br>ance. |
|------------|-----------------------------|---------------------|-------------------------------------|--------|--------|-----------------------------|
|            |                             |                     | Boys.                               | Girls. |        |                             |
| 1          | Vallabha Agraharam          | Infant to<br>Fourth | 141                                 | 25     | 166    | 134                         |
| 2          | Chetput                     |                     | 170                                 | 36     | 206    | 170                         |
| 3          | Periamet                    |                     | 91                                  | 49     | 140    | 100                         |
| 4          | Chintadripet                |                     | 161                                 | 31     | 192    | 136                         |
| 5          | Purasawalkam                |                     | 200                                 | 2      | 202    | 169                         |
| 6          | Mylapore                    |                     | 177                                 | 6      | 183    | 136                         |
| 7          | Nungambakam                 |                     | 177                                 | 41     | 218    | 163                         |
| 8          | Goyatope                    |                     | 131                                 | 38     | 169    | 139                         |
| 9          | Thousand Lights             |                     | 104                                 | 35     | 139    | 86                          |
| 10         | Venkatarangam Pillai Street |                     | 74                                  | 34     | 108    | 87                          |
| 11         | Bell's Road                 |                     | 71                                  | 39     | 110    | 78                          |
| 12         | Malayappen Street           |                     | 81                                  | 13     | 94     | 84                          |
| 13         | Sanjeeviroyanpet            |                     | 173                                 | 7      | 180    | 145                         |
| 14         | Korukupet                   |                     | 160                                 | 24     | 184    | 132                         |
| 15         | Angappa Naicken Street      |                     | 14                                  | ...    | 14     | 14                          |
| 16         | Salaivinayagarkoil Street   |                     | 6                                   | 6      | 12     | 12                          |
| Total ...  |                             |                     | 1,931                               | 386    | 2,317  | 1,785                       |

Out of these 16 schools, the schools at Bell's Road, Angappa Naicken Street and Salaivinayagarkoil Street, were opened in the last week of March 1916, and hence their strength is low. In the case of the Malayappen Street school the strength has fallen down by about 20 per cent. on account of some disunion among the staff as against the remarkable growth it showed during the previous year. It is hoped that this school will early gain back its popularity.

Of these 16 schools the schools at Chetput, Periamet and Thousand Lights, are intended mainly for the panchamas and the one at Malayappen Street has also a good number of panchamas. In the other schools a good many of the pupils attending them are of the other backward classes and these backward classes of pupils are all admitted free and thus it may be said in a way that the opening of these schools has made education free to the poor and backward classes.

*Accommodation and Equipment.*—All the schools were provided with accommodation of their own. The school at Nungambakam was held in the rented building till the end of November 1915, when it was removed to the Corporation



building. All these buildings have more or less open space around them of which a portion is allotted for garden and the rest for play-ground.

In the case of the schools at Angappa Naicken Street and Salaivinayagar Koil Street newly opened, arrangements for permanent latrines have not yet been made.

All the schools have their full supply of furniture made to them and the equipment for these schools is satisfactory and up-to-date. But in regard to apparatus and appliances, the earlier opened schools have their full supply. In regard to others, sanction has been made for a supply of apparatus and appliances to the value of Rs. 350 for each school and arrangements are being made for their supply.

*Staff and Instruction.*—Each of these schools is staffed with five teachers and a Handicraft Instructor who gives instructions in carpentry. The staff has been efficient, most of the teachers employed having been trained or professionally qualified. The Chetput school alone has got two additional teachers on account of the increased strength it has. In this connection I have the honour to submit that the instruction given in carpentry in the Chetput School and the progress made by the pupils therein is worth noting. In the case of the schools at Vallabha Agraharam and Periamet, a fair progress is made in carpentry.

Syllabuses of instruction were drawn up in conformity with the scheme and followed. Some of the finished articles of carpentry made by the pupils of the Periamet school were sold in auction during the year and the amount remitted into the Corporation treasury.

*Finances.*—The particulars regarding this item are not available in this office.

2. *Schools aided by the Corporation.*—Nil. (*Vide* para. 2 of G. O., No. 820-M., dated 25th May 1911.)

*General Remarks.*—The schools were paid surprise visits by the Sub-Assistant Inspector of Schools and the working of the schools has been carefully watched by them. The Inspector of Schools has also paid some visits to these schools and to the aided schools. The copies of the reports on the Corporation schools made on their annual inspection have been duly forwarded to the President, Corporation of Madras. During the year standardisation has been made with regard to the supply of apparatus and appliances, stationery articles and forms. By the opening of the Corporation schools a good many of the backward and poor classes of pupils are given education free in the Municipality and it is hoped that by opening the remaining schools required under the scheme, more pupils will have the opportunity for getting free education.



Statement No. 1 relating to general statistics in Educational Institutions in the area under the control of the Corporation of Madras, (1915-16).

| Institutions.                            | 1915.                 |                                       |        | 1916.                 |                                       |        | Total popu-<br>lation of<br>School-going<br>age. |        | REMARKS. |
|------------------------------------------|-----------------------|---------------------------------------|--------|-----------------------|---------------------------------------|--------|--------------------------------------------------|--------|----------|
|                                          | Number of<br>Schools. | Number of<br>pupils on<br>31st March. |        | Number of<br>Schools. | Number of<br>pupils on<br>31st March. |        | Boys.                                            | Girls. |          |
|                                          |                       | Boys.                                 | Girls. |                       | Boys.                                 | Girls. |                                                  |        |          |
| <i>Elementary Schools for<br/>Boys.</i>  |                       |                                       |        |                       |                                       |        |                                                  |        |          |
| Municipal ...                            | 12                    | 1,570                                 | 220    | 16                    | 1,931                                 | 386    | 39,970                                           | 37,829 |          |
| Aided from Muni-<br>cipal Funds ...      | ...                   | ...                                   | ...    | ...                   | ...                                   | ...    |                                                  |        |          |
| Others :—                                |                       |                                       |        |                       |                                       |        |                                                  |        |          |
| (1) Recognized ...                       | 182                   | 14,289                                | 2,491  | 192                   | 15,488                                | 2,468  |                                                  |        |          |
| (2) Un-recognized...                     | 119                   | 3,214                                 | 113    | 61                    | 2,367                                 | 108    |                                                  |        |          |
| Total ...                                | 313                   | 19,073                                | 2,824  | 269                   | 19,786                                | 2,962  | ...                                              | ...    |          |
| <i>Elementary Schools<br/>for Girls.</i> |                       |                                       |        |                       |                                       |        |                                                  |        |          |
| Municipal ...                            | ...                   | ...                                   | ...    | ...                   | ...                                   | ...    | 39,970                                           | 37,829 |          |
| Aided from Muni-<br>cipal Funds ...      | ...                   | ...                                   | ...    | ...                   | ...                                   | ...    |                                                  |        |          |
| Others :—                                |                       |                                       |        |                       |                                       |        |                                                  |        |          |
| (1) Recognized ...                       | 55                    | 495                                   | 7,835  | 56                    | 721                                   | 7,953  |                                                  |        |          |
| (2) Un-recognized...                     | ...                   | ...                                   | ...    | 3                     | 32                                    | 290    |                                                  |        |          |
| Total ...                                | 55                    | 495                                   | 7,835  | 59                    | 753                                   | 8,243  | ...                                              | ...    |          |

Statement No. 2 giving particulars as to the qualifications of the teaching staff employed in institutions maintained or aided from Municipal funds, (Corporation of Madras.)

| Class of Institutions.               |                            | Number of teachers employed. | Number possessing professional certificates. | Number possessing general education certificates only. | Number entirely uncertificated. | REMARKS.                                                                                                                                                |
|--------------------------------------|----------------------------|------------------------------|----------------------------------------------|--------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elementary Schools for Boys.</i>  |                            |                              |                                              |                                                        |                                 |                                                                                                                                                         |
| Maintained by the Corporation.       | { Males ...<br>Females ... | 89 (a)<br>...                | 69<br>...                                    | 19 (a)<br>...                                          | 1<br>...                        | (a) Includes 15 Handicraft Instructors. There are also 4 Kindergarten Instructors, 1 Supervisor and 2 Gymnastic Instructors, common to all the schools. |
| Aided by the Corporation.            | { Males ...<br>Females ... | ...<br>...                   | ...<br>...                                   | ...<br>...                                             | ...<br>...                      |                                                                                                                                                         |
| Aided from Provincial Funds.         | { Males ...<br>Females ... | 602 (b)<br>45                | 246<br>19                                    | 290<br>21                                              | 66<br>5                         |                                                                                                                                                         |
| Total ...                            |                            | 691<br>45                    | 315<br>19                                    | 309<br>21                                              | 67<br>5                         |                                                                                                                                                         |
| <i>Elementary Schools for Girls.</i> |                            |                              |                                              |                                                        |                                 |                                                                                                                                                         |
| Maintained by the Corporation        |                            | ...                          | ...                                          | ...                                                    | ...                             | (c) Includes 1 Gymnastic Instructor and 2 Drawing Mistresses.                                                                                           |
| Aided by the Corporation             |                            | ...                          | ...                                          | ...                                                    | ...                             |                                                                                                                                                         |
| Aided from Provincial Funds.         | { Males ...<br>Females ... | 17 (c)<br>858                | 12<br>271                                    | 4<br>75                                                | 1<br>12                         |                                                                                                                                                         |
| Total ...                            |                            | ...                          | ...                                          | ...                                                    | ...                             |                                                                                                                                                         |



#### APPENDIX IV.

##### ANNUAL REPORT OF THE ROYAPETTAH HOSPITAL FOR THE YEAR 1915-16.

*Accommodation.*—The accommodation is for 76 patients, made up as follows :—

68 beds for Indians.

8 beds for Europeans and Eurasians.

At times beds have to be made on the floor to accommodate any superfluous number that may be admitted.

*Patients Treated.*—In-patients 2512 and out-patients 62,844 were treated during the year, against 2,580 and 60,145, respectively in the previous year. There was a slight decrease in the number of in-patients but an appreciable increase amounting to 2,699 in the out-patients. The decrease is due to the admission of very chronic cases of typhoid fever and kala azar.

*Operations.*—A total of 4,397 were performed during the year, 1,063 in-patients and 3334 out-patients. The corresponding figures for last year were a total of 4,379, made up of 1,261 in-patients and 3,118 out-patients. There was a falling off of 198 operations among the in-patients, due, it may be said, to a fewer number of patients seeking operative interference.

*Amount of Recoveries.*—The amount recovered from patients treated in the special ward came to Rs. 538-8-0, that is, at eight annas a day. A larger sum might with advantage and without any individual hardship, be charged for such patients, say Re. 1 per diem.

*Establishment.*—This is sufficient. The *toties* are a difficult lot to deal with, they have become very independent and leave the hospital without notice whenever the whim takes them.

*Epidemics.*—Small-pox was very prevalent and of a virulent type. Cholera, too, was present for a time of the year; several of such cases were successively treated in the Isolation Hospital by the Senior Sub-Assistant Surgeon Subbhan Khan by saline injections. I was sorry to lose the services of this subordinate, who has done very good work in the Kistnampet Hospital. Typhoid fever was rife in Triplicane; anti typhoid vaccinations were undertaken by me at this hospital, *i.e.*, Royapettah, as a prophylactic measure, but very very few people took advantage of this offer, notwithstanding it was to be performed gratuitously.

*Inspections and Remarks by Visitors.*—Visits were paid by the President of the Corporation of Madras, whenever any improvements or alterations in the hospital were required. The Surgeon-General paid a visit to investigate the suitability of the out-patient department for the large number of people seeking medical advice and treatment. For the daily attendance of 350 to 400 patients, the space in this department is considerably cramped and inadequate.



*General Remarks.*—During the year, one of the medical staff of this hospital, Senior Sub-Assistant Surgeon N. Ramaswami Naidu, was honoured by Government by the distinction of Rao Sahib. A complete X-ray plant has been installed and is in daily use. I have been lucky in procuring one of my subordinates to undertake the task of working the apparatus. He performs this work without any allowance; I approached the President with a request for some monetary recognition of this extra work, outside the province of the legitimate duties of the subordinate in question, but the Standing Committee of the Corporation of Madras decided none was necessary. It is intended to broach the subject again at a suitable season. Further remarks and suggestions are forthcoming but as probably no attention would be paid to these, a discreet reticence is considered expedient.

|                  |   |                                      |
|------------------|---|--------------------------------------|
| MADRAS,          | } | C. DONOVAN, LT.-COL., I.M.S.,        |
| 20th June, 1916. |   | Superintendent, Royapettah Hospital. |

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CONCISE ANNUAL REPORT OF THE CHINTADRI PET DISPENSARY FOR THE  
YEAR 1915-16.

(1) *Accommodation.*—Accommodation is sufficient.

(2) *Admission.*—The total number of patients treated and the daily average attendance were 35214 and 262·17 as against 33876 and 266·67, respectively, during the previous year. The number of operations performed was 1,517 as against 1,271 during the previous year. This shows that the dispensary is popular.

A statement showing the classes of diseases treated is attached.

(3) The dispensary was inspected often by the Surgeon, 3rd District.

(4) There have been some changes in the establishment during the year. In place of the European nurse whose services were dispensed with, there were appointed one compounder, one native nurse, one ayah and one peon.

(5) *Finance.*—The total cost of maintaining the dispensary for the year was Rs. 4,132-7-10 as against Rs. 3,767-1-8 in the previous year. The variation is explained under the following headings :—

(a) *Establishment.*—The expenditure under this head was Rs. 2,106-1-4 as against Rs. 2,054-9-8 in the previous year.

(b) *European Medicines.*—The cost of this was Rs. 1,378-8-7 as against Rs. 981-5-8 in the previous year. The difference in the total expenditure is due to the great difference in the cost of European medicines which was unavoidable on account of the large number of patients treated.

(c) *Bazaar Medicines.*—Expenditure under this heading was *nil* in both the years.

(d) *Miscellaneous Charges.*—These amounted to Rs. 647-13-11 as against Rs. 731-2-4 in the previous year. The difference of Rs. 83-4-5 was probably due to the cost of varnishing the dispensary furniture done last year.



(c) *Buildings and Repairs.*—Nil during both the years.

(f) *General Remarks*—Nil.

CHINTADRIPET DISPENSARY, }

13th June, 1916.

E. VIJAYAM,

Sub-Assistant Surgeon in Charge

CONCISE ANNUAL REPORT OF THE WASHHERMANPET DISPENSARY  
FOR THE YEAR 1915-16.

1. *Accommodation.*—This dispensary was opened by the Corporation of Madras on 2nd February 1913 to treat malarial cases only. Since 1st January, 1914, necessary provision was made to treat all cases in a rented building at No 50, Tiruvethiyur High Road. Owing to want of sufficient accommodation in this building, the Surgeon, 1st District designed a new dispensary with necessary alterations in the Old Police Station at 37, Tiruvethiyur High Road, and it has been occupied since 1st December 1915.

2. *Inspections.*—During the year under report the Surgeon, 1st District inspected the dispensary every week; and the President and the Health Officer, Madras Corporation, at frequent intervals.

3. *Number of Patients treated as compared with the previous year.*—The total number of patients that attended the dispensary was 19,136 against 19,338 in the previous year; the decrease is due to a fall in the case of malaria which was not so prevalent in this part this year.

| YEAR.   |     |     |     | MALARIA.  |
|---------|-----|-----|-----|-----------|
| 1914-15 | ... | ... | ... | ... 8,394 |
| 1915-16 | ... | ... | ... | ... 4,821 |
|         |     |     |     | ... 3,573 |

4. *The most common diseases treated were :—*

|                                                | No.       |
|------------------------------------------------|-----------|
| Malaria ...                                    | ... 4,821 |
| All other diseases of the digestive system ... | ... 2,103 |
| Other diseases of the skin ...                 | ... 2,058 |
| Ulcers ...                                     | ... 1,990 |
| All other diseases of the ear ...              | ... 1,471 |
| All diseases of respiratory system ...         | ... 1,096 |
| Diseases of the connective tissue...           | ... 931   |
| Injuries (General and Local) ...               | ... 930   |
| All other general disease ...                  | ... 910   |

The maximum number that attended on any one day was 203. The daily average was 139.2 against 135.7 in the previous year.

5. *Operations.*—The total number of operations performed during the year under report was 579.



6. *Establishment*.—No change.

7. *Work done by the Midwife*.—The midwife attached to this dispensary attends to the surgical dressings of women and children from 7 to 10 A.M. daily ; and conducted 138 cases of out-door labour for the year under report.

MADRAS,  
26th April, 1916. }

MUHAMMAD ALLY,  
*Sub-Assistant-Surgeon in Charge of  
Washermanpet Dispensary.*

Countersigned

R. BRYSON MAJOR, I.M.S.,  
*Surgeon, 1st District,  
Madras.*

CONCISE REPORT OF THE BAULIAH NAYUDU DISPENSARY, VEPERY,  
FOR THE YEAR 1915-16.

The dispensary is situated in a central place, quite convenient to the people residing in Purasawalkam, Vepery, Chulai and Kilpauk, and even those residing in distant places such as Otary, Perambur, New Town, Egmore, Nungambaukam, Chetput and Pudupet, resort to the dispensary.

*Establishment*—consists of the following :—

one Senior Grade Sub-Assistant Surgeon.

one Second do do

three Compounders.

one Nurse and midwife.

one Male Ward Attendant.

one Female do

four Peons.

one Sweeper.

The total admissions of the out-patients treated during the year was 43,491 against 54,579 in the previous year. The decrease is due to the remarkable fall under malaria and other fevers—4,600 in the former and 4,226 in the latter were less than the previous year.

2,168 minor operations were performed during the year against 2,142 in the previous year.

The maximum number of patients treated on any one day was 359 on 20th October 1915.

Though it was notified that the services of the midwife are available at all hours, no one seem to utilise her services probably due to the several private midwives practising in the neighbourhood.

VEPERY,  
12th June 1916. }

S. SETH,  
*Senior Sub-Assistant Surgeon in-Charge.*

J. MILTON,  
*Civil Surgeon Ag: Presidency Surgeon,  
2nd District Madras.*

*Report on the working of the Rajah Sir Ramaswami Mudaliar  
Lying-in-Hospital for the official year 1915-16.*

**Accommodation.**—There are fifty beds in the hospital including eight beds in the contagious sheds.

**Attendance.**—894 out-patients and 1,229 inpatients were treated during the year as against 838 out-patients and 1,269 in-patients in the previous year.

The daily average sick was 21.82 in-patients and 5.29 out-patients as against 21.27 and 3.87 respectively, of the previous year.

**Operations.**—102 obstetric operations were performed during the year with a maternal mortality of 4. The principal obstetric operations performed were :

|                                             |     |     |     |     |    |
|---------------------------------------------|-----|-----|-----|-----|----|
| Forceps                                     | ... | ... | ... | ... | 62 |
| Podalic version for transverse presentation | ... | ... | ... | ... | 6  |
| Podalic extraction                          | ... | ... | ... | ... | 3  |
| Evacuation of uterus                        | ... | ... | ... | ... | 16 |
| Craniotomy                                  | ... | ... | ... | ... | 1  |
| Other operations                            | ... | ... | ... | ... | 14 |

The expenditure of the institution during the year under report was in excess of that of the previous year by Rs. 4,317-1-0. This increase is due to an increase under the head 'Repairs to buildings etc.' The new nurses' quarters were completed and handed over for occupation in December last. There is accommodation for the two staff nurses and twenty-four probationary nurses.

**General Remarks.**—Since last October the Corporation are training Indian midwives in this hospital, such that after training they may scatter themselves in the city and may be readily available to the public. At present there are 18 midwives stipended by the Corporation under training and it is hoped in the course of a few years there will be a sufficient number to meet the requirements of the city.

H. S. HALGE,

*Surgeon, in-Charge 1st District,  
and Surgeon, Raja Sir Ramaswamy Mudaliar  
Lying-in-Hospital.*

ANNUAL REPORT OF THE GEORGETOWN DISPENSARY FOR THE  
YEAR 1915-16.

**Accommodation.**—The same as the previous year.

**Repairs to buildings.**—Necessary repairs were carried out.

**Attendance.**—42,111 out-patients were treated during the year, and the daily average attendance was 302.63; as compared with the figures for the year 1914-15, there is a falling off in the number treated by 935, and an increase in the daily average attendance by 2.88.



The following table shows the most common diseases treated during the years 1914-15, and 1915-16 :—

| Class of disease.                       | No. treated in<br>1915-16. | No. treated in<br>1914-15. |
|-----------------------------------------|----------------------------|----------------------------|
| Diseases of the Digestive system ... .  | 6,704                      | 4,337                      |
| Diseases of the ear ... .               | 4,884                      | 3,764                      |
| Malaria ... .                           | 4,528                      | 8,011                      |
| Diseases of the Respiratory system...   | 4,510                      | 2,246                      |
| Injuries general and local ... .        | 3,526                      | 3,552                      |
| Diseases of the skin ... .              | 2,923                      | 1,679                      |
| Ulcers ... .                            | 2,759                      | 2,658                      |
| Diseases of the connective tissue ... . | 2,364                      | 1,718                      |
| Pyrexia of uncertain origin ... .       | 1,601                      | 1,995                      |

Comparing the figures for the two years, it will be seen that there is a marked falling off in the number of cases of malaria and pyrexia of uncertain origin; in the year 1915-16, while most of the other figures show a marked increase, the reduction is due to the less prevalence of malaria during the year and to the treatment of such cases in Tondiarpet and Washermanpet by the Malaria staff and in the dispensaries in those localities.

*Operations.*—2,882 minor operations were performed—an increase by 381 over the year previous.

The statements showing the finance, attendance and diseases treated, are attached.

MADRAS,

14th June 1916.

H. S. HALGE, L. M. S.

Civil Assistant Surgeon,  
in-Charge 1st District, Madras.

MADRAS, 16th May 1916.

From

AYURVEDA BHUSHANA PANDIT C. V. SUBRAMANIA SASTRY, A. K. A. C.,  
*Senior Physician, S. K. P. D. Dispensary,*  
*Madras.*

To

THE PRESIDENT,  
*Corporation of Madras,*  
 MADRAS.

SIR,

I have the honour to submit herewith the Administration Report for the year 1915-16, showing the work of Sree Kanyaka Parameswary Ayurvedic Free Dispensary, Madras.

2. This institution was established in the year 1898. This was the first of its kind while the others are only of a more recent date. This institution is helping the rich and poor alike, and has gained wide popularity in Madras which will be evident from the undermentioned figures showing the total number of patients treated from 14th August 1898 to 1916.

| Years.  | Males. | Females and Children. | Total. |
|---------|--------|-----------------------|--------|
| 1898    | 8,330  | 6,402                 | 14,731 |
| 1899    | 35,245 | 35,728                | 70,973 |
| 1900    | 32,799 | 38,923                | 71,732 |
| 1901    | 29,568 | 39,193                | 68,761 |
| 1902    | 28,773 | 38,352                | 67,125 |
| 1903    | 31,683 | 41,131                | 72,814 |
| 1904    | 35,822 | 37,400                | 73,322 |
| 1905    | 36,413 | 36,624                | 73,037 |
| 1906    | 34,985 | 34,933                | 69,918 |
| 1907    | 34,351 | 35,008                | 69,359 |
| 1908    | 36,041 | 36,395                | 72,436 |
| 1909    | 31,967 | 36,276                | 68,243 |
| 1910    | 30,345 | 38,236                | 68,881 |
| 1911-12 | 26,086 | 36,322                | 62,408 |
| 1912-13 | 26,436 | 33,230                | 59,666 |
| 1913-14 | 25,035 | 35,041                | 60,076 |
| 1914-15 | 25,177 | 35,504                | 60,681 |
| 1915-16 | 27,413 | 35,257                | 62,670 |



Besides the above figures I would like to show plainly the increased number of patients during this year when compared with those of the previous years which clearly shows the way how this dispensary is working.

|               | 1914-15.   | 1915-16. | Increase. |
|---------------|------------|----------|-----------|
| Total number  | ... 25,727 | 28,375   | 2,648     |
| Daily average | ... 166.24 | 171.69   | 5.45      |

3. It is from this dispensary a start was given after two years of its opening in 1898 to equip a college for the training of Ayurvedic Physicians. It ran through successfully for about a period of 12 years and many physicians who are now successfully practising in this and other sister Presidencies such as Bengal, Punjab, United Provinces, Burma, etc., were the products of the said College.

4. Many respectable gentlemen inspected this dispensary and expressed themselves highly pleased with its way of working. Some of them are enumerated below :—

1. Mr. L. Gillam, A. D. C. to H. H. the Maharaja Gaekwar of Baroda, 15th November 1910.

2. Rao Bahadur A. Srinivasa Charloo, Retired Inspector-General of Registration and Mujary Secretary of Mysore Government, 3rd April 1903.

3. Dewan Bahadur P. Rajaratna Mudaliar Avargal, C.I.E., Retired Inspector-General of Registration, 16th June 1903.

4. Dr. Sir S. Subramania Iyer, Kt. C.I.E., 15th October 1903.

5. The Hon'ble V. Krishnaswamy Iyer, Kt. C.S.E., 30th October 1903.

6. Lieut.-Colonel W. King, I.M.S., late Sanitary Commissioner to the Government of Madras, 30th August 1905.

7. Miss A. S. Kugler M.D., Guntur, 3rd October 1906.

8. Dewan Bahadur K. Kristnaswamy Rao, late Dewan of Travancore, 2nd October, 1907.

9. Sir P. N. Kristnamurthy, late Dewan of Mysore, 7th January 1908.

10. Sir V. P. Madhava Rao, C.I.E., Dewan of Baroda, 24th January 1908.

11. Hon'ble Shif-a-ul-mulk Zynulaludin Sahib, B.A., Sheriff of Madras, 2nd July 1914.

12. Kaviraj Jamini Bhusharao Kaviratna, M.A, M.B. & C.M. President, All-India Ayurvedic Conference, Madras, 23rd December 1915.

13. Mahamahopadhyaya Sree Pramathanada Tharka Bhushan, Calcutta.

14. Sree Prayagadisjee, Mahant of Tirupati, 29th December 1915.

15. Hon'ble Mr. A. S. Kristna Rao, Additional Member of the Legislative Council, 4th February 1916.



I herewith enclose a tabular statement of the patients who attended the dispensary, the diseases for which they were treated, the average daily attendance and the income and expenditure of the institution.

I have the honor to be,

Sir,

Your most obedient servant,

C. V. SUBRAMANIA SASTRY,

*Senior Physician.*

*Madras 10th May 1916.*

From

THE REV J. S. M. HOOPER, M.A.,

*Honorary Secretary and Treasurer,*

*Kalyani Hospital, Mylapore, Madras.*

To

THE PRESIDENT,

*Corporation of Madras.*

SIR,

I have the honour to submit the returns and report on the working of the Kalyani Hospital during the year 1915-16. Dr. Simonsen has been in charge of the hospital throughout the year, assisted by Miss C. James, Indian Lady Apothecary. The number of in-patients shows a considerable increase as compared with the previous year, and there is every reason to think that the hospital is increasingly gaining the confidence of the public of all classes. The income received from local sources has also shown some improvement, this being partly due to the fact that among the in-patients an unusually large number were from the well-to-do classes. Contributions from such quarters are the more needed as the majority of the patients, both in-door and out-door, continue to be from the poorer sections of the community.

Once again the Committee has to record the death of one of its members. The Rev. J. Cooling had been Chairman of the Committee from the commencement, and before the hospital was built and during all the subsequent developments of its work his was one of the strongest influences moulding its policy. It was entirely in keeping with the modesty of his character that no one should know of the generosity that led him, in association with Mrs. Cooling, to endow a bed in the hospital in perpetuity some years ago. The endowment remains as a concrete witness to his devotion to the hospital; but the Committee will long miss his sympathetic knowledge and wise control.

During the year the hospital was seen by a number of visitors among the rest by Her Excellency, Lady Pentland, who left on record her appreciation of the hospital buildings and of the work that is being done.

I have the honor to be,

Sir,

Your most obedient servant,

J. S. M. HOOPER,

*Honorary Secretary,*

*Kalyani Hospital, Mylapore.*



SAN THOME DISPENSARY,  
SAN THOME,

From

MADRAS, 15th May 1916.

RAO BAHADUR G. NARAYANASWAMI CHETTI GARU,

*Honorary Secretary, San Thome Dispensary,*

*San Thome, Mylapore.*

To

THE PRESIDENT,

*Corporation of Madras,*

MADRAS.

SIR,

I have the honour to submit herewith the report on the working of the San Thome Dispensary, for the year 1915-1916.

2. *History.*—This charitable institution was founded by the late Bishop Strachan, M.D., in 1874, apparently in connection with the S.P.G. Mission, and is of great value, not only to the general public, but also to the several charitable institutions in and around San Thome and Mylapore, and the poor of all classes of the community without distinction to caste, creed or nationality. It is in existence for the past 42 years affording medical aid and surgical relief to the sufferers that resort to the place. It is now supported by the Corporation and by the public and managed by a strong Committee, the Health Officer, Corporation of Madras, being its chairman.

3. *Accommodation and Repairs.*—The building in which the dispensary is located is the property of the S. P. G. Mission. It is suitable to its requirements. It is opened daily from 7 to 10 A.M. for treatment, medical advice, &c. As the mission has rented the building for a nominal rent of Rs. 10 per mensem, the Committee has been pleased to spend Rs. 279-8-0 and carry out the principal and urgent repairs from the dispensary fund. The building is now in a fair condition.

4. *Total treated.*—The number of new admissions during the year under report was 10,474 against 10,412 in the previous year and the average daily attendance was 64.52 against 64.33 in the previous year.

5. *Operations.*—603 operations of minor nature were performed during the year.

6. *Income.*—The total income of the year from all sources is Rs. 1,349-11-0.

7. *Establishment.*—The staff consists of a Sub-Assistant Surgeon, a Compounder and two menials.

8. *Inspection.*—The dispensary was inspected on several occasions by the Health Officer of the Madras Corporation and by the members of the committee during its working hours.

9. *General Remarks.*—The dispensary continues to do its good work to all in and around San Thome and Mylapore, and maintains its popularity as usual, but its support is inadequate to meet the finances in the way of repairs to buildings, purchase of medicines, furniture, &c., to create a new life to the dispensary.

10. The Sub-Assistant Surgeon Mr. F. Imanuel Pillai in charge of the dispensary spares no pains, time or trouble to make the institution popular among the poor classes and does his work with interest.

11. The members of the committee thank the Commissioners of the Corporation of Madras for their monthly grant of Rs. 66-10-8 and an annual grant of Rs. 300 for the up-keep of the dispensary.

12. Statements showing the attendance of patients treated, the finance and the diseases treated are attached.

I have the honor to be,

Sir,

Your most obedient servant,

G. NARAYANASWAMI CHETTI,

*Honorary Secretary,*

*San Thome Dispensary.*

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#### REPORT OF THE WORKING OF THE VENKATARAMANA DISPENSARY.

MYLAPORE, DURING 1915-16.

The Hon'ble Mr. T. V. Seshagiri Aiyar Avargal, High Court Judge, Madras, having kindly agreed to accept office, as a member of the Board of Trustees of the Venkataramana Dispensary, was made a member accordingly. The Board thanks him for his kindness.

2. The dispensary continued to do its useful work. The daily average attendance of patients rose from 123 in the previous year to 143 during the year under report. All classes of people receive aid. Panchamas, Mahomadans and other non-Brahmins resort as freely as Brahmins. All receive uniformly kind and considerate treatment.

3. The income of the dispensary from interest on invested capital slightly increased owing to the increased rate of interest on loans given on mortgage of house-property in Madras. Rs. 28,000 are invested in this manner and Rs. 3,000 are with Nattukottai Chetty firms. The Corporation of Madras was kind enough to continue its contribution of Rs. 100 for the year.

4. A larger quantity of medicines was prepared during the year, there being an increase of Rs. 350 under this head.



5. Arrangement was made towards the close of the year for the treatment of minor surgical cases. People in this part of the city are beginning to avail themselves of this aid as well.

6. Vaidya Visarada Bharatha Sastri, one of the Physicians of this dispensary was employed by Rao Bahadur Calavala Cunnun Chettiar Avargal, as Head-Physician of a similar charitable dispensary opened by him at Triplicane. Mr. Bharatha Sastri's services are, it is understood, much appreciated there. A passed student from the Venkataramana Medical School is employed as his assistant.

THE VENKATARAMANA DISPENSARY  
MYLAPORE,

12th June 1916.

A. KRISHNASWAMI AIYAR,

for Secretary.

#### ST. THOMAS CONVENT DISPENSARY, SAN THOME, REPORT, 1915-1916.

The dispensary continues its good work. It is temporarily placed but in a short time will be permanently established on the ground floor of the same building as being more convenient to the patients.

The total number of patients treated during the year was 9,687 against 11,377 in the previous year. The decrease due chiefly to malaria and allied fevers may be attributed to the anti-malarial measures, cleaning of wells and tanks carried out by the Corporation during the year.

The principal diseases treated during the year were :—

|            |         |                            |           |
|------------|---------|----------------------------|-----------|
| Dysentery  | ... 227 | Rheumatic affection        | ... 368   |
| Diarrhœa   | ... 351 | Tubercular diseases        | ... 89    |
| Anæmia     | ... 872 | All other general diseases |           |
|            |         | including worms            | ... 1,138 |
| Malaria    | ... 458 | Diseases of the skin       | ... 622   |
| Injuries   | ... 339 | Digestive system           | ... 478   |
|            |         | Diseases of the eye        | ... 480   |
| Operations | 145     | Diseases of the ear        | ... 510   |

The average daily attendance was 181 of which 149 out-door and 32 in-door.

In the new accommodation two separate apartments are being provided for males and females with a verandah for the patients in waiting.

The chief object of the institution was to procure relief to the poorer classes of the locality, without distinction of caste or creed, but some respectable members of European, Brahmin and Hindu, etc., families attend and we receive no aid for treatment.

The dispensary is opened daily from 8 to 11-30 A.M. and from 5 to 6-30 P.M. Two European sisters, an Indian Nun and a female servant are in nursing attendance during these hours daily.

During the year there were 48 lepers who came to the dispensary for treatment—this increasing number of such patients circulating about, leads one to desire that some means be put within their reach so as to decide them upon going to some Asylum, where they would find relief for themselves and so prevent the risk of contagion among others. The usual reply given is:—no means of passage. A certificate of admission or a free pass of transport would seemingly better matters.

The convent has no funds and besides the small allowance from the Corporation, there is no other source of help towards the dispensary. An increase of this allowance so as to cover the cost of remedies and dressings (leaving aside the cost of the staff,) would enable the sisters to co-operate still more with the Corporation's work for the benefit of the people of the locality.

M. FLORA FUNN.

*Lady Superior.*



Statement showing the diseases treated in the undermentioned Hospitals and Dispensaries during the year 1915-16.

| Hospital and Dispensaries.                                                        |                                  |                                |                          |                          |                       |                                 |                              |                                                           |                           |                     |                   |                     |        |       |
|-----------------------------------------------------------------------------------|----------------------------------|--------------------------------|--------------------------|--------------------------|-----------------------|---------------------------------|------------------------------|-----------------------------------------------------------|---------------------------|---------------------|-------------------|---------------------|--------|-------|
| Names of Diseases.                                                                | George Town Dispensary.          | Washermanpet Dispensary.       | Balish Naidu Dispensary. | Chintadripet Dispensary. | San Thome Dispensary. | St. Thomas' Convent Dispensary. | Raja Sir Rameswari Hospital. | Sri Kanyaka Parameswari Devasthanam Ayurvedic Dispensary. | Venkataramana Dispensary. | Rayapetah Hospital. | Kalyani Hospital. | Isolation Hospital. | Total. |       |
|                                                                                   |                                  |                                |                          |                          |                       |                                 |                              |                                                           |                           |                     |                   |                     |        |       |
| INFECTIVE DISEASES.                                                               | Cholera                          | 3                              | ...                      | ...                      | ...                   | ...                             | ...                          | ...                                                       | 4                         | ...                 | ...               | 8                   | 15     |       |
|                                                                                   | Dysentery                        | 642                            | 322                      | 1,276                    | 870                   | 363                             | 227                          | 64                                                        | 470                       | 2,403               | 356               | ...                 | 7,405  |       |
|                                                                                   | Euteric fever                    | 3                              | 1                        | ...                      | ...                   | ...                             | ...                          | ...                                                       | 9                         | 76                  | 24                | ...                 | 115    |       |
|                                                                                   | Gonorrhoea                       | 186                            | 23                       | 184                      | 152                   | 21                              | 26                           | 1                                                         | 114                       | 1,941               | 148               | ...                 | 2,900  |       |
|                                                                                   | Kala-Azar                        | ...                            | 6                        | ...                      | ...                   | ...                             | ...                          | ...                                                       | ...                       | 117                 | ...               | ...                 | 123    |       |
|                                                                                   | Leptosy                          | ...                            | 4                        | 4                        | 6                     | 13                              | 48                           | ...                                                       | 4                         | ...                 | ...               | ...                 | 79     |       |
|                                                                                   | Malaria                          | 4,528                          | 4,821                    | 3,274                    | 1,696                 | 438                             | 458                          | 154                                                       | 5,932                     | 429                 | 3,061             | 243                 | 25,037 |       |
|                                                                                   | Plague                           | ...                            | ...                      | ...                      | ...                   | ...                             | ...                          | ...                                                       | ...                       | ...                 | ...               | ...                 | ...    |       |
|                                                                                   | Pneumonia                        | 20                             | 17                       | 3                        | 79                    | 2                               | ...                          | 9                                                         | ...                       | 44                  | 58                | 5                   | 237    |       |
|                                                                                   | Pyrexia of uncertain Origin      | 1,601                          | 94                       | 2,448                    | 3,340                 | 356                             | ...                          | 101                                                       | ...                       | 1,712               | 2,832             | 355                 | 12,839 |       |
|                                                                                   | Rheumatic fever and Rheumatism   | 1,107                          | 491                      | 1,045                    | 992                   | 356                             | 368                          | 1                                                         | 242                       | 27                  | 5,690             | 403                 | 10,722 |       |
|                                                                                   | Small-pox                        | 23                             | 7                        | ...                      | ...                   | ...                             | 6                            | ...                                                       | ...                       | ...                 | ...               | 4                   | 264    |       |
| OTHER GENERAL DISEASES.                                                           | Syphilis (primary and secondary) | 344                            | 38                       | 190                      | 127                   | 46                              | 110                          | 1                                                         | 34                        | 2                   | 553               | 168                 | 1,913  |       |
|                                                                                   | Tubercle of the lungs            | 5                              | ...                      | 19                       | 64                    | 5                               | ...                          | 6                                                         | 40                        | 56                  | 47                | 182                 | 424    |       |
|                                                                                   | Other Tubercular Diseases        | 20                             | 37                       | 34                       | 22                    | 16                              | 89                           | ...                                                       | ...                       | 85                  | 36                | ...                 | 339    |       |
|                                                                                   | All other infective diseases     | 1                              | 3                        | 38                       | 45                    | 56                              | ...                          | ...                                                       | 31                        | ...                 | 1                 | ...                 | 217    |       |
|                                                                                   | Anemia                           | 414                            | 16                       | 343                      | 53                    | 113                             | 872                          | 36                                                        | 312                       | 677                 | 2,923             | 219                 | 5,978  |       |
|                                                                                   | Diabetes                         | 9                              | ...                      | 11                       | 28                    | 8                               | ...                          | ...                                                       | 12                        | 33                  | 23                | 20                  | 144    |       |
|                                                                                   | Scurvy                           | ...                            | ...                      | ...                      | ...                   | ...                             | ...                          | ...                                                       | ...                       | ...                 | ...               | ...                 | ...    |       |
|                                                                                   | New growths { Non-Malignant      | 188                            | 2                        | 7                        | 4                     | ...                             | 44                           | 2                                                         | ...                       | 254                 | 44                | 61                  | 605    |       |
|                                                                                   | { Malignant                      | 1                              | 7                        | 2                        | 1                     | ...                             | 277                          | ...                                                       | ...                       | 13                  | 32                | 40                  | 372    |       |
|                                                                                   | All other general diseases       | 1,039                          | 910                      | 5,138                    | 2,745                 | 139                             | 1,138                        | 6                                                         | 9,545                     | 4,198               | 6,407             | 219                 | 31,484 |       |
|                                                                                   | DISEASES.                        | Diseases of the nervous system | 747                      | 647                      | 1,061                 | 642                             | 206                          | 72                                                        | 11                        | 209                 | 1,622             | 1,617               | 188    | 7,022 |
|                                                                                   |                                  | Diseases of the eye            | 880                      | 304                      | 650                   | 520                             | 215                          | 480                                                       | 2                         | 271                 | 1,820             | 905                 | 264    | 5,811 |
| Diseases of the ear                                                               |                                  | 4,884                          | 1,471                    | 3,886                    | 2,974                 | 799                             | 610                          | ...                                                       | 2,815                     | 832                 | 1,923             | 329                 | 20,443 |       |
| Diseases of the nose                                                              |                                  | 188                            | 16                       | 161                      | 31                    | 25                              | 42                           | ...                                                       | 8                         | 866                 | 348               | 122                 | 1,810  |       |
| Diseases of the circulatory system                                                |                                  | 28                             | 21                       | 39                       | 32                    | 20                              | 128                          | 4                                                         | 25                        | 335                 | 70                | 52                  | 757    |       |
| All Diseases of the respiratory system except Pneumonia and Tubercle of the lungs |                                  | 4,510                          | 1,096                    | 4,836                    | 5,537                 | 1,124                           | 249                          | 215                                                       | 1,316                     | 1,868               | 5,061             | 536                 | 26,368 |       |
| Dyspepsia                                                                         | 461                              | 127                            | ...                      | ...                      | 451                   | 602                             | 11                           | ...                                                       | 1,015                     | 2,133               | 321               | 6,121               |        |       |
| Diarrhoea                                                                         | 555                              | 235                            | ...                      | ...                      | 364                   | 351                             | 49                           | ...                                                       | 1,077                     | 1,356               | 299               | 4,286               |        |       |





*Statement showing the attendance of Patients treated, the income and the expenditure of the undermentioned Hospitals and Dispensaries, during the year 1915-1916.*

| Name of Hospital.                                        | Total number treated. |           | Average daily attendance. |           | Percentage of deaths to total in-door treated. | Income.                |                  |                    | Expenditure.   |        |                     |                   |                |                            |      |       |      |        | Total. |       |        |        |        |     |
|----------------------------------------------------------|-----------------------|-----------|---------------------------|-----------|------------------------------------------------|------------------------|------------------|--------------------|----------------|--------|---------------------|-------------------|----------------|----------------------------|------|-------|------|--------|--------|-------|--------|--------|--------|-----|
|                                                          | In-door.              | Out-door. | In-door.                  | Out-door. |                                                | From subscription, &c. | From Government. | From Municipality. | Establishment. | Diets. | European Medicines. | Bazaar Medicines. | Miscellaneous. | Repairs to Buildings, etc. |      |       |      |        |        |       |        |        |        |     |
|                                                          |                       |           |                           |           |                                                |                        |                  |                    |                |        |                     |                   |                |                            |      |       |      |        |        |       |        |        |        |     |
| Royapettah Hospital                                      | 2,512                 | 62,844    | 77-23                     | 372-02    | 3-70                                           | 538                    | 8 0              | 47,451             | 8 0            | 11,499 | 12 11               | 9,626             | 12 6           | 11,603                     | 6 0  | 1,489 | 8 10 | 12,173 | 10 4   | 1,544 | 13 5   | 48,140 | 0 0    |     |
| George Town Dispensary                                   | ...                   | 42,111    | ...                       | 302-63    | ...                                            | ...                    | ...              | 12,388             | 10 11          | 4,878  | 3 9                 | ...               | ...            | 3,629                      | 1 6  | 58    | 8 9  | 3,831  | 12 11  | ...   | ...    | 12,388 | 10 11  |     |
| Washermanpet Dispensary                                  | ...                   | 19,136    | ...                       | 139-2     | ...                                            | ...                    | ...              | 4,714              | 7 2            | 1,987  | 8 9                 | ...               | ...            | 1,062                      | 2 8  | 2     | 2 0  | 971    | 4 1    | 691   | 5 8    | 4,714  | 7 2    |     |
| Bauliah Naidu Dispensary                                 | ...                   | 43,491    | ...                       | 273-28    | ...                                            | ...                    | ...              | 9,501              | 11 8           | 3,402  | 4 0                 | ...               | ...            | 4,992                      | 7 9  | ...   | ...  | 1,106  | 15 11  | ...   | ...    | 9,501  | 11 8   |     |
| St. Thomé Dispensary                                     | ...                   | 10,474    | ...                       | 64-52     | ...                                            | 249                    | 11 0             | 1,100              | 0 0            | 642    | 0 0                 | ...               | ...            | 233                        | 14 0 | 14    | 3 0  | 211    | 0 6    | 279   | 8 0    | 1,380  | 9 6    |     |
| St. Thomas' Convent Dispensary                           | 986                   | 8,701     | 32                        | 149       | 2-8                                            | ...                    | ...              | 240                | 0 0            | 1,636  | 0 0                 | 570               | 0 0            | 616                        | 0 0  | 120   | 0 0  | 190    | 0 0    | 45    | 0 0    | 3,177  | 0 0    |     |
| Venkataramana Dispensary.                                | ...                   | 21,637    | ...                       | 143       | ...                                            | 5,495                  | 9 8              | ...                | ...            | 2,709  | 8 9                 | ...               | ...            | ...                        | ...  | 1,883 | 6 1  | 453    | 13 3   | 528   | 4 4    | 5,575  | 0 5    |     |
| Isolation Hospital                                       | 309                   | ...       | 12-29                     | ...       | 9-70                                           | ...                    | ...              | 5,288              | 10 6           | 3,308  | 10 2                | 423               | 14 5           | ...                        | ...  | ...   | ...  | 1,556  | 1 11   | ...   | ...    | 5,288  | 10 6   |     |
| Chintadripet Dispensary                                  | ...                   | 35,214    | ...                       | 262-17    | ...                                            | ...                    | ...              | 4,052              | 13 0           | 2,106  | 1 4                 | ...               | ...            | 1,378                      | 8 7  | ...   | ...  | 647    | 13 11  | ...   | ...    | 4,132  | 7 10   |     |
| Raja Sir Ramaswamy Madalar Maternity Hospital            | 1,229                 | 894       | 21-82                     | 5-29      | 1-13                                           | 2,938                  | 2 2              | 300                | 0 0            | 18,013 | 6 7                 | 3,900             | 1 9            | 3,048                      | 13 6 | 41    | 11 0 | ...    | 3,270  | 10 0  | 10,990 | 4 6    | 21,251 | 8 9 |
| Kalyani Hospital                                         | 573                   | 9,112     | 12-4                      | 25        | 0-9                                            | 10,376                 | 9 0              | ...                | 600            | 0 0    | 7,899               | 5 0               | 993            | 11 6                       | 705  | 5 0   | ...  | ...    | 57     | 6 6   | 697    | 10 2   | 10,354 | 6 2 |
| Sri Kanyaka Parameswari Devasthanam Ayurvedic Dispensary | ...                   | 28,375    | ...                       | 171-09    | ...                                            | 2,761                  | ...              | ...                | 500            | 0 0    | 2,096               | 2 6               | ...            | ...                        | ...  | ...   | 797  | 41 5   | 235    | 3 10  | 131    | 14 3   | 3,261  | 0 0 |

\* European medicines include, X-ray apparatus and fittings.

† Hospital stoppages.

‡ Includes charges for training midwives, Note.--Statistics relating to the Victoria Caste and Gosha Hospital have not been furnished.



### CORPORATION OF MADRAS.

#### Report on the general conditions of the city of Madras with regard to malaria at the end of 1915.

I was in charge of the anti-malaria work in the City of Madras during the calendar year 1915. With a balance of Rs. 1,20,000 only on the 1st April 1915 out of the total Government grant of Rs. 4 lakhs, and with no prospects of any further grants from Government during the continuance of war, it became very necessary to adopt some scheme of retrenchment which, while effecting some real economy, would not, at the same time, interfere materially with the main plan of the anti-malarial campaign, at least so far as it concerned those measures of proven utility which were already in operation. Accordingly the following changes were effected from 1st April 1915.

1. Three Malaria Supervisors instead of four were working since 1st April 1915, and from 13th May 1915, the number was further reduced to two.

2. Six nurses on Rs. 100 per mensem each were retained as against nine on Rs. 200 each per mensem. This was with effect from 8th March 1915.

3. The original 28 gangs of six men and one maistry each, or 168 men and 28 maistries, entertained for tank cleaning and bush-cutting, were reduced to six gangs of ten men and one maistry each, or 60 men and six maistries. So also the number of coolies entertained for petrolising dangerous pools and puddles was reduced to six maistries and 42 coolies.

4. Only one Surveyor was retained out of four that were employed before 1st April 1915.

5. The services of the Sub-Assistant Surgeon who was Laboratory Assistant were dispensed with from 1st March 1915. It was also suggested that the work of investigation may be suspended for the time being; but this work could not altogether be suspended in view of the fact that it formed at once the basis and the test of the success of the anti-malarial measures that were inaugurated from time to time. The details of the staff in 1915 as compared with that in 1914 is shown in detail in Appendix I. After effecting measures of retrenchment mentioned above, the budget estimate of the department for 1915-16 was Rs. 1,43,000 as against Rs. 3 lakhs of 1914-15. I shall return to this subject later in the report.

*Malaria investigation.*—Although the Sub-Assistant Surgeon who was assisting the Special Malaria Officer in the laboratory work was withdrawn, the mosquito and malaria survey could not be stopped, and had to be carried on thereafter. This was conducted directly by me with the help of the laboratory attendant and three mosquito catchers. The work consisted mainly in marking down malarial zones and the breeding grounds of dangerous anophelene mosquitoes in and around these zones; as for example, in certain areas of Mylapore, Purasawakam and Tondiarpet. This was done with a view to undertake energetic



and prompt preventive measures in order to avert or cut short a probable outbreak of malarial fevers. In addition to this routine work of general mosquito and malaria survey, certain special investigations as detailed below were also conducted :—

1. An investigation into the question of " Buckingham Canal as a breeding ground for mosquitoes " was undertaken and a separate report was submitted to the Malaria Board. (Copy enclosed in Appendix 2.)

2. A mosquito survey on the premises of the Madras Club and surroundings was undertaken upon the requisition of the Secretary of the Club and the following letter sent to the President of the Madras Corporation shows the results of this investigation and the recommendations thereupon.

Copy of letter No. 147, M. of 1915, dated 20th August 1915, from the Special Malaria Officer to the President, Corporation of Madras.

"With reference to letter No. L660, dated 30th July 1915, from the Secretary, Madras Club, I have the honour to inform that the ponds and wells within the enclosures of the Madras Club, have been regularly oiled by our staff. During my examination of these places recently I found a few culex larvæ in the ponds and wells within the Club premises, and no anophelene larvæ. But in and near the pond close to the Laundry there were a few tubs holding a little water in which anophelene *Rossii* were found breeding.

"The cess-pits are daily cleaned and are free from mosquito larvæ except in two instances (*a*) near the latrine and (*b*) near the servants' dressing room. On the morning of my inspection I showed the former to a gentleman who, I think, was the Secretary of the Club.

"Besides these there are ponds outside the Club premises in all of which anophelene mosquito larvæ were found. These are for instance :—

1. A pond north of Langham's Hotel.
2. A shallow pond north of 1. and
3. In Lodd Krishnadoss' Bungalow, Royapettah High Road.

"*Remedial measures.*—The ponds in the Madras Club Compound are not of any use and if the Club authorities mind it these can be filled up and this I think is by far the best thing to do. They are kept free from anophelene larvæ by being regularly petrolised by our staff. This is after all a temporary measure and its continuation depends upon the working of this department.

"As regards ponds (1) and (2) outside the compound, these are not very big ones and may be notified for being filled up if you approve of the same.

"No. 3 belonging to Lodd Krishnadoss is a very big and deep one and filling this means something like Rs. 8,000 or Rs. 10,000. I had seen the owner of this and he has promised me to clean it and look after it. I am, however, writing to him about this.

"With regard to wells, either within or outside the enclosures of the Club, I would recommend that the mouths be hermetically sealed in all cases of



disused ones or those in which pumps are already fitted. As for others, the few leaves, etc., floating on the water may be removed and fish introduced.

"The drains require cleaning every day so as not to allow stagnation of water."

It is not known what steps the authorities of the Madras Club have taken in the directions indicated above.

3. The small puddles formed in the bed of a storm water ditch starting at the junction of the Royapettah High Road and Venkatachala Moodali Street, and running eastwards to join the Buckingham Canal afford equally good facilities for the breeding of the anophelene mosquitoes.

4. Cooum River : the investigation into "the Cooum River as a breeding ground for anophelene mosquitoes" was completed during the year and a report on this was submitted to the Malaria Board (Copy enclosed—*Vide* Appendix 3.)

*Mosquito survey and resurvey.*—The mosquito survey and re-survey was completed in the following division :—

*Georgetown.*—Here a large number of domestic and public wells mostly in a neglected state formed very good centres for mosquito life chiefly of anophelene *Stephensii* and a few anophelene *Rossii*.

The old moat within the enclosures of the Salt Depot west of Wall Tax Road.

*Triplicane.*—The following were the chief centres where the anophelene mosquito larvæ were found breeding :—

1. The Government ponds in Chepauk, especially the one near the Agricultural office.
2. The big swamp in, what is called, 'Thimmappa Naick's Garden' to the north of the newly constructed Police Lines in Ice House Road (now being reclaimed.)
3. The marsh near the Mortuary in Ice House Road (now reclaimed and dry).
4. Elephant tank. (Prince of Arcot) in Barber's Bridge Road (now reclaimed).
5. Few domestic wells.

*Chintadripet.*—1. The puddles and swamps formed in the bed of the Cooum River and also along the moss covered edges of the water channel.

2. Domestic wells, again.

*Mylapore.*—1. Disused garden wells and ponds.

2. Marshy low grounds in Edward Elliot's Road and Royapettah High Road during the monsoons.

*Re-survey.*—A re-survey of all tanks, ponds and disused wells in Tondiarpet, Pursawakam and Mylapore was undertaken and completed during the year under review.

*Mosquito survey.*—Anophelene *Stephensii* is the chief well breeder whereas *Rossii* is the most common species distributed in other collections of water.



*Anophele listoni* were found breeding in certain garden wells in Tondiarpet and Mylapore. The chief malaria carriers found are *Anophele Culcifacies* and *Anophele Fuliginosus*. *Anophele Barbarostris* is found to breed in a few shady ponds covered with weeds and moss. *Anophele Ludlowi* and *Jamesii* are much rarer varieties and the latter were found breeding in the Buckingham Canal to the west of the Barber's Bridge.

*Malaria Survey—Random Sampling.*—Captain Hodgson, I.M.S., before he was relieved of his duties here had carried out an examination of spleen in children in different parts of the city and as many as 358,35 children had been examined. This was done with a view to determine the worst affected parts of the city, and he had then submitted a report on the same. A combined and simultaneous survey of spleen index and parasite rates was undertaken by me with a view that it may serve as a guide for conducting anti-malarial operations urgently needed in certain parts of the City infected with malarial fevers. For this as many children as were available in a selected locality were examined for enlargement of the spleen and at the same time a blood smear was taken from the finger of each child and examined for malaria parasites. Of course, the number of children available for such a simultaneous survey is very much less than that available for a mere spleen survey, as the fear of a pin prick, though harmless and practically painless, scares away a good many cases.

The examination was conducted in certain selected localities in the midst of or in close proximity to marshy tracts and inhabited by the poorer classes of people, who would be more likely than others to be unhealthy generally, and also from a malarial standpoint. The following table gives details of investigation in this direction done during the year under review :—

| Division. | Place.                                         | Number examined for enlarged spleen. | Number with enlarged spleen. | Per cent. | Number of blood smears taken. | Number infected. | Per cent. |
|-----------|------------------------------------------------|--------------------------------------|------------------------------|-----------|-------------------------------|------------------|-----------|
| 1         | Flag Staff Street ...                          | 21                                   | 1                            | 4.7       | 21                            | 4                | 19.4      |
| 1         | Kasimode Kuppam ...                            | 38                                   | 5                            | 13.2      | 38                            | 2                | 5.3       |
| 1         | Palm Kuppam ...                                | 35                                   | 4                            | 11.4      | 35                            | 3                | 8.6       |
| 2         | Near Old Fiji Depot Paracheri ...              | 40                                   | 19                           | 47.5      | 40                            | 5                | 12.5      |
| 11        | Ponnan Paracheri ...                           | 38                                   | 5                            | 13.2      | 36                            | 4                | 11.1      |
| 11        | Vettian Paracherri ...                         | 22                                   | 3                            | 13.6      | 22                            | 1                | 4.5       |
| 11        | Ottary Ubrapalayam ...                         | 49                                   | 5                            | 10.2      | 45                            | 3                | 6.7       |
| 11        | Graman Paracherri ...                          | 47                                   | 8                            | 17.0      | 45                            | 9                | 20.0      |
| 11        | Seman Paracherri ...                           | 38                                   | 2                            | 5.3       | 38                            | 1                | 2.6       |
| 11        | Flowers Road ...                               | 41                                   | 1                            | 2.4       | 41                            | 1                | 2.4       |
| 11        | Madavakam Tank Road ...                        | 21                                   | 3                            | 14.3      | 21                            | 1                | 4.8       |
| 11        | Ubrapalayam ...                                | 42                                   | 3                            | 7.1       | 42                            | ...              | ...       |
| 11        | Cooum Cherry ...                               | 37                                   | 4                            | 10.8      | 37                            | 4                | 10.8      |
| 11        | Yemi Cherry ...                                | 30                                   | 1                            | 3.3       | 30                            | ...              | ...       |
| 11        | Graems' Cherry ...                             | 40                                   | 2                            | 5.0       | 40                            | 1                | 2.5       |
| 13        | Swami Perumal Reddy Street, in Paracherri. ... | 44                                   | 1                            | 2.3       | 43                            | 3                | 7.0       |
|           | Total ...                                      | 583                                  | 67                           | 11.5      | 574                           | 42               | 7.3       |



These figures show that these tracts are undoubtedly malarious and measures have to be taken to render them healthier. But it has to be noted at the same time that these figures are nothing so high as those obtained in such malarial tracts as Ennore where the splenic index and parasite rate went up as high as 98 per cent. and 45 per cent., respectively.

*Dispensary Statistics.*—The Sub-Assistant Surgeons in charge of three malaria dispensaries were asked to send as many blood smears as possible from patients who resort to them for treatment for fever. This was done with the following objects :—

1. To gauge the extent of the actual prevalence of malarial fevers in any locality.
2. To discover any sudden rise in the incidence of malaria in places where malaria is more or less epidemic.
3. To find out the nature of the infection prevailing during a given season or quarter.

The details of this work are tabulated as under :—

| Dispensary.              |     |     |     | Total Number<br>of blood smears<br>examined. | Number<br>infected. | Per cent. |
|--------------------------|-----|-----|-----|----------------------------------------------|---------------------|-----------|
| 1st Dispensary, Dhobipet | ... | ... | ... | 16                                           | 2                   | 12.5      |
| 2nd „ Washermanpet       | ... | ... | ... | 29                                           | 9                   | 31.3      |
| 3rd „ Royapuram          | ... | ... | ... | 285                                          | 115                 | 40.3      |
| 4th „ Purasawakam        | ... | ... | ... | 246                                          | 123                 | 50.0      |
| Total                    |     |     |     | 576                                          | 249                 | 43.2      |

| Dispensary.    |     |     | April. | May. | June. | July. | Aug. | Sep. | Oct. | Nov. | Dec. |
|----------------|-----|-----|--------|------|-------|-------|------|------|------|------|------|
|                |     |     | B.T.   | M.T. | Q.    | B.T.  | M.T. | Q.   | B.T. | M.T. | Q.   |
| 1st Dispensary | ... | ... | ...    | ...  | ...   | ...   | ...  | ..   | 1    | 1    | ...  |
| 2nd „          | ... | ... | 2      | 1    | ...   | 2     | 2    | ...  | 2    | ...  | ...  |
| 3rd „          | ... | ... | 6      | 3    | ...   | 28    | 1    | ...  | 65   | 10   | ...  |
| 4th „          | ... | ... | 4      | ...  | 2     | 16    | 2    | ...  | 85   | 12   | 3    |
| Total          |     |     | 12     | 4    | 2     | 46    | 5    | ...  | 153  | 23   | 3    |

From the above table it may be seen that benign tertian infection is more common one in Madras than other varieties, although in winter months there is a slight increase of the sub-tertian. In this connection it is to be noted



that these blood smears unlike those in random sampling, were obtained from those who happened to be suffering from fever and who resorted to the dispensaries for treatment. This examination was of great help in our anti-malarial campaign; for, as soon as signs of increased fevers were forthcoming, necessary measures were at once taken to cut short what might have otherwise flared into an epidemic. Thus in Purasawakan there was a rise of fevers during the quarter ending with September 1915 and the examination of blood smears as stated above, gave us the clue to our work.

Again in March 1915 there was rise in fevers and fever mortality in a small Paracherri in Cochrane Basin Road (called Mulakuthalam) surrounded all round by the Railway borrow pits and pits formed by excavation of earth, close to dwelling huts and holding water, in which numbers of anophelene mosquitoes were found breeding. All breeding places were regularly attended to and systematic quininising was taken on hand. In two or three weeks the sharp outbreak ended.

Again in 2nd Division (or Washermanpet) fevers were found on the increase in the weavers' quarters in the months of October and November 1915 and an examination of the area revealed that in a number of dye-pots, (earthenware pots buried in the ground flush with the ground level) allowed to hold water and left stagnating, large numbers of anophelene *Stephensii* were found breeding. So, these were regularly petrolised until we were able to get them filled up or covered hermetically. Very soon after, the long-continued outbreak of malaria here came to an end.

*Dissection of mosquitoes.*—Adult mosquitoes were caught from dwelling places and the known Malaria carriers were dissected in the Laboratory for purposes of examination of the malaria parasite. In all cases the salivary glands were exposed and examined but in not a single one of them were any sporozoits found. The following table gives details :—

| Quarter.   | No. caught | An. Rossii. | No. Dissected | Culicifacies. | Listoni. | Fuliginosus. | An. Stephensii. |
|------------|------------|-------------|---------------|---------------|----------|--------------|-----------------|
| 1st. ...   | 293        | 258         | 35            | 33            | ...      | 1            | 1               |
| 2nd. ...   | 619        | 596         | 23            | 21            | 1        | 1            | ...             |
| 3rd. ...   | 401        | 373         | 28            | 5             | 1        | 1            | 21              |
| 4th. ...   | 596        | 505         | 91            | 73            | 16       | 1            | 1               |
| Total. ... | 1909       | 1732        | 177           | 132           | 18       | 4            | 23              |

*Anti-malarial measures.*—The usual preventive operations undertaken by the Department are as follows :—

1. Cleaning of tanks, ponds and wells.
2. Petrolising.
3. Clearing rank vegetation.



4. Introduction of larvicidal fish and ducks.
5. Reclamation.
6. Drainage.
7. Quinisation.

These measures were mainly confined to the three known malarial zones in Madras, namely, Tondiarpet, (including 1st, 2nd and 3rd Divisions), Mylapore (including Royapettah 19th Division and part of Triplicane, 18th Division) and Purasawakam (including Choolai and Vepery and part of Perambur Division).

*Cleaning of tanks and ponds.*—Those tanks and ponds which are not used for purposes of irrigation and which, being mostly small and shallow and always covered with weeds, form very good breeding grounds for anophelene mosquitoes are marked out and prophylactic measures as are suitable to each particular case adopted. Our effort is at present to clean and improve these bad places rather than to deal with them in a radical manner.

In my report for the year 1914 I stated that all tanks in Mylapore and Purasawakam were cleaned once and those in Tondiarpet thrice. The majority of these had however to be cleaned again as often as 3 times and in some instances as often as 5 or 6 times during the year 1915.

In addition, the cleaning of as many as 92 tanks in different parts of Madras for the first time had to be taken up either at the request of the owners or at our own instance. Thus 416 tanks were re-cleaned in all, as shown below :—

|             |     |     |            |     |   |
|-------------|-----|-----|------------|-----|---|
| Tondiarpet  | ... | 325 | Georgetown | ... | 2 |
| Purasawakam | ... | 26  | Triplicane | ... | 4 |
|             |     |     | Vepery     | ... | 8 |
| Mylapore    | ... | 50  | Perambur   | ... | 1 |

In appendix 7 is given the details showing the number of times each tank was cleaned.

It is sometimes said that after the 1st, 2nd or 3rd cleanings it would be enough to clean the tanks once in three months. This appears to be too long an interval especially in summer ; and so far as tanks in Madras are concerned, it would perhaps be more correct to say that they require cleaning on an average once in 6 or 8 weeks. Of course this necessarily means a lot of recurring expenditure to the Corporation ; but, as a means of lightening the burden, may be considered the advisability of taxing the land owner for cleaning the tanks and ponds in his holdings. Captain Hodgson, I.M.S., in his report on "Some deductions from the vital statistics of the Madras City from 1893-1914" suggested that the Municipality should charge a license fee for each tank and be responsible for keeping the tank in proper condition and that the staff to clean the tanks be paid from out of this collection. But it is doubtful if the Corporation can undertake this step in the present circumstances. Attempts were made to clean tanks after notification under the Municipal Act but this necessarily involved resorting to legal steps and the cleaning by the Corporation at owner's cost. And again it was not possible to collect monies spent on this behalf unless through a Civil Court. For all these reasons there were long



delays and cleaning of tanks could not be done promptly, and therefore the Corporation have at present undertaken this task free of charge to the owners of the tanks and ponds.

Cleaning and re-cleaning appear to be most promising and effective of all anti-malarial measures, save, of course, those measures of proven utility, such as, reclamation and drainage. Attention, however, is to be paid to cleaning the pond or tank so as to get rid of all weeds, leaves, grass, etc., and to allow free access of sunlight and air. To this latter effect the overhanging branches of trees and shrubs growing along the bund and the slopes of a tank must be thoroughly cleared. Although it is a measure that requires constant attention, yet, if carried out well, it is sure and effective in its results. The mosquito larvæ cannot thrive where they are not protected from direct sunlight, as, for example, in tanks cleared of weeds and such other growths that shelter the larvæ from the sun ; neither do they thrive where they are exposed to enemies like fish.

Unfortunately it happens too often that tanks, etc., are not properly looked after ; for, so long as it continues to subserve its chief purpose of irrigating a garden or other agricultural land the owners of those lands (who are mostly non-resident,) do not seem to be yet alive to the danger of such tanks to residents round about. Thus we are obliged to have recourse to certain measures of temporary utility such as petrolising, or using some other larvicidal agent.

*Petrolising.*—In the beginning of our work it was of great importance to stop mosquito breeding anyhow, and that promptly. Measures like filling or reclaiming and even cleaning, though all very effective would all mean time ; whereas petrolising though temporary, was prompt ; hence it was that petrolising was conducted on a far larger scale than at present.

Yet petrolising work could not be stopped altogether ; for, soon after the monsoons a large number of puddles and pools are formed which, though temporary, are yet dangerous breeding grounds. As it is impracticable at present to prevent the formation of such temporary puddles and pools, the only remedy lies in making them innocuous from a malarial stand-point by petrolising them and thus keeping them free from mosquito larvæ. In the last three months of 1915 as many as 510 places in Tondiarpet, 440 in Mylapore and Triplicane and 280 in Purasawakam were petrolised weekly ; and this number included some ponds, wells and a large number of cess-pools. Some of the chief localities where such pools and puddles are formed are—

1. Government House compound.
2. Marshy land near the Government Record Office.
3. Madavakam Tank.
4. Spur Tank.
5. Land to the north of the College for Women (now being reclaimed).
6. Land to the west of the office of the Inspector-General of Police.
7. Otary Nullah.
8. Storm water drain in Royapettah.
9. Portions of Buckingham Canal.
10. Portions of Cooum River.



It has to be mentioned in this connection that petrolising was found necessary in those cases where the water was found unused and stagnating, while in the case of ponds and wells which are in constant use and which tap a perennial source of water supply as in irrigating tanks and wells in the various parts of the city, cleaning seems to ensure greater success as an anti-malarial measure. For one thing petrolising is objected to, because of its supposed deleterious effect on vegetable growth, and because the water surface gets coated with an oily scum, making the surface unsightly and the water unfit for human consumption. As is well-known, mosquitoes can rarely or never breed in places where the surface of water is kept absolutely free from weeds, grass and other vegetation and is freely exposed to the rays of the sun.

*Bush cutting.*—This is more in the nature of a sanitary measure intended to remove resting places of the mosquito before it is able to get access to the human dwellings. Areas of 1,16,160 sq. feet of ground in Tondiarpet, and 6,52,482 sq. ft. in Mylapore were so treated. But to pursue this measure with any appreciable success means an employment of a very large number of hands which neither the malaria grant nor the Corporation can afford. It is desirable that each householder should keep his compound and back-yard clean and free from such rank vegetation. Conformably to a communication received from the Director of Agriculture concerning the great danger caused to agriculture from the wild growth of water hyacinth, an attempt has been made to clear these wherever found in our areas of work. Clearing was done in a square area of 98,835 sq. ft.

4. (a) *Introduction of Larvicidal fish*:—A report on the utility of certain kinds of small fish as larvicides, was submitted to the Malaria Board along with the report on the anti-malarial operations for the 1st quarter of 1915. (Copy enclosed in Appendix '4'). The tanks and ponds existing for years in the midst of a large number of cocoanut gardens and bungalow compounds required no special introduction of fish as they were thriving there already. We were concerned chiefly with wells, domestic or public, especially in parts of Georgetown and Tondiarpet, where these wells were found to afford excellent facilities for the life of the anophelene *Stephensii*. In the early days of our work the methods adopted were either to cover the mouth of a well hermetically with or without a pump, or to completely fill them up. The great opposition to and unpopularity of the measure were, reasons why the letting in of certain larvicidal fish, reported to have been effective in certain other malarial tracts, was started in 1913-14, as an experimental measure. As it was soon found that this was not only a promising measure but also a popular one it was carried on a wider and more extended scale so that as many as 16,063 wells have in all been so treated up to the end of December 1915.

But here again we had to encounter another difficulty. In some cases, especially where the wells are filthy and disused, the fish thus introduced died out very soon and it required careful watching of every well from time to time to see that the fish put in continued to live and thrive. It was, therefore found necessary that, as the work of fish introduction was pushed on in one part of the city, a survey of the wells, where fish were previously let in, should be conducted in certain other parts. The object of this survey was twofold, firstly to



mark the wells that were rendered fishless; and secondly to discover if those wells, where fish were alive, were rendered innocuous. In those wells where fish were dead they were re-introduced and the results were all mapped out for future reference. From what has been said it is obvious that this is a measure which requires constant attention and supervision.

Re-survey of wells stocked with larvicidal fish during the year 1915, disclosed the following :—

|                                                |       |         | per cent. |
|------------------------------------------------|-------|---------|-----------|
| Number of wells examined ...                   | ...   | 5,810   |           |
| Do of wells in which fish were found alive ... | 5,420 | or 93.2 |           |
| Do in which fish were dead ...                 | 390   | 6.7     |           |
| Do in which mosquito larvæ were found ...      | 438   | 7.5     |           |

From the above it is seen that (1) fish continue to breed in a large proportion of wells; (2) mosquito larvae are found in very few ones and (3) in these cases the fish are found invariably to have died.

*Introduction of ducks.*—At the suggestion of the Hon'ble Surgeon-General and Sanitary Commissioner, experiments have been undertaken to test the efficacy of ducks as larvicides. This experiment was based upon the successful results obtained in America where 'wild ducks'—"mallard"—were the birds used. I consulted Dr. Henderson, Superintendent, Government Museum, regarding this, and I was informed by him that these birds are exotic in Southern India and only migrate occasionally to parts of north-western India during winter. Further they are difficult of control and maintenance. He therefore advised me to experiment with domestic ducks, which are tame birds and easily obtained in any market. It was therefore suggested that the common domestic ducks be selected, and with the approval of the Sanitary Commissioner for the Government of Madras and the President of the Madras Corporation, experiments were commenced with a dozen of these birds. Moreover in view of the fact that Professor Geddes, during his last visit to Madras, laid stress on this aspect of the anti-malaria problem, it was thought desirable to try and know how far these ducks were useful as larvicidal agents in Madras. The experiment was started on 29th November 1915 and is being continued still; but, thus far the results are not encouraging. Certain ponds free from all fish but full of anophelene larvæ are selected and ducks are left there all day long, no food being supplied to them, except once at about 7 in the evening. It is noticed that the larvae flourish in spite of the presence of these hungry ducks.

Two gentlemen in Mylapore had introduced ducks in their ponds; but during my examination of these places larvæ were found thriving very well. This experiment is being continued and the results being noted, although it must be confessed that the results are so far not promising. Moreover, as Dr. Henderson well observed in an interview I had with him, it is very fallacious to presume that experiments conducted under artificial conditions yield the same results when they are repeated under natural conditions. For example, it is quite true, that when ducks are confined in an artificial tank and mosquito larvæ are let in there, the latter are eaten up by the former. Perhaps, under the circumstances ducks



have no option; either they must devour the mosquito larvæ or else die of starvation. But what is important for our purpose is, to know whether, in natural tanks under natural conditions, ducks take any note of the lowly larvae when they can feed themselves on bigger and more substantial prey. It is often found that large sized fish are not of much use as larvicidal agents; because they prefer to feed themselves on organisms which are comparatively much larger than mosquito larvæ, such as small fish, etc. If therefore ducks also follow the same policy as the fish in letting mosquito larvæ severely alone when bigger and more substantial prey is available, the results are not surprising.

*Reclamation.*—Table A gives details of earth-work, &c., done under the supervision of the Special Malaria Department for the year 1915.

TABLE A.—

| Serial No. | Division. | Nature of place. | Owner.                                  | Quantity of earth-work. | Cost. |    |    |
|------------|-----------|------------------|-----------------------------------------|-------------------------|-------|----|----|
|            |           |                  |                                         | Cubic feet.             | Rs.   | A. | P. |
| 1          | 2         | Tank             | Chinnammal                              | 45,864                  | 1,047 | 3  | 11 |
| 2          | "         | "                | Abboo Pillai                            | 42,904                  | 941   | 5  | 9  |
| 3          | "         | "                | Rajoo Gramany                           | 13,818                  | 342   | 14 | 5  |
| 4          | "         | "                | Perumall Gramany                        | 2,842                   | 216   | 13 | 1  |
| 5          | "         | "                | Ratnasabhpathy                          | 6,000                   | 471   | 11 | 0  |
| 6          | "         | "                | Madras Corporation                      | 57,000                  | 347   | 0  | 0  |
| 7          | "         | "                | Thygaroya Chetty                        | 31,572                  | 332   | 7  | 4  |
| 8          | "         | "                | Pakkam Abboo Chetty                     | 30,000                  | 482   | 8  | 0  |
| 9          | "         | "                | Madras Corporation                      | 72,000                  | 414   | 9  | 4  |
| 10         | "         | Well             | do                                      | 2,800                   | 33    | 0  | 8  |
| 11         | "         | Tank             | do                                      | 1,34,400                | 944   | 14 | 8  |
| 12         | "         | "                | do                                      | 1,53,435                | 1,976 | 0  | 8  |
| 13         | "         | Pit              | Mopurapah                               | 500                     | 15    | 8  | 9  |
| 14         | 3         | Pits and a well  | Madras Corporation                      | 1,372                   | 6     | 13 | 4  |
| 15         | "         | 2 Wells          | Inspector Salt Abkari and Customs Dept. | 2,000                   | 102   | 15 | 0  |
| 16         | "         | Tank             | V. S. Krishnaswamy Iyer                 | 13,060                  | 52    | 8  | 0  |
| 17         | 11        | Lowground        | Arumugham Pillay                        | 30,253                  | 422   | 9  | 7  |
| 18         | "         | Tank             | Municipal Land Sepoy lines.             | 1,12,100                | 3,121 | 13 | 2  |
| 19         | "         | Pond             | FathimaBeeShiek Tippu Sahib             | 17,200                  | 342   | 2  | 8  |
| 20         | "         | Lowland          | Gangadeshwar Temple land.               | 33,700                  | 722   | 6  | 0  |
| 21         | "         | Pit              | Nagarathnammal                          | 1,700                   | 24    | 6  | 11 |
| 22         | "         | Pond             | Padmanabha Mudaliar                     | 17,715                  | 161   | 8  | 0  |
| 23         | "         | Tank             | M. M. Ispahani and Sons                 | 40,328                  | 913   | 3  | 3  |
| 24         | 19        | "                | Mary Subramaniam                        | 1,31,640                | 3,273 | 7  | 3  |
| 25         | "         | Lowland          | Thirunaraynachari                       | 7,245                   | 139   | 0  | 9  |
| 26         | "         | Pit              | Muhammad Ali Shah                       | 8,505                   | 171   | 15 | 9  |
| 27         | "         | Tank             | Gafoor Gafoor Unnissa                   | 37,800                  | 528   | 11 | 0  |
|            |           |                  | Begum Sahiba                            |                         |       |    |    |
| 28         | "         | Pits             | Govindachary                            | 13,890                  | 82    | 12 | 2  |
| 29         | "         | Low land         | Ramachandra Iyer                        | 23,200                  | 289   | 6  | 0  |
| 30         | "         | "                | G. Sreenivasachary                      | 10,440                  | 143   | 8  | 9  |
| 31         | "         | Ponds & lowland  | B. Singarababu                          | 23,200                  | 463   | 13 | 0  |
| 32         | "         | Pond             | T. Sadashiva Iyer                       | 14,355                  | 331   | 5  | 6  |
| 33         | "         | Low land         | S. Gopalachary                          | 5,000                   | 76    | 8  | 6  |
| 34         | "         | Tank             | E. R. Sreenivasachary                   | 1,20,800                | 2,300 | 3  | 7  |
| 35         | "         | Pond             | Sree Parthasarathy Swami Temple         | 31,000                  | 186   | 10 | 1  |
| 36         | "         | "                | Janaki Ammal                            | 2,800                   | 48    | 4  | 4  |
| 37         | "         | Lowland          | Swami Sharvanam                         | 4,800                   | 72    | 6  | 3  |
| 38         | "         | Tank             | Prince of Arcot                         | Work progressing.       |       |    |    |
| 39         | "         | Lowland          | V. S. Ratnam                            | 1,900                   | 51    | 14 | 2  |
| 40         | "         | "                | Krishnaswamy Ayer                       | 1,300                   | 21    | 10 | 2  |
| 41         | "         | "                | Sreenivasa Iyengar                      | 4,800                   | 77    | 2  | 8  |



Table 'B' shows the list of places reclaimed by the owners themselves after notification and prosecution where necessary.

TABLE B:—

| Serial No. | Division. | Nature of place. | Owner.                                   | Action taken by Special Malaria Dept. | Result.                                |
|------------|-----------|------------------|------------------------------------------|---------------------------------------|----------------------------------------|
| 1          | 1         | Tank             | Chidambara Iyer                          | Notified                              | Filled up                              |
| 2          | 2         | Lowland          | Mopurappah                               | Letter                                | do                                     |
| 3          | 2         | Well             | Government Salt Depot                    | do                                    | do                                     |
| 4          | 2         | Wells            | Do                                       | do                                    | Covered with cement top and trap door. |
| 5          | 2         | Tank             | P. L. Palaniappa Chetty                  | Prosecuted and prosecution withdrawn. | Filled up.                             |
| 6          | 2         | Do               | Oomer Sait                               | do                                    | do                                     |
| 7          | 2         | Do               | O. Narayanaya                            | Notified.                             | do                                     |
| 8          | 3         | Do               | Krishnaswamy Iyengar                     | do                                    | do                                     |
| 9          | 3         | Two wells        | Saravana Mudali and Krishna-swami Mudali | do                                    | Covered                                |
| 10         | 3         | Pits             | Do                                       | do                                    | Filled                                 |
| 11         | 3         | One well         | Munuram Pandia                           | do                                    | do                                     |
| 12         | 3         | Well             | Sreenivasa Mudali                        | ...                                   | Covered with Cuddappah slabs.          |
| 13         | 10        | Well             | Jamal Mohideen Sahib                     | Notified.                             | Filled up                              |
| 14         | 10        | Pits             | Hyduri Gardens                           | do                                    | do                                     |
| 15         | 10        | Do               | Raghavelu Naidu                          | Prosecuted and fined                  | do                                     |
| 16         | 11        | Well             | Kundappa Mudali                          | ...                                   | Covered with Cudappah slabs.           |
| 17         | 11        | Pits             | Venkitapathi Naidu                       | ...                                   | Filled up                              |
| 18         | 11        | Do               | Mooljee Jaithee                          | Notified                              | do                                     |
| 19         | 11        | One well         | T. Rangachari                            | By letter                             | Covered.                               |
| 20         | 11        | Well             | Muthia Pillai                            | Prosecuted and fined                  | Filled up                              |
| 21         | 11        | Pit              | Soory Bhan                               | Notified                              | do                                     |
| 22         | 11        | Do               | Arumugha Naicker                         | do                                    | do                                     |
| 23         | 11        | Two pits         | Eswariah                                 | do                                    | do                                     |
| 24         | 12        | Well             | Govinda Chetty                           | ...                                   | Covered.                               |
| 25         | 12        | Pits             | Venkitapathi Naidu                       | Notified                              | Filled up                              |
| 26         | 12        | Pit              | Subramani Iyer                           | Prosecuted, prosecution withdrawn     | do                                     |

| Serial No. | Division. | Nature of place. | Owner.                                      | Action taken by Special Malaria Dept. | Result.                      |
|------------|-----------|------------------|---------------------------------------------|---------------------------------------|------------------------------|
| 27         | 13        | Well             | Arumugam Chetty ...                         | Prosecuted and fined                  | Covered.                     |
| 28         | 13        | Pit              | Ethirajulu Naidu ...                        | Notified                              | Filled up                    |
| 29         | 13        | Do               | Sundarabhashyam Naidu ...                   | do                                    | do                           |
| 30         | 13        | One well         | Amratha Ammal ...                           | ...                                   | Covered with Cudappah slabs. |
| 31         | 14        | One pond         | Appaswami Mudaliar ...                      | do                                    | Filled up                    |
| 32         | 19        | Pits             | Dr. Subramania Iyer ...                     | Letter                                | do                           |
| 33         | 19        | Well             | Dhanakoti Ammal ...                         | Notified                              | do                           |
| 34         | 19        | Pits             | Subramania Iyer ...                         | ...                                   | do                           |
| 35         | 19        | Well             | Appavoo Mudali ...                          | ...                                   | do                           |
| 36         | 19        | Tank             | Parvathi Ammal and Munuswami Mudali ...     | Prosecuted                            | do                           |
| 37         | 19        | Two pits         | Dewan Bahadur L. A. Govindaraghava Iyer ... | ...                                   | do                           |
| 38         | 19        | Lowland          | Dewan Bahadur Krishnaswamy Iyer ...         | Notified                              | do                           |
| 39         | 19        | Do               | Batcha Garden ...                           | ...                                   | do                           |
| 40         | 19        | Tank             | Vishwanatha Mudali ...                      | ...                                   | do                           |
| 41         | 19        | Three pits       | Begum Sahib's Garden ...                    | ...                                   | do                           |
| 42         | 19        | Do               | Sayed Khader Batcha Sahib ...               | ...                                   | do                           |
| 43         | 19        | Two pits         | Mrs. A. Firth ...                           | Notified                              | do                           |
| 44         | 19        | Five pits        | Bhojammal ...                               | do                                    | do                           |
| 45         | 19        | One pit          | Krishnaswami Naicker ...                    | Prosecuted and fined                  | do                           |
| 46         | 19        | Do               | Chitti Babu Naidu ...                       | Notified                              | do                           |
| 47         | 19        | Two pits         | Naseeruddin Sahib ...                       | do                                    | do                           |
| 48         | 19        | Do               | Abdullah Sahib ...                          | do                                    | do                           |
| 49         | 19        | Lowland          | Amirunisa Begum Sahiba ...                  | do                                    | do                           |
| 50         | 19        | One pit          | Rev. J. S. M. Hooper ...                    | do                                    | do                           |
| 51         | 19        | Two wells        | Trustees of Pachaiyappa's Charities.        | do                                    | do                           |
| 52         | 19        | One well         | Guruswamy Gramany ...                       | do                                    | do                           |
| 53         | 19        | One pit          | Sab Jan Sahib ...                           | Prosecuted and prosecution withdrawn. | do                           |



The following is a list of cases that sent in an appeal to the Standing Committee of the Corporation against the action taken by this Department:—

TABLE C.

| No. | Owner's Name.                                                        | Appeal.                                                                                                                                                              | President's Order.                                           | Standing Committee's Decision.                                                                                                                                                                                       |
|-----|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Pankajammal.                                                         | Requesting to retain a well in No. 4, Mannaraswami Coil Street, Royapuram.                                                                                           | .....                                                        | No further action, as the well is cleaned and fish being introduced.                                                                                                                                                 |
| 2   | C. Sreenivasa Nayagar, Secretary to Anandashrama Sadhu Maha Sangham. | Requesting to retain the tank in 4/5, Vedavinayagar, Perambur Barracks Road.                                                                                         | If decided to close to come to an agreement with the Sangham | Once deferred and the Special Malaria Officer was requested to suggest methods for cleaning the tank. The tank was neither cleaned nor filled up. Again went to S. C. who resolved that the question may be dropped. |
| 3   | Trustees of Gangadeshwar Temple.                                     | Requesting that the cost of filling up the lowland belonging to the temple for which a decree for Rs. 1,950-12-2 has been obtained, may be borne by the Corporation. | Cost to be borne by the temple ...                           | The request cannot be complied with. President's order confirmed.                                                                                                                                                    |
| 4   | Mirza Gulam Hussain Saib and two others.                             | Request to grant them permission to retain the tank in the 'Sirdar Jung's garden.'                                                                                   | To be filled up ...                                          | Appeal rejected and the President's order confirmed. Failed to fill up. The case is pending.                                                                                                                         |
| 5   | Doraiswamy Pillai.                                                   | Appeal to retain the tank in Suryanarayana Chetty Street.                                                                                                            | To be filled up ...                                          | Appeal rejected and the President's order confirmed.                                                                                                                                                                 |
| 6   | Andalammal ...                                                       | Appeal to retain the tank in Kalathiappa Mudali Street.                                                                                                              | To be filled up and the party to pay Rs. 100.                | Appeal was rejected and the party was asked to pay Rs. 100.                                                                                                                                                          |
| 7   | Rajoo Mudali.                                                        | Appeal stating his inability to pay Rs. 200 to fill up a pond in Ammen Coil Street.                                                                                  | To pay Rs. 200 towards filling.                              | President's order confirmed and the party to pay in instalments.                                                                                                                                                     |
| 8   | Seevaram Kakamma.                                                    | Appeal to retain the tank in 'Rama Bhavan' Gangadeshwar Coil Road.                                                                                                   | To be filled up ...                                          | S. C. resolved that the tank may be retained according to conditions laid down by Special Malaria Officer failing which owner will be prosecuted.                                                                    |
| 9   | T. Singaravelu Gramany.                                              | Appeal to retain a pond in Suryanarayana Chetty Street.                                                                                                              | To fill up ...                                               | President's order confirmed and appeal rejected.                                                                                                                                                                     |

Table 'D' shows the list of places cleaned by the owners themselves when they were served with notices to fill it up :—

TABLE D.

| Serial No. | Division. | Owner.                          | Nature of the place and work done.  |
|------------|-----------|---------------------------------|-------------------------------------|
| 1          | 2         | Murugesu Pillay                 | ... Well cleaned.                   |
| 2          | 2         | P. L. P. L. Palaniappa Chettiar | .. Do                               |
| 3          | 8         | Vedachela Mudali                | ... Do                              |
| 4          | 11        | Trustees of Vigneswara Coil     | ... Tank cleaned.                   |
| 5          | 13        | Maitland High Road              | ... Well repaired and cleaned.      |
| 6          | 17        | Lodd Govindoss Krishnadoss      | ... Tank cleaned.                   |
| 7          | 19        | Rajoo Gramany                   | ... Two wells repaired and cleaned. |
| 8          | 19        | Abi Bullah Sahib                | ... Tank cleaned.                   |
| 9          | 19        | Abdul Hussain                   | ... Well repaired and cleaned.      |
| 10         | 19        | Mrs. A. Firth                   | ... Well cleaned.                   |
| 11         | 19        | Krishnaswamy Naicker            | ... Two wells cleaned.              |
| 12         | 19        | Naseeruddin Sahib               | ... One well cleaned.               |
| 13         | 19        | Ramaswamy Chetty                | ... Well repaired and cleaned.      |



In table 'E' given below is shown the amounts recovered from private owners towards the cost of work done departmentally on their behalf.

TABLE E.

| No. | Name of the owner.                  | Estimated cost. |       | Cost incurred by the Corporation. |       |       | Cost charged. |       |       | Cost recovered.                                                                                                 |  |  | Remarks. |
|-----|-------------------------------------|-----------------|-------|-----------------------------------|-------|-------|---------------|-------|-------|-----------------------------------------------------------------------------------------------------------------|--|--|----------|
|     |                                     | Rs.             | A. P. | Rs.                               | A. P. | Rs.   | A. P.         | Rs.   | A. P. |                                                                                                                 |  |  |          |
| 1   | Rajoo Gramany ...                   | 400             | 0 0   | 342                               | 14 5  | 342   | 14 5          | 342   | 14 5  | President has shown concession on appeal.                                                                       |  |  |          |
| 2   | Rathnasabhpathy...                  | 2,223           | 4 6   | 471                               | 11 0  | 200   | 0 0           | 200   | 0 0   |                                                                                                                 |  |  |          |
| 3   | Mopurappah ...                      | ...             | ..... | 15                                | 8 9   | 15    | 8 9           | 15    | 8 9   | S. C. has shown concession on appeal.                                                                           |  |  |          |
| 4   | V. S. Krishnaswamy Iyer ...         | 0               | 0 0   | 52                                | 8 0   | 52    | 8 0           | 52    | 8 0   |                                                                                                                 |  |  |          |
| 5   | Arumugam Pillai ...                 | 600             | 0 0   | 422                               | 9 7   | 140   | 13 10         | 140   | 13 10 |                                                                                                                 |  |  |          |
| 6   | Fathima Bee, Sheik Tippu Sahib ...  | ...             | ..... | 342                               | 2 8   | 342   | 2 8           | 54    | 0 0   | Undertaken on contract by the Corporation in view of the marshy land in the midst of a very unhealthy locality. |  |  |          |
| 7   | Padmanabha Mudaliar ...             | 100             | 0 0   | 161                               | 8 0   | 50    | 0 0           | 50    | 0 0   | Concession shown by the Special Malaria Officer.                                                                |  |  |          |
| 8   | M. Isphani & Sons.                  | 500             | 0 0   | 913                               | 3 3   | 500   | 0 0           | 500   | 0 0   | Contract undertaken by the Dept.                                                                                |  |  |          |
| 9   | Mary Subramaniam.                   | ...             | ..... | 3,273                             | 7 3   | 2,996 | 1 7           | 1,996 | 1 7   | Demand decreased on appeal.                                                                                     |  |  |          |
| 10  | Thirunarayanachari ...              | ...             | ..... | 137                               | 0 9   | 135   | 0 9           | 185   | 0 9   | Papers are with the Vakil for recovering the balance amount.                                                    |  |  |          |
| 11  | Govindachary ...                    | ...             | ..... | 82                                | 12 2  | 82    | 12 2          | 82    | 12 2  |                                                                                                                 |  |  |          |
| 12  | Ramachandra Iyer.                   | ...             | ..... | 289                               | 6 0   | 289   | 6 0           | 150   | 0 0   |                                                                                                                 |  |  |          |
| 13  | G. Sreenivasachary.                 | ...             | ..... | 143                               | 8 9   | 104   | 8 0           | 104   | 8 0   | Concession shown by the S. M. O.                                                                                |  |  |          |
| 14  | B. Singarabatu ..                   | ...             | ..... | 463                               | 13 0  | 463   | 13 0          | 362   | 8 0   | Letter addressed to pay the balance amount. Corporation has entered into a contract.                            |  |  |          |
| 15  | T. Sadasiva Iyer, Devonshire house. | 160             | 0 0   | 331                               | 5 6   | 160   | 0 0           | 160   | 0 0   |                                                                                                                 |  |  |          |

TABLE E.—(Continued)

| No. | Name of the owner.                         | Estimated cost. |     |     | Cost incurred by the Corporation. |    |    | Cost charged. |    |    | Cost recovered. |    |    | Remarks.                                             |
|-----|--------------------------------------------|-----------------|-----|-----|-----------------------------------|----|----|---------------|----|----|-----------------|----|----|------------------------------------------------------|
|     |                                            | Rs.             | A.  | P.  | Rs.                               | A. | P. | Rs.           | A. | P. | Rs.             | A. | P. |                                                      |
| 16  | S. Gopalachary ...                         | ...             | ... | ... | 76                                | 8  | 6  | 76            | 8  | 6  | 76              | 8  | 6  | Corporation has entered into a contract.             |
| 17  | E.R.Sreenivasachary                        | 750             | 0   | 0   | 2,300                             | 3  | 7  | 760           | 0  | 0  | 760             | 0  | 0  |                                                      |
| 18  | Manager, Sree Parthasarathy Temple         | 240             | 0   | 0   | 186                               | 10 | 1  | 186           | 10 | 1  | 186             | 10 | 1  |                                                      |
| 19  | Prince of Arcot ...                        | 2,000           | 0   | 0   | 4,206                             | 0  | 1  | 2,000         | 0  | 0  | 1,250           | 0  | 0  | Letter has been addressed to pay the balance amount. |
| 20  | Mrs. Janaki Ammal.                         | ...             | ... | ... | 48                                | 4  | 4  | 48            | 4  | 4  | 48              | 4  | 4  |                                                      |
| 21  | Swamisharvanam ...                         | ...             | ... | ... | 72                                | 6  | 3  | 72            | 6  | 3  | 72              | 6  | 3  |                                                      |
| 22  | Lodd Govindoss Krishnadoss ...             | ...             | ... | ... | 32                                | 0  | 0  | 32            | 0  | 0  | 32              | 0  | 0  | This is for cleaning his tank.                       |
| 23  | Nagarathnamal ...                          | ...             | ... | ... | 24                                | 6  | 11 | 24            | 6  | 11 | 24              | 6  | 11 |                                                      |
| 24  | Inspector Salt Abkari and Custom Dept, ... | ...             | ... | ... | 102                               | 15 | 0  | 102           | 15 | 0  | 102             | 15 | 0  |                                                      |
| 25  | V. S. Ratnam ...                           | ...             | ... | ... | 51                                | 14 | 2  | 51            | 14 | 2  | 51              | 14 | 2  |                                                      |
| 26  | Krishnaswamy Iyer.                         | ...             | ... | ... | 21                                | 10 | 2  | 21            | 10 | 2  | 21              | 10 | 2  |                                                      |
| 27  | Sreenivasa Iyengar.                        | ...             | ... | ... | 77                                | 2  | 8  | 77            | 2  | 8  | 77              | 2  | 8  |                                                      |

In the cases noted below the cost could only be recovered through a Court of Law

TABLE F.

| Serial No. | Name.                 | Amount sued for. |    |    | Court order.                                                                  | Result.                                                     |
|------------|-----------------------|------------------|----|----|-------------------------------------------------------------------------------|-------------------------------------------------------------|
|            |                       | Rs.              | A. | P. |                                                                               |                                                             |
| 1          | Gangatheswar low land | 1,950            | 12 | 2  | Court decreed for the full amount with costs.                                 | Execution proceedings are being taken against the trustees. |
| 2          | Padmavathi Ammal      | 1,285            | 6  | 1  | Court decreed for Rs. 1,086-10-1 with a deduction of Rs. 198-12-0 with costs. | Execution proceedings are being taken against the party.    |
| 3          | Vedachellam Pillai    | 411              | 1  | 6  | Court decreed for the full amount with costs.                                 | Do                                                          |
| 4          | P. Rajoo Gramany      | 342              | 14 | 5  | Do                                                                            | Recovered from the party on 7-12-15.                        |
| 5          | P. Appaswamy Pillai   | 1,201            | 0  | 4  | To pay Rs.1,269-9-10 with half costs                                          | Recovered from party on 7-12-15.                            |
| 6          | Pakkam Abbu Chetty    | 482              | 8  | 0  | Court decreed for the full amount with costs.                                 | Execution proceedings are being taken against the party.    |



Table 'G' shows the number of places yet to be reclaimed. In a number of these cases the owners were prosecuted and the right of reclaiming them obtained by a Magistrate's order. While in others the Corporation have entered into a contract with the parties for their reclamation without resorting to legal steps.

TABLE G.

| Division. | Name of the place.  | Name of the owner.                                                               | Action taken.             | Result.                                                          |
|-----------|---------------------|----------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------|
| 1         | Tank                | Parthasarathy Chetty ...                                                         | Notified                  |                                                                  |
| 2         | Two tanks           | Mylaian <i>alias</i> Paliyan ...                                                 | Fined                     |                                                                  |
| 3         | Do                  | Duraiswami Pillai ..                                                             | Do                        |                                                                  |
| 3         | Tank                | Ramaswami Gramani ...                                                            | Do                        |                                                                  |
| 1         | Do                  | Singaravelu Gramani ...                                                          | Do                        |                                                                  |
| 11        | Do                  | Adimoolam Pillai ...                                                             | Do                        |                                                                  |
| 11        | Do                  | Andalammal ...                                                                   | Case withdrawn            | Promised to pay Rs. 100 and sanctioned by Standing Committee.    |
| 11        | Pit                 | Narayana Reddy ...                                                               | Fined                     |                                                                  |
| 11        | Tank                | Chenniah Naidu ...                                                               | Do                        |                                                                  |
| 11        | Do                  | P. N. Chidambara Mudaliar, Trustee of Padawattaman Temple.                       | Do                        |                                                                  |
| 12        | Lowland & small pit | Rama Ammal and Lakshmi Ammal ...                                                 | Letter                    | Promised to pay Rs. 200 and President consented.                 |
| 12        | Pits                | Perumal Pillai, Perundurai Thayar-ammal and Manickam Pillai ...                  | Prosecuted and convicted. |                                                                  |
| 13        | Well                | Rajambammal ...                                                                  | Fined                     |                                                                  |
| 14        | Pond                | C. A. P. Duraiswami Mudaliar ...                                                 | ...                       | Promised to pay Rs. 350 and President consented.                 |
| 15        | Do                  | Venkitapathy Naidu ...                                                           | Fined                     |                                                                  |
| 15        | Tank                | Appadurai Mudali ...                                                             | Do                        |                                                                  |
| 19        | Pond                | K. Sreenivasa Iyengar and S. Kasturi Ammal ...                                   | Letter                    | Each consented to pay Rs. 100.                                   |
| 19        | 2 small pits        | Vicar-General, Luz Church Road ...                                               | ...                       | To be done by the Corporation.                                   |
| 19        | Tank and pits.      | T. Kuppuswamy Gramany, Arumuga Gramany, Doraiswami Gramany and Papathi Ammal ... | Notified                  | They have promised to pay Rs. 500 and accepted by the President. |
| 19        | Pond                | Rajoo Mudali ...                                                                 | ...                       | S. C. decided that he must pay at least Rs. 200 since reclaimed. |
| 20        | Pits                | Valli Ammal ...                                                                  | Fined                     |                                                                  |

The following is the list of places under the charge of P.W.D. or Military or Collector of Madras requiring reclamation.

1. A large number of pits in and around Mulakuthalam in Cochrane Basin Road.
2. A large Military tank near Sepoy lines in Barracks Road.
3. An extensive lowland near the Record Office.
4. Otary Nullah construction of pukkah masonry channel along the Brick-kiln Road.
5. Excavation of sand along the foreshore of the Beach between the Napier's bridge and San Thome Cathedral.
6. A large marshy tract on the sandy beach to the east of the Spring Haven Road and the north-east of the fort.
7. One tank in the Government Muslim Hostel in Mount Road.
8. Tank in Victoria Hostel.
9. Tanks in Chepauk.
10. One tank in the Government House compound near the western side] of the servants' line.
11. The ditch or drain connecting the Royapettah High Road, and intended to carry the overflow into the Buckingham Canal.
12. Tank in Ritherdon Road, Vepery.

In table 'H' is shown the details of prosecutions, etc., instituted by the Malaria Department.

TABLE H.—

| Division. | Section. | Number prosecuted. | Number with-drawn. | Number convicted. | Number dismissed by court. | Number pending. | Number complied after prosecution. |
|-----------|----------|--------------------|--------------------|-------------------|----------------------------|-----------------|------------------------------------|
| 1         | 302      | 9                  | 1                  | 1                 | ...                        | 3               | 5                                  |
| 2         | 302      | 13                 | 6                  | 7                 | ...                        | ...             | 8                                  |
| 3         | 302      | 13                 | 3                  | 10                | ...                        | ...             | 1                                  |
| 3         | 303      | 5                  | 3                  | 2                 | ...                        | ...             | 2                                  |
| 3         | 306      | 10                 | 2                  | 8                 | ...                        | ...             | 6                                  |
| 5         | 302      | 6                  | 6                  | ...               | ...                        | ...             | 6                                  |
| 10        | 302      | 2                  | 2                  | ...               | ...                        | ..              | 2                                  |
| 10        | 303      | 2                  | 2                  | ...               | ...                        | ...             | 2                                  |
| 11        | 302      | 12                 | 10                 | ...               | ...                        | 2               | 7                                  |
| 11        | 303      | 9                  | 6                  | 2                 | ...                        | 1               | 8                                  |
| 12        | 302      | 9                  | 5                  | 3                 | 1                          | ...             | 2                                  |
| 12        | 303      | 19                 | 3                  | 13                | 3                          | ...             | 1                                  |
| 13        | 302      | 2                  | 1                  | ...               | ...                        | 1               | ...                                |
| 13        | 303      | 6                  | 5                  | 1                 | ...                        | ...             | 5                                  |
| 15        | 302      | 6                  | 3                  | 3                 | ...                        | ...             | 1                                  |
| 15        | 303      | 2                  | 1                  | 1                 | ...                        | ...             | ...                                |
| 18        | 302      | 5                  | 4                  | 1                 | ...                        | 1               | 2                                  |
| 19        | 302      | 25                 | 20                 | 6                 | ...                        | 8               | 17                                 |
| 19        | 303      | 25                 | 21                 | 3                 | ...                        | 6               | 19                                 |



In this connection it may be as well to state that a prosecution is launched only as a last and desperate remedy when a case has turned out to be beyond all our powers of reasoning and persuasion; even then, greatest willingness is shown to meet the parties more than half way. The Corporation is willing even in these hard times of general financial stringency to do all it could in rendering financial aid to deserving cases and prosecutions are promptly withdrawn as soon as a party shows a real desire to comply with the notice served. Nevertheless it is to be regretted that in 61 instances the cases had to be pursued to convictions. It is, however, encouraging to note that the number of such prosecutions is comparatively small and continually diminishing.

From the above tables it will be seen that a large number of places are still awaiting reclamation. The work turned out during the year is small as compared with what it might be, although it is much more than what was done in previous years. But there are several difficulties in the way and these I would like to enumerate.

1. Material for reclamation is not available within easy approach of every individual owner.

2. In some cases the cost of reclamation would mean spending a large amount over a land which will not be worth one-tenth of the cost even at the best of times; and this, no individual owner would willingly undertake.

3. *Means for transhipment.* In the beginning the work was conducted by means of carts drawn by bulls. Finding this costly, four motor lorries were purchased and with these the work went on satisfactorily for sometime. When I took charge of the department all the four lorries were engaged in the work of transshipping earth, sand, etc. But about the middle of April 1915 two of these were placed at the disposal of the Health Department for carrying on the conservancy work of the City, as it was found that, in certain congested parts of Madras, motor transhipment was more speedy and satisfactory than bullock cart transhipment. Since then reclamation was carried on by this department by means of only two lorries, but in course of time it was found that these were not quite satisfactory either. The amount of work done by the lorries could not be as great as it used to be; they are soon worn out and are not likely to stand heavy loading with mud, sand, &c., unless they are repeatedly attended to by intelligent mechanics. Thus they had to be under repairs during the greater part of the working days. The work is, however, pushed on by hand-carts and box-carts of the Health Department and every effort is made to hasten the work of reclamation of undesirable and unhealthy marshes, ponds, pits, &c. Given a suitable and steady means for conveying material for reclamation, this work can be proceeded with at a much more rapid rate.

With a view to overcome partially this difficulty of transshipping material required for reclamation, I suggested in one of my quarterly reports a fairly easy means of solving the problem and it is this:

At present about one-third of the rubbish of Madras is burnt and the resulting ashes heaped up at two stations one in the north at De Mellow's Road



and the other in the south at the Krishnampet incinerator. A large number of small incinerators, each able to consume from 12 to 15 cart-loads of rubbish and scattered about in Madras, are responsible for the disposal of a third or little more and the rest is being dumped in its crude state in the marshy lands between the M. & S. M. Railway tracts and the Otary nullah. Apparently the present incinerators are far removed from or incapable of accommodating the rubbish collected by carts working in certain divisions and hence the last named course, namely, dumping, is adopted. If then, we put up an incinerator at any place selected for filling and reclaim the land from the ash resulting from burnt rubbish we will be killing two birds with one stone, this of course means close co-operation between the Health Department and the Special Malaria Department and a good understanding between them as to the ways and means of meeting the expenses of an incinerator and for working the same. The initial outlay for one incinerator is estimated at Rs. 350 and the working expenses at Rs. 30 per mensem; but, it has to be noted that, in some instances, where an estimate was called for, it was found that not only would it take a period of 5 to 7 years to reclaim the land under question, but the total cost would also far exceed the cost estimated for filling from earth carted from outside. We are thus confronted with difficulties on every side; first, there is the prohibitive cost of reclaiming offensive ponds and marshes with earth carted from outside. Second there is the difficulty—more often the impossibility—for one private owner to undertake such a task. Third, comes the consideration of the cost of putting up incinerators and their working and the difficulty of getting suitable places at close reach of our carts. And last, but not least, the objections often raised by the public around, on account of the nuisance from such incinerators have to be counted upon. Nuisance there is bound to be to a certain degree, but under proper supervision and care, a good deal of it may be overcome; one has to look to the eventual benefits. The Corporation has to carry on anti-malarial measures, and therefore to see that offensive ponds and marshes are reclaimed. It has also got to do the conservancy work of the City, and see the rubbish of the town is properly disposed of. Both these objects should be obtained at the cheapest cost to the rate-payer; for this, it is necessary that there should be proper understanding and co-operation between the individual who is the owner of the land, and the Corporation, who want to build incinerators thereon, and the work of reclamation should be pushed on with advantage to both parties. It is here that the Health Department of the Corporation have a free scope and with a properly sketched out programme, the many offensive places in and around the thickly populated centres in Madras may be rendered useful and the congestion around relieved by building on the spot so reclaimed.

4. Laws delay—perhaps inevitable in a number of cases—is one other cause of delay in starting our work. Moreover the law is sometimes difficult to please. We say there is such and such a pond or rather collections of water which is emphatically dangerous from a malarial stand-point; we pray that the parties may be ordered to do what we have asked them to do in the notice served on them or that, if they fail to do so within a reasonable time, we may be permitted to do the same and recover the cost from the parties. So far as we are concerned it is a plain case; in fact, nothing could be plainer. But 'no' says the Law 'I want



you to prove first that the particular collection of water is a tank, pit or well, &c., within the meaning of the Act.' It is no use merely arguing that the collection of water is undoubtedly dangerous from a malarial stand-point. Certain temporary ponds, puddles, &c., formed soon after the monsoons, in certain burrow pits and other excavations, were held to be merely 'depressions' and not pits, tanks or wells, &c., within the meaning of the Act and therefore no action lay in such cases. It is submitted that sections 302 and 304 of the Madras City Municipal Act may be modified as indicated hereunder since it may help us in overcoming the difficulties experienced at present.

*Section 302.*—If in the opinion of the President (a) any pool, ditch, tank, well, quarryhole, drain, water course, depression or any collection of water ; or

(b) any cistern or other receptacle for water, whether within or outside a building ; or

(c) any land on which water accumulates and which is situated within a distance of one-hundred yards from any building used as a dwelling house, is or is likely to become a breeding place of mosquitoes or in any other respect a nuisance, the President may, by notice in writing, require the owner thereof to fill up, cover over or drain off the same within a specified time and in such a manner and with such materials as the President shall prescribe, or to take such order with the same for removing or abating the nuisance as the President shall prescribe.

*Section 304.*—If the owner on whom a requisition is made under section 302 to fill up, cover over, or drain off 'a well delivers to the President, within the time prescribed for compliance therewith, written objection to such requisition, the President shall report such objections to the Standing Committee and shall make further enquiry into the case, and he shall not institute any prosecution under section 420 for failure to comply with such requisition except with the approval of the Standing Committee, but the President may, nevertheless, if he deems the execution of the work called for by such requisition to be of urgent importance, proceed in accordance with section 442 (2) and pending the Standing Committee's disposal of the question whether the said well shall be permanently filled up, covered over or otherwise dealt with, may cause such well to be securely covered over, so as to prevent the ingress of mosquitoes, and in every such case the President shall determine, with the approval of the Standing Committee, whether the expense of work already done as aforesaid shall be paid by such owner or by the President out of the Municipal funds or shall be shared, and, if so, in what proportions.

1. No new well, tank, pond, cistern or fountain shall be dug or constructed without the previous permission in writing to the President.

2. If any such work is begun or completed without such permission, the President may either

(a) by written notice require the owner or other person, who has done such work to fill up or demolish such work in such manner as the President shall prescribe, or



(b) grant written permission to retain such work, but such permission shall not exempt such owner from proceedings for contravening the provisions of subsection (1)

Closely connected with this question is that of new excavations, which soon after monsoons, became dangerous breeding grounds for anophelene mosquitoes. Bye-laws 270 and 271 under section 409 (30) of Madras City Municipal Act, 1904, regarding excavation of earth or sand, enact,

270. "Without the sanction of the President no person shall for the purpose of obtaining earth or sand for sale make any such excavation as is likely to cause stagnation of water nor without sanction shall any person make such excavation for building purposes within 50 feet of any existing or proposed building."

"An appeal shall lie to the Standing Committee against any refusal of the President to grant such sanction."

271. "Any person offending against this bye-law shall be punishable with a fine which may extend to twenty rupees, and in the case of a continuing breach, with a fine which may extend to ten rupees for every day during which the breach continues after conviction for the first breach."

And according to this we have to prove two facts namely,

1. That the excavation was made within 50 feet of a habitation.
2. That the earth excavated was sold or was used for building purposes.

It is not possible in most cases to prove either of these or both and thus no action lies against the defaulter.

Recently an alteration of this bye-law was suggested by the Government for approval of the Corporation but as the Commissioners did not approve of the proposal, it was dropped.

It is submitted that, in the interests of public health, the Corporation will reconsider the proposition and approve of the alterations as suggested by the Government.

Examples of such unlawful excavations even at a few yards from a dwelling house, are not wanting in the midst of hutting grounds and paracherries. In fact these excavations are made to obtain earth for erecting the walls of the future hut which is to be inhabited. Deep pits are thus formed and during the monsoons and after they form prolific breeding grounds for anophelene mosquitoes, more dangerous than the existing ponds and tanks.

Costs of reclamation and amounts recovered.

Table 'E' on page 24 gives details of this. Attention is drawn to the great variations in the estimated costs, and cost actually incurred and recovered.

At the start when reclamation work was commenced, no consideration appears to have been bestowed on the question whether the costs of such reclamation was to be borne by the Corporation or the person to whom the



reclaimed place belonged. The Government had made a grant with the specific object of carrying anti-malarial measures, and reclamation wherever possible, of dangerous offensive places formed the first and the foremost anti-malarial measure. So long as the money, which was spent for such sanitary purpose and under legal authority, was accounted for by the submission of a daily muster of coolies, etc., under the officer's direct supervision, it was believed that the total amounts spent would represent the quantity of work done. On this score no estimates were got for each individual case. Equally there appears to have been no idea of recovering the costs of such works in part or wholly from the owners whose land or lands were thus improved.

Since I took charge of this office in January last year, I thought it would be beneficial, not only for the malaria funds but also to the Corporation eventually, to recover monies spent by us on behalf of private property. Thus I called up all old records, started working out details, and submitted bills. For this, my experience at Ennore helped me a good deal and during the last year a fairly good sum of money was so realised. Meanwhile the Auditors objected the bills submitted for want of 'sanctioned estimates'. To satisfy the Auditors and to enable us to apportion the exact cost of each place of reclamation to the owner concerned, I began to get estimates in all cases. But here there was some difficulty. The Malaria Department was given no special staff of Overseers and Surveyors to render such accounts and the Works Department found this work very much interfered with their legitimate work. I had therefore to ask the one Surveyor in my office who was meant to prepare block maps, charts, etc., to do this estimating for me.

On 11th August 1915, I asked the Standing Committee to delegate to me some powers to undertake reclamation work without their formal sanction and as a result I was empowered to do works involving Rs. 200 or less.

There are several reasons for the great divergence of cost between the estimates and the expenses.

(a) *Change of Place.*—The estimates may have been prepared on the calculation of our obtaining earth from one place, but during the course of work, it was found that earth here was either exhausted or was difficult to excavate and load, and therefore a new site, mostly at some distance from the original one, had to be selected. This was so in the case of Mr. Sreenivasacharya in Edward Elliot's Road, for, the place from which we were taking earth near Nochi Kuppam was changed to one further south near the San Thome Church.

(b) *Excavation of Surrounding Earth on High Ground.*—This was undertaken in certain cases where the excavation could be easily made without rendering the whole plot of ground a low-land or less valuable. By this the heavy cost of work by the lorry was overcome. Hence a decrease of estimated cost.

(c) *The Exactness of the estimates.*—I know in some cases where the depth of a pond or tank was 10 or 12 feet, it was estimated as 3 or 4 feet. In estimating no consideration was given for such items as wear and tear of lorry and supervising charges.



(d) The lorries would very often break down suddenly during a day's work so that while the coolies had to be paid wages for a full day, the work would probably have been for half a day or less sometimes; and these coolies had to be put on for work of some minor importance at the place.

If really the charges for supervising and wear and tear of lorries are deducted from our accounts, estimates and expenses very nearly approximate.

*Drainage.*—The preparation of a scheme for draining the water logged area in Purasawakam is well advanced under the guidance of Mr. Barker, the Special Anti-Malaria Engineer, and even in its stage of a 'scheme' it has resulted in the draining of a large quantity of water from either side of Brick Kiln Road and tracts which used to be full of water in this season were quite dry. It is expected that the whole area will be completely cleared of all swamps as soon as the scheme is put into effect. A separate report on this will be submitted by Mr. Barker. I take this opportunity of bringing to the notice of the Engineer the possibility of draining the following :—(1) The marshy land in and around Korukupet and Washermanpet and (2) the land to the west of the Office of the Commissioner of Police and close to the Buckingham Canal.

*Quinisation*—(A) *Through Corporation Agency.*—For house to house administration of quinine to all those that needed it, and to women and children in particular, nine nurses were employed till 8th March 1915 and six during the rest of the year. Three Malaria dispensaries one each at Dhobipet, Royapuram and Purasawakam and the Corporation Dispensary at Washermanpet did very useful work in this direction and they were all very popular. The tables given below under statistics show the number of persons treated by nurses and at the dispensaries.

(B) *Through Social Workers.*—1. A supply of quinine and Magnesium Sulphate was made to Mrs. Whitehead at her request for distribution amongst the children in Nallancheri in Teynampet.

2. The Superintendent of the night-school, Purasawakam gets a free supply of quinine every month for the children attending the school.

It is desirable that some more of the Social Service Societies in Madras should help the Corporation in this direction, and it will always be the aim of the Corporation to try and arrange, as far as possible, for a supply of quinine to schools, asylums or other institutions, where the proper distribution of quinine can be satisfactorily arranged.

*Vital Statistics and Observations.*—It may be said at the outset that the conditions of the health of the city as far as malaria is concerned are very encouraging. The anti-malarial campaign inaugurated at great cost has worked to a great advantage and malaria and malarial mortality have steadily decreased over the entire City. Certain parts of Madras which used to be very unhealthy on account of malarial fevers and hence more or less deserted have been rendered healthier and people are going back to their residences.



161 { In the year under review the total mortality was 36.0 per mille as against 46.6 per mille in 1914 and the causes conducive to such happier times have been indicated in the report of the Health Officer. Amongst these causes decreased malaria has contributed to rendering the city healthier and to keeping down the total mortality rate. //

*Deaths from Malaria in 1915.*—There were 4.5 per mille of fever deaths including deaths from malaria in 1915 as against 6.7 per mille in 1914 or 12.5 per cent. of total deaths as against 14.3 per cent. in 1914. Deaths from malaria as registered worked to 3.3 per mille as against 5.1 in 1914 or 9 per cent. of total deaths as against 11 per cent. in 1914. //

As our anti-malarial operations are chiefly confined to certain parts of Madras as stated already, it may be desirable to study the results of our work with the figures of vital statistics for these parts.

*Tondiarpet (1st, 2nd and 3rd Divisions) of Madras.*

|                            | year.    |        |       |                                |
|----------------------------|----------|--------|-------|--------------------------------|
| Total number of treatments | ... 1915 | 70,527 |       |                                |
| Do                         | ... 1914 | 64,739 |       |                                |
| Fresh infections           | ... 1915 | 6,597  |       |                                |
| Do                         | ... 1914 | 13,261 |       |                                |
| Total deaths               | ... 1915 | 3,384  | 44.5  | } per mille.                   |
| Do                         | ... 1914 | 4,049  | 53.2  |                                |
| Average for 10 years       | ...      | 4,167  | 54.8  |                                |
| Fever deaths               | ... 1915 | 813    | 10.7  |                                |
| Do                         | ... 1914 | 935    | 12.3  | } per mille.                   |
| Average for 10 years       | ...      | 1,005  | 13.2  |                                |
| Infantile deaths           | ... 1915 | 894    | 327.6 | } per 1,000 births registered. |
| Do                         | ... 1914 | 928    | 332.4 |                                |
| Average for 10 years       | ...      | 1,095  | 358.5 |                                |

For detailed table see Appendix '6' From the above table it is obvious that during 1915 there was an encouraging fall in the death-rate from fevers, and also in infantile mortality, although the latter is still appallingly high. The detailed table in Appendix '6' shows there was a sudden rise in fever mortality in March and April 1915 and while commenting on this in my second quarterly report I said as follows :—

"The Health Officer reported to me that in March last there was a rise in fever mortality in this area and on very careful enquiry, it was found that as many as nine deaths from fever were reported from a small paracherri in Cochrane Basin Road in one week where really there was a sharp outbreak of malarial fevers. The nurse concerned was directed to pay more frequent visits to this area and the swamps, Railway burrow-pits, and ponds, etc., were at once cleaned and petrolised and as a result, the fevers were quickly arrested.

"The above is by no means a solitary or isolated instance. In fact it is merely a type of the numerous foci for mischief with which this Division abounds. Indeed the state of affairs in Tondiarpet is such that at any time there might be a general epidemic of varying degrees of severity; for, when one reflects



over the enormous possibilities for mischief afforded by such conditions as the existence of (1) the numerous swampy areas in and around Korukupet and Washermanpet, (2) the unused dyeing and paddy pots, and (3) the extensive Railway burrow-pits on either side of the railway line running through these parts freely breeding mosquito larvæ of even dangerous descriptions, one need not be surprised if it should unfortunately happen that there is a great recurrence of such an epidemic as that which devastated these parts in 1912-13.

"As for remedial measures nothing short of radical procedure will probably be of any avail here; the whole of the swampy area has to be thoroughly drained. As for the dyeing and paddy pots action could not be taken under sections 302 and 303 of the Municipal Act but under separate sections dealing with removal of filth round human habitation. This course however involves some avoidable delay; nevertheless some satisfactory work is being turned out in this direction. Dealing with the railway burrow-pits is even a more difficult step as it appears that the Corporation cannot make its voice felt by the Railway authorities."

There was a steady fall till September when there was a small rise again but this was not of much consequence and the timely measures undertaken have since then improved the conditions. The remarks made above hold good at present as at the time they were made. But it is gratifying to note that the vast and extensive marshy tract in Washermanpet and Korukupet is being steadily but slowly reclaimed by the burnt ash from the incinerators working there. Much remains to be done still and the best results are obtainable only when every landed proprietor who owns a tank or a pond or a well is determined to make his tank pond or well innocuous from mosquito larvæ.

*Purasawakkam (11th Division.)*

|                            | Year.    |        |       |                                |
|----------------------------|----------|--------|-------|--------------------------------|
| Total number of treatments | ... 1915 | 39,800 |       |                                |
| Do                         | ... 1914 | 43,827 |       |                                |
| Fresh infections           | ... 1915 | 2,319  |       |                                |
| Do                         | ... 1914 | 11,678 |       |                                |
| Total deaths               | ... 1915 | 1,413  | 34.0  | } per mille.                   |
| Do                         | ... 1914 | 2,143  | 51.6  |                                |
| Average for 10 years       | ...      | 1,676  | 40.4  |                                |
| Fever deaths               | ... 1915 | 175    | 4.2   |                                |
| Do                         | ... 1914 | 308    | 7.5   | } per 1,000 births registered. |
| Average for 10 years       | ...      | 302    | 7.3   |                                |
| Infantile deaths           | ... 1915 | 431    | 269.8 |                                |
| Do                         | ... 1914 | 552    | 358.0 |                                |
| Average for 10 years       | ...      | 499    | 299.2 |                                |

This is an area giving us lot of anxiety and we are always in a state of 'watchful expectancy'. The months of March, September and December were bad, but compared with 1914, the conditions are very gratifying. The fever mortality is only 4.2 per mille as against 7.5 in 1914 and the infantile mortality 269.8 against 358.0 per 1,000 births. The total mortality figures for the months of July



August and September 1915 showed a rise and in drawing up the report for the quarter ending with September 1915 I submitted the following :—

“ A reference to the statistical figure for this quarter may, at first sight, lead one to think that malarial conditions have shown encouraging improvements during this quarter but as a matter of fact the reverse seems to be the truth. It is true that there is a noticeable decrease under the heads of total number of cases treated and fresh infections but the chief explanation for this lies in the fact that only six nurses were working during this quarter as against nine in the corresponding quarter of last year. It is also true that there is some decrease under the heads of total deaths, fever deaths and infantile deaths, both as compared with figures for last year and that for the average for ten years ; but then one has to remember that last year there was a fairly severe epidemic of cholera which vitiated our figures for that year ; further much reliance could not be placed on figures for fever deaths as these are not reliable as is so often pointed out. The most reliable factor however is ‘ Infantile mortality ’ the figures for which show no appreciable change at all, except in Tondiarpet where there is some noticeable decrease.

“ Apart from comparisons, the figures for fever deaths and infantile mortality are by themselves yet too high. In spite of the popular opinion I beg to submit that malaria has not gone down during this quarter and that there is no use in deceiving ourselves into a false sense of security that malaria is going down, whereas as a matter of fact, it is just the other way. From what I know of local conditions, the extent of infection as judged by the number of infected slides in cases of random sampling and in those from the Malaria Dispensaries and from what I could read from the figures of Vital Statistics I come to the conclusion that, whatever the cause of it may be, the situation that had to be faced was one of increased malarial infection. At the same time it has to be noted that the large total mortality need not give us any alarm, for much of it seems to be due to causes other than malaria or fevers, although deaths from malaria are by themselves higher than they should be. Thus the total number of deaths during this quarter in the Municipal divisions concerned was 1,618 the chief contributing factors of which are :—

|                               |     |     |     |     |     |
|-------------------------------|-----|-----|-----|-----|-----|
| 1. Diarrhoea                  | ... | ... | ... | ... | 265 |
| 2. Fevers (including malaria) | ... | ... | ... | ... | 237 |
| 3. Dysentery                  | ... | ... | ... | ... | 210 |
| 4. Respiratory diseases       | ... | ... | ... | ... | 175 |

“ It seems as though the quarter under review was specially an unhealthy one for which the unusually heavy summer rains may be a contributory cause ; at any rate it is always held to be so as far as malaria is concerned. It is well-known that fresh inoculations occur most frequently at the beginning and end of great summer rains ; further, rains also tend to bring on relapses, which, in turn, operate to increase the number of fresh infections, as patients with frequent relapses tend to show more grave tides than those without them. Sir Ronald Ross further holds that they also increase the biting and decrease the recovery factor of the epidemiological formula. For these reasons it may well be that the



unusually heavy summer rains of this year may be at least one,—if not the only one, of the factors for the increase of malaria during this quarter.

“As soon as it became known that malaria was on the increase prompt and vigorous measures were at once adopted especially in the direction of quinisation and petrolising and otherwise dealing with temporary puddles and pools formed as a direct result of the said rains. How far these measures will tend to check malaria, the next quarter will doubtless show. Without desiring to be too much of an optimist or a prophet I however venture to express the hope that the measures so far taken will have every tendency to make the present outbreak of malaria a very short-lived one.”

And as said above the conditions rapidly improved and the succeeding months witnessed a decreased malarial infection and total mortality.

As already said above a large quantity of water in the shallow grounds on either side of Brick Kiln Road was drained by the Anti-Malarial Engineer and this has helped us a great way in keeping down the fevers in this part of the city.

*Mylapore (19th Division).*

|                            |     |      |        |       |
|----------------------------|-----|------|--------|-------|
| Total number of treatments | ... | 1915 | 9,958  |       |
| Do                         | ... | 1914 | 16,820 |       |
| Fresh infections           | ... | 1915 | 2,316  |       |
| Do                         | ... | 1914 | 5,023  |       |
| Total deaths               | ... | 1915 | 1,231  | 35.8  |
| Do                         | ... | 1914 | 1,708  | 48.8  |
| Average for 10 year        | ... |      | 1,005  | 33.4  |
| Fever deaths               | ... | 1915 | 83     | 2.4   |
| Do                         | ... | 1914 | 183    | 5.3   |
| Average for 10 years       | ... |      | 237    | 6.9   |
| Infantile deaths           | ... | 1915 | 331    | 253.8 |
| Do                         | ... | 1914 | 359    | 295.0 |
| Average for 10 years       | ... |      | 358    | 313.2 |

per mille.

Per 1,000

Births

registered.

Anti-malarial measures in this part of the city are conducted with much less opposition and greater co-operation and necessarily better work of a permanent nature was done during the year under review. This has resulted in a perceptible improvement from the point of view of malaria. The total mortality was 35.8 per mille as against 48.8 per mille in 1914 and the mortality from fever 2.4 as against 5.3 or 6.75 per cent. of the total mortality as against 10.90 per cent. in 1914. That is while the fall in total mortality for 1915 was only 26.65 per cent. that from fevers was 54.70 per cent. Nor is the infantile mortality behind. It was 253.8 against 295.0 in 1914.

MADRAS,  
19th June 1916.

K. RAGHAVENDRA ROW, B.A., M.B. & C.M.,

Special Malaria Officer.



## APPENDIX '1.'

Statement of employees working in the Special Malaria Department  
during 1914 and 1915.

| Serial No. | Name of office.                                              | Pay or salary per mensem. |              | Remarks.                                                                   |
|------------|--------------------------------------------------------------|---------------------------|--------------|----------------------------------------------------------------------------|
|            |                                                              | On the 31st Dec. 1914.    | During 1915. |                                                                            |
|            | <b>Special Malaria Office.</b>                               | Rs.                       | Rs.          |                                                                            |
|            | <i>General Indoor Staff.</i>                                 |                           |              |                                                                            |
| 1          | Special Malaria Officer ...                                  | 1,000                     | 400          |                                                                            |
| 2          | Head Clerk ...                                               | 40                        | 40           |                                                                            |
| 3          | Accountant ...                                               | 30                        | 30           |                                                                            |
| 4          | Clerk (branch office) ...                                    | 30                        | Nil          | Abolished.                                                                 |
| 5          | Clerk and Typist at Rs. 25 + 1 ...                           | 26                        | 30           |                                                                            |
| 6          | Cycle peons at Rs. 9 + 1 each ...                            | 40                        | 20           | Reduction.                                                                 |
| 7          | Peons at Rs. 8 + 1 each ...                                  | 18                        | 18           |                                                                            |
| 8          | Watchmen at Rs. 8 + 1 each ...                               | 18                        | 18           |                                                                            |
|            | Total ...                                                    | 1,202                     | 556          |                                                                            |
|            | <i>Investigation Staff.</i>                                  |                           |              |                                                                            |
| 1          | Laboratory Assistant at Rs. 100 + 20 + 15 + 8 per mensem ... | 143                       | Nil          | Rs. 20 special, Rs. 15 travelling, Rs. 8 house rent allowances. Reduction. |
| 2          | Sub-Asst. Surgeon at Rs. 50 + 15 per mensem ...              | 65                        | Nil          | Reduction.                                                                 |
| 3          | Surveyors at Rs. 60 + 5 each ...                             | 260                       | 65           | Rs. 5 Cycle allowance. Reduction.                                          |
| 4          | Laboratory Attendant ...                                     | 30                        | 30           |                                                                            |
| 5          | Mosquito catchers at Rs. 10 each ...                         | 40                        | 30           | Reduction.                                                                 |
| 6          | Peons at Rs. 8 + 1 each ...                                  | 18                        | Nil          | Do.                                                                        |
| 7          | Lascars at Rs. 8 each ...                                    | 88                        | 9            | Do. One lascar at Rs. 9 per mensem.                                        |
|            | Total ...                                                    | 644                       | 134          |                                                                            |
|            | <i>Prevention Staff.</i>                                     |                           |              |                                                                            |
|            | (a) OILING.                                                  |                           |              |                                                                            |
| 1          | Out-door Assistants at Rs. 140 + 25, each ...                | 330                       | 165          | Rs. 25 carriage allowance. Reduction.                                      |
| 2          | Supervisors at Rs. 100 + 5 each ...                          | 210                       | 210          | Rs. 5 Cycle allowance.                                                     |

| Serial No. | Name of office.                                | Pay or salary per mensem. |              | Remarks.                                                   |
|------------|------------------------------------------------|---------------------------|--------------|------------------------------------------------------------|
|            |                                                | On the 31st Dec. 1914.    | During 1915. |                                                            |
|            | (a) Oiling—(continued).                        | Rs.                       | Rs.          |                                                            |
| 3          | Foremen at Rs. 30 each ...                     | 90                        | 90           |                                                            |
| 4          | Cycle peon at Rs. 9 + 1 ...                    | 10                        | Nil          | Reduction.                                                 |
| 5          | Peons at Rs. 8 + 1 each ...                    | 45                        | 27           | Do.                                                        |
|            | Total ...                                      | 685                       | 492          |                                                            |
|            | (b) TREATMENT.                                 |                           |              |                                                            |
| 1          | Nurses at Rs. 200 each ...                     | 1,800                     | 600          | 6 Nurses at Rs. 100 each.                                  |
| 2          | Sub-Asst. Surgeons at Rs. 50 + 15 each ...     | 130                       | 195          | Rs. 15 Conveyance allowance. In 1915 3 Sub-Asst. Surgeons. |
| 3          | Clerks at Rs. 15 + 1 each ...                  | 32                        | 32           |                                                            |
| 4          | Compounders at Rs. 12 + 1 each ...             | 39                        | 39           |                                                            |
| 5          | Peons at Rs. 8 + 1 each ...                    | 99                        | 81           | Reduction.                                                 |
|            | Total ...                                      | 2,100                     | 947          |                                                            |
|            | Motor Lorry Staff.                             |                           |              |                                                            |
| 1          | 4 Drivers at Rs. 40 each ...                   | 160                       | 160          |                                                            |
| 2          | 4 Cleaners at Rs. 10 each ...                  | 40                        | 40           |                                                            |
| 3          | 4 Cleaners at Rs. 8 each ...                   | 32                        | 32           |                                                            |
|            | Total ...                                      | 232                       | 232          |                                                            |
|            | Labour Charges.                                |                           |              |                                                            |
| 1          | 1 Head Maistry ...                             | 20                        | 20           |                                                            |
| 2          | 3 Process Servers at Rs. 15 each ...           | 45                        | Nil          | Reduction.                                                 |
| 3          | 39 Maistries at Rs. 15 each ...                | 585                       | 180          | Only 12 maistries in 1915.                                 |
| 4          | 30 Fishermen at Rs. 15 each ...                | 450                       | 120          | 10 fishermen at Rs. 12 each in 1915.                       |
| 5          | 1 Watchman at Rs. 8 ...                        | 8                         | Nil          | Reduction.                                                 |
| 6          | 60 Oiling coolies at Rs. 8 each ...            | 480                       | 336          | Only 42 coolies were retained in 1915.                     |
| 7          | 30 Fishermen coolies at Rs. 8 each ...         | 240                       | Nil          | Reduction.                                                 |
| 8          | 168 cleaning coolies at As. 6 each per day ... | 1,890                     | 675          | Only 60 coolies were working in 1915.                      |
| 9          | 3 Dispensary Sweepers at Rs. 2 each.           | 6                         | 6            |                                                            |
|            | Total ...                                      | 3,724                     | 1,337        |                                                            |
|            | Grand Total ...                                | 8,587                     | 3,698        |                                                            |
|            | i.e., ...                                      | 1,03,044                  | 44,376       | per annum.                                                 |



## APPENDIX 2.

*A report on "Buckingham Canal as a Breeding Ground for Mosquitoes."*

*History.*—"The Buckingham Canal is a salt water navigation canal, tidal to a great extent wherever the river bars are open, which extends for 262 miles along the East Coast of the Madras Presidency from Pedda Ganjam in Guntur District, southwards through Madras City, and into Markanam in South Arcot. At Pedda Ganjam it communicates with the fresh water high level canal of the delta system of the Kistna river and so with the Godavery delta canals and thus opens up water communication with the port of Cocanada, making a total length of 462 miles of main navigable canal. The Buckingham Canal runs within three miles of the coast throughout its entire length and many portions of it are within half a mile of the sea. It utilises some portion of the Pulicat Lake.

"The excavation of the section from Madras City to this Lake was begun as long ago as 1806 as a private enterprise and was known after its originator as Cochrane's Canal. In 1837 this was taken over by Government, but up to 1876 only 5½ lakhs have been spent in extending it. It was at this time called the East Coast Canal. In the great famine of 1876-1878 it was resolved to take up the completion of the undertaking as a relief work, and an expenditure of over 29 lakhs was incurred. It was renamed the Buckingham Canal after the Duke of Buckingham and Chandos, then Governor of Madras. Up to date the total capital cost has amounted to 90 lakhs. The chief difficulty in maintaining it in order was that, as it crossed the whole drainage of the country it was extremely liable to be silted up. Between 1883 and 1891 large expenditure was incurred in remedying this tendency. In ordinary years the traffic upon it, though it amounts to 12½ millions of tons annually, is insufficient to meet the working expenses and a deficit of about of Rs. 20,000 occurs. The railway along the coast, which has been opened since the canal was constructed has robbed it of the long distance traffic which it was originally designed to carry. The chief traffic along it at present is salt from the various coast factories and firewood from Sriharikota to Madras City, but in bad seasons it is of value in connecting the two fertile deltas with the poorer country further south. Cargo boats and boats belonging to Government and private individuals ply along it. Wharves have been constructed at interval for their use and there is also a series of traveller's bungalows upon the banks."

*Course in the City of Madras.*—"The canal enters the City of Madras at its northern limit at Satankadu and runs south along the western limit at Tendiarpet and is here at a distance of over a mile from all human habitations. It crosses the Madras and Southern Mahratta Railway line south-west of Massey & Co. (iron works) and turning slightly eastwards runs down south close to the west of the portions of Georgetown constituting Municipal Divisions 7, 8 and 9. A portion of the canal between the Basin Bridge and the Elephant Gate Bridge is situated within the enclosure of the Salt Depot and here a number of branch canals are opened by that department. Of these the easternmost branch sometimes known as the "Old Moat" has attracted some attention which will be referred to later in this report. From the Elephant Gate Bridge it takes its course between People's Park and Central Station and joins



the Cooum River at the College Bridge. The canal starts again from the Cooum River South-west of Napier's Bridge and west of Marine Villa and runs southwards through Chepauk close to the west of the row of public offices facing the Triplicane beach, forming thereafter the eastern boundary of Triplicane. From near Barber's Bridge it runs slightly westwards for about a few hundred yards and then passes through Mylapore and Adyar in a south-westerly direction and ends its course for the City of Madras by entering the river Adyar. It is thus seen that it traverses through the City of Madras for a length of nearly 10 miles and in the greater part of its course, *i.e.*, from the Basin Bridge southwards it runs through very thickly populated parts of Madras as Georgetown and Triplicane.

It is therefore of the utmost importance to investigate whether it offers suitable conditions for the breeding of mosquitoes and if so, how far it is dangerous from a malarial standpoint.

*Mosquito Survey.*—The portion of the canal situated between Basin Bridge in the north and the bridge in Luz Church Road in the south was chosen for purposes of investigation and for convenience of tabulation and description this was again split up into eight smaller sections (*vide* below). Both culex and anophelene larvæ were found breeding in abundance everywhere. But our immediate concern is, however, only with the anophelene, some species of which alone are malarial carriers so far as it is known at present, and the following table shows the kinds of anophelene mosquitoes breeding in the several sections :—

| No. | Section.                                                             | Species of mosquitoes.             | Remarks.           |
|-----|----------------------------------------------------------------------|------------------------------------|--------------------|
| 1   | From Basin Bridge to Elephant Gate Bridge ... ..                     | A. Rossii                          | Few only.          |
| 2   | Branch canal (old moat) in the enclosure of the Salt Depot ...       | A. Culicifacies<br>A. Rossii       | } Malaria carrier. |
| 3   | Elephant Gate Bridge to College Bridge ... ..                        | A. Culicifacies<br>A. Barbirostris |                    |
| 4   | Near Marine Villa in Chepauk to Bridge in Pycroft's Road ...         | A. Rossii                          | ...                |
| 5   | Bridge in Pycroft's Road to that in Ice House Road ...               | A. Rossii<br>A. Jamesii            | } ...              |
| 6   | From Bridge in Ice House Road to that in Edward Elliot's Road ... .. | A. Rossii                          |                    |
| 7   | From the Bridge in Edward Elliot's Road to Barber's Bridge.          | A. Jamesii                         | Few only.          |
| 8   | Barber's Bridge to Bridge in Luz Church Road ... ..                  | A. Rossii<br>A. Jamesii            | } ...              |
|     |                                                                      |                                    |                    |



*A Striking Observation.*—It will be seen from the above that the parts of Madras close to the canal in the regions noted in columns 2 and 3 are dangerous zones from a malarial point of view. In sections shown in columns 1, 6 and 7 the anophelene mosquitoes are far fewer in number than in other places and a large number of Haplochilus fish (larvicidal) were present which cannot have their full play in the midst of weeds, leaves, etc., floating on the surface of water. In the present state of the canal in the other regions these fish do not appear to be able to thrive and here very large numbers of culex and anophelene larvæ are found breeding, and this difference in the distribution of mosquito larvæ in the different courses of the same canal is striking and calls for some explanation.

*An Explanation Suggested:*—If then mosquito larvæ abound in some portions of the same canal and not in others, it suggests itself that the surroundings or the composition of water or both are favourable, or at any rate not inimical, to mosquito life in some places, but unfavourable or even inimical in others. For one cause or another, such as the continual silting up of the bed of the canal, the consequent stagnation favouring decomposition of dead and decaying matter that may fall into it, as for example, the leaves and twigs of the overhanging branches on either bank, or from the formation, as water recedes, of small pools and puddles on either banks, the water of the canal to the south of Elephant Gate Bridge is foul in appearance, unpleasant in its odour and dirty—brown in colour—not unlike the appearance, colour and odour of a neglected cess pool ; in fact in some portions of Triplicane where sewage overflow is allowed to run into the canal, it is no exaggeration to say that the canal is a huge cesspool and nothing less.

The condition of the canal to the north of the Elephant Gate bridge is not nearly so deplorable and with this is correlated the fact of the comparative freedom from mosquito larvæ here. For the purposes of this paper, this region may be broadly divided in two portions, namely, one under the control and within the limits of the Salt Department and situated near human habitations, and the other portion beyond this adjoining Tondiarpet which is at a safe distance from all human habitations and need not on that ground alone require much attention at present. Again the region of the canal within the enclosure of the Salt Depot is kept fairly clean and the surface of the water, which by the way is a very wide one, is kept in constant agitation by wind and by the frequent movement of boats; hence it is no wonder that this offers no congenial breeding ground for mosquitoes. On the other hand, it is to be noted in this connection that where a branching canal—here “the old moat” referred to already—is neglected and is allowed to silt up, the resulting conditions of stagnation, decomposition, etc., favour mosquito breeding. Of the three or four branch canals in the Salt Depot, it is only this neglected one that breeds dangerous mosquito larvæ. From these facts the conclusion is irresistible that the striking difference in the distribution of the mosquito larvæ in the different portions of the Buckingham Canal is mainly, if not chiefly, a product of the varying conditions of the canal in its several portions.



*Suggestions for improvements.*—It is evident from the above that the portions of the canal that require urgent and immediate attention are—

1. The portion to the south of the Elephant Gate bridge.
2. The "Old Moat" above referred to.

Regarding the first, it is to be observed at the outset that the most satisfactory and radical measure of filling up is not within the range of practical sanitation; for one thing it has cost several lakhs to dig and would cost at a very modest computation as many lakhs to fill up; for another it has been serving some useful purpose both to Government and to trade by affording facilities for boat transport of salt, fuel, etc. It is therefore proposed to adopt some conservative methods aimed at approximating the condition of the portion of the canal to the south of Elephant Gate bridge (where mosquito larvæ of even dangerous descriptions abound) to that which obtains to its north where there is comparative freedom from this dangerous pest. The measures calculated to produce this desired result are—

1. Removal of silt and maintenance of a proper gradient ensuring an uninterrupted flow down the canal.
2. Systematic cutting off of overhanging branches with the double object firstly of preventing leaves, twigs, etc., from falling into the water and getting decomposed and secondly, of exposing the water edges to the direct rays of the sun.
3. Maintenance of clean cut sloping edges so that the water level as it recedes may leave no pools and puddles.
4. Maintenance of a careful watch against the digging of pits and removal of earth from the sloping banks.
5. As far as feasible no sewage must be allowed to run into it.

Regarding the "old moat" the case is somewhat different. It is evident from the conditions of the other branches of the canal in the enclosure of the Salt Department that, if the department only minds it, this neglected portion too can be certainly kept in a satisfactory condition, but the department disowns all responsibility on the ground that it was originally used by the Municipal Corporation for the boat transport of night-soil punts and that it was at no time in the possession or use of the department. For some years past it is not being used even by the Corporation, as a result of which it has silted, and is overgrown with rank weeds and vegetation. To make matters worse the sewage overflow from Georgetown also gets into it.

The most satisfactory and at the same time practicable method of getting rid of this nuisance is the entire filling up of this—a measure eminently desirable, if one remembers that it is within a dangerous distance of certain thickly populated parts of Georgetown. The earth for filling up is easily obtainable from the Choolai incinerator just to the west of Salt Cotaurs and the cost of filling up this portion which is about 1,500 ft. long, 50 feet wide and 10 feet deep on an average may approximately cost Rs. 5,000. Till such time as this desirable measure is not



carried out it is very urgent and necessary that the following palliative measures at least be adopted :—

1. Removal of silt and maintenance of proper gradient of flow.
2. Cleaning the moat of all its weeds and rank vegetation.
3. Prevention of the overflow of sewage.
4. Ensuring constant agitation of water directing that private boats shall ply through this portion of the canal.

K. RAGHAVENDRA RAO,

B.A., M.B. & C.M.,

*Special Malaria Officer.*

#### APPENDIX ' 3'.

A report on the Cooum River, as a breeding ground for anophelene mosquitoes.

*History*—"Cooum (Kuvam) River in Madras formed by the junction of the surplus water of a tank in the village of Kuvam in the Conjeevaram Taluk of Chingleput District, and the Old Bangaru Channel. It irrigates Kadambattur, Tinnanur and other villages, and from a dam thrown across it at Koratur sends down a supply to the Chembrembakam tank through the new Bangaru Channel. It then irrigates Vayanallur, Ayanambakam and other villages of the Saidapet Taluk and finally flows through the heart of Madras City, into the Bay of Bengal near the Fort St. George. In the latter part of its course the stream except in the rains is insufficient to keep an open channel and a sand bar forms across the mouth, converting the river into a brookish lagoon. At present some of the sewage of Madras passes into this and the stream has thus obtained an unsavoury reputation. The new drainage scheme for the city will, however, remove the sewage to a farm to the north and effect, it is hoped, a great improvement in the present condition of the lower reaches of the river." (Imperial Gazetteer of India 1908).

*Course in the City of Madras.*—Within the Municipal limits of the City of Madras the Cooum River flows from west to east in a tortuous course, demarcating the boundary lines between the following Divisions : 14th and 15th, 13th and 15th, 13th and 16th and finally a portion of the 13th from the 17th Division where it enters the sea beyond the Napier Bridge. For over ten months of the year an immense bar of sand is formed impeding its flow onwards to join the sea, so that during the whole of this period of the year it can only be described as a filthy stagnant pool of water without any apparent flow in any direction.

From Munro's bridge eastwards as far as the St. Andrews Bridge the river is represented by a large number of filthy, stagnant polluted pools of water,



pools which are scattered about in the bed of the river and which are rarely connected in a continuous line except perhaps during the monsoons when the pools will be flushed out by heavy floods perhaps extending over a period of six weeks or two months. At other times these pools are small, shallow ones covered over with weeds and moss affording ample facilities for the breeding of mosquitoes as will be shown hereafter. East of the bridge near the Penitentiary on the north and the Government House Bridge on the south, *i.e.*, round the island approximately the river is extremely broad.

*Mosquito Survey.*—For purposes of our investigation the extent of the river within the city limits was cut up into eight sections, commencing from Munro's Bridge eastwards. In each section a careful search was made for mosquito larvæ along the edges of the central stream of water in the puddles and pools of water in the bed of the river. This survey was continued during the course of one year at different seasons and the table given below shows details of the survey so conducted and the species of the mosquitoes hatched out from the larvæ collected.

| River Cooum.                                               | 1st Inspection,<br>February and<br>March 1915. | 2nd Inspection,<br>July and<br>August 1915. | 3rd Inspection,<br>September and<br>October 1915. | 4th Inspec-<br>tion Decem-<br>ber, 1915 and<br>January 1916. |
|------------------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|
| 1. Munro's Bridge to An-<br>derson's Bridge.               | Rossii                                         | Rossii                                      | Fuliginosus<br>Rossii                             | Fuliginosus<br>Rossii                                        |
| 2. Anderson's Bridge to<br>Commander-in Chief's<br>Bridge. | An. Rossii                                     | Culicifacies                                | Rossii<br>Culicifacies                            | Rossii<br>Fuliginosus<br>Culicifacies                        |
| 3. Commander-in-Chief's<br>Bridge to Harris Bridge.        | Rossii<br>Culicifacies                         | Rossii                                      | Fuliginosus                                       | Fuliginosus                                                  |
| 4. Harris Bridge to An-<br>drew's Bridge.                  | Culicifacies<br>Rossii                         | Rossii                                      | Culicifacies<br>Rossii                            | Culicifacies<br>Rossii                                       |
| 5. Andrew's Bridge to<br>Law's Bridge.                     | Rossii                                         | Rossii                                      | Rossii                                            | Rossii                                                       |
| 6. Law's Bridge to Go-<br>vernment House Bridge.           | Rossii                                         | Rossii                                      | Rossii<br>Culicifacies                            | Rossii<br>Culicifacies                                       |
| 7. Government House<br>Bridge to Penitentiary<br>Bridge.   | Rossii                                         | Rossii                                      | Fuliginosus<br>Rossii<br>Culicifacies             | Rossii<br>Fuliginosus                                        |
| 8. Penitentiary Bridge to<br>Wallajah Bridge.              | Rossii                                         | Rossii                                      | Fuliginosus<br>Rossii<br>Culicifacies             | Rossii<br>Fuliginosus                                        |

*Species of mosquitoes.*—It will be seen from this that by far the most common species of mosquitoes found in all parts of the Cooum River is anophelene Rossii while in certain regions malaria bearing anophelene do also breed, namely, anophelene Culicifacies and anophelene Fuliginosus. Except in sections 4 and 5 (*vide* Table) these latter mosquitoes breed at one season or other of the year. It will further be noted that till about the end of August no mosquitoes of dangerous description from a malaria point of view were found breeding in the



river except in one or two spots, whereas during the four months October to January such mosquitoes were the more common species found breeding. In other words only three species of Anophelene mosquitoes, namely, Rossil, Fuliginosus and Culicifacies were found breeding during the year of our survey and of these it is known that the two latter are very bad malaria carriers. Larvæ of Culex mosquitoes were found all over the area surveyed.

*Breeding grounds.*—The Cooum affords good many chief factors for the propagation of the mosquito species. Weedy margins, stagnant and semistagnant pools and puddles on the bed, pits formed by small excavations of earth, hollows of boats holding water for long periods and last but not least the sluggish flow of the stream itself, especially at the foliage covered edges—all these—are well known to be the ideal breeding places for the mosquito larvæ. Throughout the whole of the course of the river the water in it is fairly clear although certain amount of sewage still finds access to it, getting freely mixed and diluted with the large volume of water; so that no idea of the extent of contamination of the river water with this sewage can be formed by the naked eye, and probably not without a bacteriological examination. This is in contradistinction to the condition of the water of the Buckingham Canal at certain parts of its course in the City of Madras where mosquito life seems impossible; whereas all necessary facilities are afforded in the river Cooum for mosquito life and this in spite of thousands, if not millions, of larvicidal fish present in the river all along its length. In the sections from the Government House Bridge to Napier's Bridge on one side and Wallajah Bridge and Napier's Bridge on the other no mosquito larvæ were found and this is as expected; the sheet of water is wide and the sea breeze constantly blowing upon keeps the water in such constant wave motion causing ripples to be formed all along the edges of the water course that larvæ life appears impossible even if introduced accidentally.

*Probable danger to parts of Madras.*—In a rapid survey made by Captain Hodgson, I.M.S., and reported upon by him it was found that parts of Madras in close proximity of the river were not malaria ridden in spite of the above noted conditions and this cannot always be hoped to exist. For according to the malaria survey conducted during 1915 there is always a risk of a spread of malarial fevers in parts of Kilpauk, Mount Road, Pudurpet, Komaleswarampet and Chintadripet parts of Madras on the close bank of the river; or at least it can be said there are a number of foci from which malaria may at any time burst forth into a severe form. Hence the need for improving or rather eradicating all possible mosquito breeding grounds irrespective of whether malaria is or is not prevalent at any particular period in question.

*Remedial measures.*—With this end in view the following remedial measures are suggested:—

1. Maintenance of clean cut sloping edges so that no puddles are left over the bed of the river as water recedes.
2. Reclamation of existing puddles and pools.



3. Maintenance of a watch against digging of pits and removal of earth from the sloping banks and the bed of the river.
4. Prevention of flow of sewage into the river as far as possible.
5. Maintenance of a gang of men to keep the water edges of the stream clear of all foliage, *i.e.*, weeds, moss, grass, etc., and
6. Maintenance of a central stream in the place of the disjointed and the scattered sections along the course of the river.

K. RAGHAVENDRA RAO, B.A., M.B. & C.M.,  
Special Malaria Officer, C.M.

#### APPENDIX "4."

##### *A report on the use of larvicidal fish in the wells and ponds in the City of Madras.*

Though it has been recognised for some years past that certain kinds of fish play an important part in regulating and diminishing the degree of malarial infection in any locality, and though various Zoologists and Medical Officers in India had pointed out from time to time that there are in this country several species of fish which feed on mosquito larvæ, yet the subject did not evoke the attention it merited until five or six years ago, when Captain Sewell, I.M.S., and Mr. Chaudhuri, B. Sc., conducted a series of experiments in this direction and noted the following interesting facts :—

"The various species of fish that we have found to be of considerable utility in destroying the mosquito larvae belong to eight different genera in some cases, as the genus *Haplochilus*, all the species are of equal utility, in others, however as *barbus*, certain species are of much greater use than others. The difference is dependent very largely on the question of the size of adult fish, for it is obvious the smaller the species the more likely it will be to feed on such minute forms of life as mosquito larvæ, and we know that the young 'fry' of many of the larger forms devour these insects readily, although the adult gives up this habit in favour of some other diet more suited to increased bulk."

Of these several forms, the following are found in abundance in almost every pond or tank in and around the City of Madras :—

| <i>Genus.</i> |                    |     |     | <i>Species.</i>                 |
|---------------|--------------------|-----|-----|---------------------------------|
| 1.            | <i>Haplochilus</i> | ... | ... | (a) <i>Panchax</i> .            |
|               |                    |     |     | (b) <i>Melanostigma</i> .       |
| 2.            | <i>Chela</i>       | ... | ... | <i>Chela</i> <i>Argentia</i> .  |
| 3.            | <i>Therapon</i>    | ... | ... | <i>Therapon</i> <i>Jarbua</i> . |



They are all hardy little fish and stand transfer from place to place extremely well. Further they can be acclimatised to live in brackish as well as fresh water.

A short description of each of these would not be put out of place here:—

1. *Haplochilus*—The body is elongated, oval, depressed from above downwards anteriorly and flattened from side to side in the tail region. Head flat and snout shovel shaped; mouth horizontal, both jaws of equal length, teeth villiform in the jaws, present or absent in the palate; dorsal fin short commencing behind the origin of anal fin, which latter has an elongated base. Caudal fin has a bluntly pointed edge.

(a) *Haplochilus Panchax* (Tamil *Kulla Cundee*).—A small fish of two or three inches in length, greenish to olive in the upper surface fading into dull white on the sides and has usually a brilliant silvery spot on the occiput.

(b) *Haplochilus Melanostigma* (Munda *Cannu Tamil*).—The adult fish is an inch and a half long and while in the main resembling the previous one, it is distinguished by having a much more transparent appearance and by the possession of a narrow dark line along the side terminating behind in a dark spot at the base of the caudal fin.

These two varieties are the chief fresh water fishes indigenous in every pond and tank in the City of Madras and appear to be peculiarly suited for larval destruction by their small size, their frequenting the surface of the water constantly and their possessing a very flat head, the surface of which is kept almost in a level with the plane of water when they swim about in their natural surroundings. The anophelene larvæ which also subsists in a horizontal posture on a level with the plane of water appear to fall an easy prey to these fish. Of these two varieties again the *haplochilus melanostigma* seems to be much more active and voracious animal. At least it is so in captivity.

2. *Chela*.—A species of fish attaining a length of 5 to 6 inches with a rather elongated and compressed body. Abdominal edge cutting; mouth directed somewhat upwards with the lower jaw prominent and generally with a knob above symphysis. Barbels absent; Pharyngeal hooked and slender. Doral fin is short situated principally and entirely opposite the anal, which latter has an elongated base. Pectorals long. Caudal forked. Lateral concave.

*Chela Argentia* (Tamil, *Vellache Cundee*) is silvery in colour with a lateral band which fades after death and the pectoral fin reaches the ventral; caudal dark edged as is also occasionally the anal.

These also are usually fresh water fish and being surface feeders their chief diet consists of flies and larvæ. All species are efficient as larvicidal agents especially the smaller ones. These are more suitable for tanks, big ponds and swamps, and are in fact found in large numbers soon after the monsoon.



*Therapon*.—Branchiostigals six, eyes of moderate size, opercle with spines. Preopercle and sometimes preorbital serrated, teeth villiform in both jaws; deciduous ones on vomer and palatiness, Dorsal fin single, but more or less notched. Air vessel divided by a constriction.

*Therapon Farbua* (Tamil, *Palin Keecham*). A common fish in the estuaries of India and in the tidal backwater of Ennore attaining a size of 12 to 13 inches. Colour; black, bluish grey becoming white on abdomen, a tinge of gold along cheeks and snout; three longitudinal reddish brown bands, having a slight convexity downwards on each side and sometimes there is a fourth band along the abdomen. Ventral and anal fins have a yellow tinge along their centre. Eyes yellowish red.

These fishes in India are marine but some are occasionally found in brackish water within tidal influence; they may even live temporarily in brackish or even fresh water ponds.

Although these fish are definitely proved to be the natural enemies of mosquito larvæ, yet there is a limit to their usefulness as larvicidal agents for there may be many mosquito breeding places unsuited for fish life and even suitable waters surface, weeds, etc., afford shelter to the larvæ which can escape from the ravages of these fish. This is just the condition of many a pond and tank in Madras where anophelene larvæ breed in thousands in spite of these fish.

It was desired that the utility of these fish be first tried, in places which, while forming breeding grounds for mosquito larvæ, are yet capable of being treated by this conservative measure. It is with this end in view that the domestic wells in the City of Madras were selected. It has been amply demonstrated that these wells, the water from which is rarely or never drawn except when the tap fails, do breed the larvæ of certain forms of mosquitoes for example anophelene *Rossii*; anophelene *Barbirostris* and anophelene *Stephensii*; the last of which is known as a malaria carrier.

To conserve wells and yet make them innocuous in this direction, even without the necessity of filling up or covering the mouth of a well, was the object with which the malaria department of the Corporation inaugurated in May 1913, the introduction of these larvicidal fish in all wells in the first three divisions where malaria was then raging. At the commencement the staff consisted of a single fisherman only and a small charge was levied upon the owner of the well for the fish introduced. Whether or not it was due to the inadequacy of the staff or the unpopularity of the system of payment, the fact remained that the work made very little progress, and Captain Hodgson, I.M.S., after he took charge of his office on 17th November 1913, abolished this system of payment and also increased the staff to four fishermen. He conducted a rapid survey of wells into which fish were introduced and finding that the results were encouraging requested the Standing Committee of the Corporation for an establishment of 26 fishermen and 30 coolies. This staff was Sanctioned by the Standing Committee in their resolution 56, dated 28th August 1914 and this enabled the work to be extended to the other malarial zones, *viz.*, Pursawakam and Mylapore. Soon after I took charge,



the above staff had to be reduced to 17 men and 17 coolies on account of many irregularities of attendance and work on the part of the other men. The following figures indicate the number of wells treated with fish till the end of May 1915 :—

| Division.    |     |     |     |     | No. of wells. |
|--------------|-----|-----|-----|-----|---------------|
| Tondiarpet   | ... | ... | ... | ... | 2,198         |
| Pursawakam   | ... | ... | ... | ... | 649           |
| Mylapore     | ... | ... | ... | ... | 713           |
| Vepery       | ... | ... | ... | ... | 455           |
| Perambur     | ... | ... | ... | ... | 20            |
| Georgetown   | ... | ... | ... | ... | 6,054         |
| Egmore       | ... | ... | ... | ... | 502           |
| Chintadripet | ... | ... | ... | ... | 501           |
| Total...     |     |     |     |     | 11,092        |

In the months of January and February and again in May last, I undertook an extensive survey of these wells with a twofold object, firstly of investigating what the factors were that bear on the life and activity of these fish in their new surroundings and secondly of ascertaining to what extent the fish had rendered the wells innocuous. A fairly long time was allowed to elapse between the introduction of fish into a well and its subsequent examination and in no case was there an interval of less than a month. 6 to 12 domestic wells were selected at random in each street and examined for larvæ and out of 392 wells examined in only 103 or 7·4 per cent. were anophelene larvæ found and in all these (except the 103) fish were observed to be alive and lively. In the 103 wells noted above fish were not seen being apparently dead and in all of these *Culex* and anophelene larvæ were obtained. The anophelenes were mostly *Rossii* and *Stephensii* and in some instances *Barbirostris*. The water in these wells was invariably foul and covered over with leaves, weeds, etc.

Some or all of the following causes appear to have contributed towards the extinction of the fish introduced in these wells and steps are being taken to remove remediable causes as far as possible :—

1. *Too sudden change of natural surroundings*—as from a too rapid transference of them from fresh water to brackish water and *vice versa*. The fishermen usually catch fish the previous evening or early morning and introduce them straight off into wells before midday, and in the case of many parts of Madras the existence of the Cooum close by is a great and almost irresistible temptation for the fishermen to obtain their stock from that source only and introduce them indiscriminately to fresh water and brackish wells alike. Steps are now being taken to ensure that the stock for fresh water wells is obtained from fresh water sources only.

2. *Too foul water*.—In some of the wells investigated, the water was covered over with a sort of glistening oily scum and more akin to sewage water than anything else and the well was full of moss and other noxious vegetation. During a



search for larvæ in the Buckingham Canal, it was noticed that whereas these fish were swarming in hundreds in the canal region between the bridge in Pycroft's Road and the Barber's Bridge where the foulness of water is not great, they were conspicuous by their total absence to the north of the former bridge as far as the Cooum where the water of the canal has the appearance and stench of ordinary sewage. To remedy this it would be necessary to ensure cleanliness of water by such measures as complete baling out of water before fish are introduced or by one or other of the commonly used precipitation methods.

3. *Too great overcrowding.*—A large number of these adult fish, say from 50 to 60, are sometimes let in a well of 3 or 4 feet in diameter by the cooly who requires constant supervision and checking and this large number would die merely for want of sufficient food and room. Steps have been taken to prevent such over-crowding.

4. *Survival of the fittest.*—In certain wells these small fish were introduced unconscious of the existence of some big fish. The latter would certainly eat the former. Some people, under the impression that they will not be required to fill up the wells in their lands if fish of any sort are introduced into them, put in large fish into their wells apparently under the impression that the larger the fish, the more efficient it ought to be. Personally I myself have seen some of these big fish in a few wells examined. In such cases it is proposed to get the big fish removed by our staff before these larvicidal fish are introduced.

5. *Non-access of free sunshine and air.*—As in cases where the wells are situated in places completely barred from access to free sunshine and air or in cases where the mouth of the well was covered over after the fish were introduced. In these places, if arrangements could not be made to allow sunshine and free air, the only remedy will be either to fill up the well or hermetically seal the mouth of the well.

As is shown by the figures for wells to which the fish took kindly the results of this anti-malarial measure are encouraging, and if all the remedial measures suggested above succeed in stopping fish extinction in the said wells, the result may be even more encouraging. For one cause or other it has been found that in the City of Madras radical measures such as the filling up of wells, ponds, etc., cannot be accomplished and in a certain number of cases it is deemed neither necessary nor desirable. Granted then that radical measures are not feasible, it follows that conservative measures of some sort have to be adopted. Introduction of cresol and oil and poisonous substances have been tried with very little success, but the introduction of fish seems to be the most expedient method at present. It combines in itself the positive advantage of popularity with the negative advantage of not rendering the water unfit for domestic use. This latter is a much valued privilege in the city so long as the present condition of precarious water-supply continues and it is not easy to convince the average citizen that the improved water supply will soon put an end to these troubles. Moreover, in a well treated with oil, cresol, etc., all fish life is impossible while a previous fish introduction would not interfere with subsequent treatment with these chemicals should it be deemed necessary.



It is therefore decided to stop petrolising wells in the whole city and introduce larvicidal fish and a gang of one maistry and ten fishermen are engaged to carry out this work over the whole of Madras during the year 1915-16. A survey of all wells in a division in which fish are introduced will be undertaken after three or four weeks' time and in the case of those wells where fish are absent or dead, causes inimical to fish life will, if ascertained, be removed and the fish introduced a second time, and secure them into as many wells as possible in this city. The majority of the public have now little or no objection to this measure and the fact that the work is done free of cost to the owner contributes in no small degree to the popularity of this measure. In the cases of those few that object to this procedure even, no alternative is left but to ask them to fill up the well or hermetically cover the mouth of the well with the result that in a number of cases they choose what they deem to be the lesser of the two evils and allow the introduction of fish.

So much for the treatment of wells. The analogous treatment of ponds, tanks and swamps is by no means encouraging for there yet remains the question 'how to treat these' ? where in spite of the presence of shoals of these fish, anophelene larvæ breed in hundreds. This, as said above, is mostly the outcome of the inability of the fish to get access to those minute larvæ which find an easy shelter in the moss and weeds usually present in those places. It was therefore found necessary to conserve such waters by the removal of surface weeds and floating debris near the margins which should be trimmed and overhanging plants that reach to the surface of the water should be cut back as these tend to hold debris and protect the larvæ. In the case of big tanks and wide sheets of water mosquito larvæ are usually absent on account of the wave action except in selected secluded shallows where the water is more or less stagnant. But these are dangerous in so far that, on account of the unevenness of the foreshore as water recedes, small puddles are left behind which are inaccessible to fish. And for the same reason tanks which are cleaned once are covered with moss, weeds, etc., along the edge in from two to three weeks and give the necessary nidus for the breeding of mosquito larvæ. It is therefore essential that if fish are to be of any use as a larvicide, strict measures should be adopted to keep these tanks wholly clean of weeds, etc. At present, these ponds and tanks are being periodically cleaned by the Special Malaria Department; to keep them clean to the desired extent, would require the upkeep of a large permanent staff, whose continued maintenance for an unlimited time could be a serious question for the consideration of the Corporation.

K. RAGHAVENDRA RAO,

B.A., M.B. & C.M.,  
*Special Malaria Officer.*



## APPENDIX 'B.'

Statement showing the expenditure under various headings for the year 1915.

| Months.                     | ESTABLISHMENT.                                            |                                                       |                    | Amount spent for filling, cost of petrol, repairing charges, to lorries for Anti-Malarial Reclamation work. |             |           | Oiling, cleaning, Fishermen, bush-cutting and purchase of liquid fuel. |             |               | Stationery, Printing and Laboratory equipments. |           |           | Contingencies and rent of buildings, etc. |           |           | Grass Farm. |           |           | Total.    |           |           |
|-----------------------------|-----------------------------------------------------------|-------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------|-------------|-----------|------------------------------------------------------------------------|-------------|---------------|-------------------------------------------------|-----------|-----------|-------------------------------------------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|
|                             | Investigation, Prevention, and Treatment and Lorry Staff. | Lorry Staff for Conservancy work and repairs thereof. | Engineering Staff. |                                                                                                             |             |           |                                                                        |             |               |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| 1                           | 2                                                         | 3                                                     | 4                  | 5                                                                                                           |             |           | 6                                                                      |             |               | 7                                               |           |           | 8                                         |           |           | 8           |           |           | 10        |           |           |
|                             | Rs. A. P.                                                 | Rs. A. P.                                             | Rs. A. P.          | Rs. A. P.                                                                                                   | Rs. A. P.   | Rs. A. P. | Rs. A. P.                                                              | Rs. A. P.   | Rs. A. P.     | Rs. A. P.                                       | Rs. A. P. | Rs. A. P. | Rs. A. P.                                 | Rs. A. P. | Rs. A. P. | Rs. A. P.   | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| January                     | 5,394 14 0                                                | Nil.                                                  | 255 4 2            | 3,565 6 3                                                                                                   | 5,120 12 5  | 66 12 10  | 823 8 11                                                               | 4,150 6 7   | 19,377 1 2    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| February                    | 3,920 15 1                                                | Nil.                                                  | 250 11 11          | 3,335 12 0                                                                                                  | 2,864 5 7   | 67 14 9   | 2,836 9 1                                                              | 3,803 4 9   | 17,079 9 2    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| March                       | 2,881 14 2                                                | Nil.                                                  | 264 1 2            | 2,511 13 7                                                                                                  | 2,306 4 9   | 41 13 3   | 3,137 8 5                                                              | 4,468 2 3   | 15,611 9 7    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| April                       | 2,733 10 7                                                | 83 2 2                                                | 624 12 5           | 1,687 1 5                                                                                                   | 1,639 5 4   | Nil.      | 382 3 9                                                                | 2,726 6 6   | 9,876 10 2    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| May                         | 2,141 6 1                                                 | 116 0 0                                               | 1,839 13 1         | 1,863 14 0                                                                                                  | 1,830 14 11 | 6 8 1     | 723 2 5                                                                | 3,256 6 6   | 11,778 1 1    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| June                        | 2,002 14 10                                               | 971 10 10                                             | 1,882 2 10         | 1,068 8 7                                                                                                   | 1,190 13 9  | 176 7 3   | 136 6 6                                                                | 3,015 5 0   | 10,444 5 7    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| July                        | 2,110 12 1                                                | 490 5 1                                               | 1,978 13 9         | 1,940 15 0                                                                                                  | 1,197 13 8  | 1 6 3     | 512 2 9                                                                | 2,573 7 8   | 10,805 12 3   |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| August                      | 2,148 5 7                                                 | 732 2 10                                              | 1,452 6 10         | 1,667 7 0                                                                                                   | 1,647 2 9   | 81 5 1    | 537 12 10                                                              | 2,176 14 1  | 10,463 9 0    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| September                   | 1,995 6 9                                                 | 1,806 15 9                                            | 1,417 11 4         | 4,326 5 8                                                                                                   | 1,254 4 0   | 16 12 7   | 1,004 11 1                                                             | 1,935 13 5  | 13,788 0 7    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| October                     | 2,126 1 9                                                 | 472 7 7                                               | 1,419 5 10         | 1,980 8 0                                                                                                   | 1,185 6 3   | 4 1 5     | 136 9 11                                                               | 2,103 11 4  | 9,428 4 1     |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| November                    | 1,967 8 9                                                 | 471 12 4                                              | 1,486 14 3         | 2,359 13 6                                                                                                  | 1,389 7 8   | 12 1 3    | 1,405 11 0                                                             | 2,185 5 0   | 11,278 9 9    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| December                    | 2,013 3 1                                                 | 475 7 6                                               | 1,403 3 7          | 1,592 4 0                                                                                                   | 1,653 7 1   | Nil.      | 175 14 5                                                               | 3,020 10 5  | 10,334 2 1    |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| Total expenditure for 1915. | 31,437 0 9                                                | 5,640 0 1                                             | 14,305 5 2         | 27,899 13 0                                                                                                 | 23,280 2 2  | 475 2 9   | 11,812 5 1                                                             | 35,415 13 6 | 1,50,265 10 6 |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |
| Total expenditure for 1914. | 57,132 15 3                                               | Nil.                                                  | 2,228 9 9          | 28,427 6 5                                                                                                  | 48,977 9 7  | 2,844 7 0 | 59,983 10 8*                                                           | 40,171 13 3 | 2,39,766 7 11 |                                                 |           |           |                                           |           |           |             |           |           |           |           |           |

\* N.B.—The expenditure under contingencies have exceeded owing to the purchase of four Motor Lorries at a cost of Rs. 12,207-8-0, each.

K. RAGHAVENDRA ROW, B.A., M.B. & C.M.,  
Special Malaria Officer, C.M.



## APPENDIX 'G.'

Tondiarpet (1st, 2nd and 3rd Divisions of Madras).

| —                          | Years. | Jan'y. | Feb'y. | March. | April. | May.  | June. | July. | Aug.  | Sept. | Oct.  | Nov.  | Dec.   | Total. | Per mille. | Remarks.                          |
|----------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|------------|-----------------------------------|
| Total number of treatments | 1915   | 8,913  | 8,622  | 6,987  | 5,107  | 5,023 | 4,121 | 5,004 | 5,163 | 5,875 | 5,499 | 5,112 | 5,101  | 70,527 | ...        |                                   |
| Do                         | 1914   | 8,888  | 5,105  | 4,796  | 2,134  | 1,824 | 1,632 | 6,024 | 6,081 | 6,578 | 7,910 | 8,831 | 10,136 | 64,739 | ...        |                                   |
| Fresh infections           | 1915   | 595    | 535    | 518    | 446    | 469   | 480   | 521   | 628   | 637   | 599   | 564   | 605    | 6,597  | ...        |                                   |
| Do                         | 1914   | 1,734  | 1,942  | 2,384  | 1,209  | 1,217 | 883   | 222   | 527   | 722   | 854   | 808   | 659    | 13,261 | ...        |                                   |
| Total deaths during        | 1915   | 355    | 290    | 417    | 260    | 224   | 231   | 218   | 310   | 361   | 240   | 195   | 283    | 3,384  | 44.5       |                                   |
| Do                         | 1914   | 377    | 304    | 281    | 250    | 243   | 227   | 285   | 383   | 517   | 443   | 336   | 403    | 4,049  | 53.2       |                                   |
| Average for ten years      | ...    | 376    | 324    | 347    | 269    | 285   | 287   | 335   | 444   | 431   | 362   | 343   | 364    | 4,167  | 54.8       |                                   |
| Fever deaths during        | 1915   | 86     | 73     | 118    | 91     | 59    | 54    | 42    | 65    | 71    | 59    | 39    | 56     | 813    | 10.7       |                                   |
| Do                         | 1914   | 102    | 75     | 72     | 47     | 65    | 43    | 55    | 83    | 132   | 89    | 76    | 96     | 935    | 12.3       |                                   |
| Average for ten years      | ...    | 88     | 79     | 84     | 72     | 79    | 72    | 75    | 96    | 97    | 88    | 84    | 91     | 1,005  | 13.2       |                                   |
| Infantile deaths during    | 1915   | 113    | 84     | 95     | 60     | 55    | 69    | 66    | 87    | 89    | 47    | 56    | 73     | 894    | 327.6      | Per 1000<br>births<br>registered. |
| Do                         | 1914   | 87     | 75     | 67     | 81     | 70    | 55    | 71    | 86    | 96    | 76    | 43    | 121    | 928    | 332.4      |                                   |
| Average for ten years      | ...    | 105    | 87     | 87     | 78     | 93    | 89    | 94    | 104   | 92    | 89    | 82    | 95     | 1,095  | 358.5      |                                   |

*Pursawakam (11th Division).*

| —                          | Year. | Jany. | Feb.  | March | April. | May.  | June. | July. | Aug.  | Sept. | Oct.  | Nov.  | Dec.  | Total. | Per mille. | Remarks.                    |
|----------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------------|-----------------------------|
| Total number of treatments | 1915  | 4,561 | 4,688 | 4,237 | 3,875  | 2,735 | 3,129 | 3,074 | 2,984 | 2,835 | 3,102 | 2,292 | 2,288 | 39,800 | ...        |                             |
| Do                         | 1914  | 240   | 223   | 581   | 704    | 5,850 | 7,761 | 5,711 | 4,296 | 4,250 | 3,906 | 4,904 | 5,401 | 43,827 | ...        |                             |
| Fresh infections           | 1915  | 260   | 221   | 154   | 200    | 151   | 228   | 231   | 145   | 175   | 159   | 168   | 227   | 2,319  | ...        |                             |
| Do                         | 1914  | 148   | 190   | 185   | 801    | 3,660 | 4,835 | 344   | 263   | 199   | 323   | 465   | 265   | 11,678 | ...        |                             |
| Total deaths during        | 1915  | 125   | 109   | 158   | 97     | 105   | 106   | 101   | 136   | 161   | 89    | 95    | 131   | 1,413  | 34.0       |                             |
| Do                         | 1914  | 194   | 166   | 159   | 160    | 192   | 151   | 150   | 127   | 208   | 310   | 159   | 167   | 2,143  | 51.6       |                             |
| Average for ten years      | ...   | 154   | 135   | 132   | 122    | 122   | 117   | 129   | 173   | 164   | 146   | 127   | 155   | 1,676  | 40.4       |                             |
| Fever deaths during        | 1915  | 15    | 9     | 25    | 16     | 17    | 8     | 10    | 14    | 20    | 8     | 13    | 20    | 175    | 4.2        |                             |
| Do                         | 1914  | 10    | 18    | 10    | 15     | 41    | 41    | 32    | 18    | 30    | 17    | 25    | 31    | 308    | 7.5        |                             |
| Average for ten years      | ...   | 29    | 25    | 27    | 21     | 20    | 22    | 21    | 30    | 32    | 25    | 21    | 29    | 302    | 7.3        |                             |
| Infantile deaths           | 1915  | 40    | 23    | 43    | 27     | 23    | 27    | 37    | 46    | 50    | 24    | 39    | 47    | 431    | 269.8      |                             |
| Do                         | 1914  | 64    | 35    | 46    | 48     | 64    | 39    | 40    | 36    | 58    | 50    | 24    | 48    | 552    | 358.0      | Per 1000 births registered. |
| Average for ten years      | ...   | 43    | 36    | 37    | 39     | 41    | 36    | 43    | 47    | 46    | 45    | 39    | 47    | 499    | 299.2      |                             |



## Mylapore (19th Division).

| —                          | Year. | Jan.  | Feb.  | March. | April. | May.  | June. | July. | Aug. | Sept. | Oct.  | Nov.  | Dec.  | Total. | Per mille. | Remarks.                          |
|----------------------------|-------|-------|-------|--------|--------|-------|-------|-------|------|-------|-------|-------|-------|--------|------------|-----------------------------------|
| Total number of treatments | 1915  | 1,906 | 1,622 | 867    | 564    | 527   | 637   | 706   | 861  | 768   | 594   | 359   | 547   | 9,958  | ...        |                                   |
| Do                         | 1914  | 1,079 | 627   | 1,386  | 1,162  | 1,277 | 1,062 | 1,021 | 985  | 1,689 | 1,756 | 2,499 | 2,277 | 16,820 | ...        |                                   |
| Fresh infections           | 1915  | 323   | 230   | 79     | 44     | 27    | 96    | 244   | 319  | 315   | 232   | 172   | 235   | 2,316  | ...        |                                   |
| Do                         | 1914  | 284   | 231   | 639    | 437    | 558   | 510   | 531   | 276  | 290   | 338   | 533   | 396   | 5,023  | ...        |                                   |
| Total deaths during        | 1915  | 103   | 94    | 134    | 88     | 94    | 98    | 112   | 98   | 121   | 94    | 88    | 107   | 1,231  | 35.8       |                                   |
| Do                         | 1914  | 205   | 182   | 111    | 104    | 114   | 98    | 89    | 131  | 183   | 242   | 132   | 116   | 1,708  | 48.8       |                                   |
| Average for ten years      | ...   | 100   | 89    | 89     | 20     | 23    | 84    | 96    | 105  | 96    | 102   | 95    | 106   | 1,005  | 33.4       |                                   |
| Fever deaths during        | 1915  | 5     | 13    | 9      | 6      | 10    | 7     | 5     | 5    | 5     | 5     | 3     | 10    | 83     | 2.4        |                                   |
| Do                         | 1914  | 21    | 10    | 16     | 13     | 14    | 19    | 15    | 17   | 22    | 17    | 13    | 6     | 183    | 5.1        |                                   |
| Average for ten years      | ...   | 20    | 19    | 20     | 20     | 23    | 23    | 17    | 18   | 20    | 20    | 19    | 18    | 237    | 6.9        |                                   |
| Infantile deaths during    | 1915  | 34    | 25    | 31     | 27     | 21    | 21    | 31    | 29   | 35    | 25    | 26    | 26    | 331    | 253.8      | Per 1000<br>births<br>registered. |
| Do                         | 1914  | 41    | 27    | 25     | 34     | 38    | 23    | 25    | 26   | 37    | 31    | 28    | 26    | 359    | 295.0      |                                   |
| Average for ten years      | ...   | 32    | 23    | 27     | 27     | 26    | 26    | 29    | 34   | 32    | 39    | 30    | 33    | 358    | 313.2      |                                   |

K. RAGHAVENDRA RAU, B.A., M.B. & C.M.,  
Special Malaria Officer.

## APPENDIX '7'.

Statement showing the tanks re-cleaned during the year 1915.

| Serial No.           | Block No. | Tank No. | R. S. No. | 1st quarter.             | 2nd quarter.             | 3rd quarter.             | 4th quarter.             | Total Number of times cleaned for the whole year. | Remarks. |
|----------------------|-----------|----------|-----------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------------------|----------|
|                      |           |          |           | Number of times cleaned. | Number of times cleaned. | Number of times cleaned. | Number of times cleaned. |                                                   |          |
| Tondiarpet Division. |           |          |           |                          |                          |                          |                          |                                                   |          |
| 1                    | 78        | 2        | 4059      | 2                        | 1                        | 2                        | ...                      | 5                                                 |          |
| 2                    | "         | 3        | 4061      | 2                        | 1                        | 2                        | ...                      | 5                                                 |          |
| 3                    | "         | 5        | 4061      | 1                        | 1                        | 2                        | ...                      | 4                                                 |          |
| 4                    | "         | 6        | 4061      | 2                        | 1                        | 2                        | ...                      | 5                                                 |          |
| 5                    | "         | 7        | 4058      | 2                        | 1                        | 2                        | ...                      | 5                                                 |          |
| 6                    | "         | 9        | 4056      | 1                        | 1                        | ...                      | ...                      | 2                                                 |          |
| 7                    | "         | 10       | 4055      | 1                        | 1                        | ...                      | ...                      | 2                                                 |          |
| 8                    | "         | 11       | 4063      | 1                        | 1                        | 2                        | ...                      | 4                                                 |          |
| 9                    | "         | 12       | 4055      | 1                        | 1                        | 2                        | ...                      | 4                                                 |          |
| 10                   | "         | 1        | 4059      | 1                        | 1                        | 2                        | ...                      | 4                                                 |          |
| 11                   | 69-B      | 2        | 3372      | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 12                   | 69-D      | 1        | 3873      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 13                   | "         | 2        | 3873      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 14                   | "         | 3        | 3873      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 15                   | 77-A      | 1        | 4035      | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 16                   | "         | 2        | 4035      | 3                        | 2                        | ...                      | 1                        | 6                                                 |          |
| 17                   | "         | 3        | 4035      | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 18                   | "         | 4        | 4034      | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 19                   | "         | 5        | 4034      | 3                        | 2                        | ...                      | 1                        | 6                                                 |          |
| 20                   | 77-B      | 1        | 4052      | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 21                   | "         | 2        | 4036      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 22                   | "         | 4        | 4035      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 23                   | "         | 5        | 4036      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 24                   | "         | 6        | 4033      | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 25                   | "         | 6-A      | 4033      | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 26                   | "         | 7        | 4050/3    | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |



| Serial No. | Block No. | Tank No. | R. S. No.                        | 1st quarter.             | 2nd quarter.             | 3rd quarter.             | 4th quarter.             | Total Number of times cleaned for the whole year. | Remarks. |
|------------|-----------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------------------|----------|
|            |           |          |                                  | Number of times cleaned. | Number of times cleaned. | Number of times cleaned. | Number of times cleaned. |                                                   |          |
|            |           |          | Tondiarpet Division—(Continued). |                          |                          |                          |                          |                                                   |          |
| 27         | 77-B      | 9        | 4050/2                           | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 28         | "         | 10       | 4059                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 29         | 77-C      | 1        | 4040                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 30         | "         | 2        | 4032                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 31         | "         | 3        | 4031                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 32         | "         | 5        | 4032                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 33         | "         | 6        | 4033                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 34         | "         | 7        | 4039                             | 2                        | 2                        | ...                      | 1                        | 5                                                 |          |
| 35         | "         | 8        | 4039                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 36         | "         | 9        | 4040                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 37         | 77-D      | 1        | 4048                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 38         | "         | 2        | 4046                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 39         | "         | 3        | 4038                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 40         | "         | 4        | 4039                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 41         | "         | 5        | 4040                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 42         | "         | 6        | 4040                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 43         | "         | 7        | 4043                             | 1                        | 2                        | ...                      | 1                        | 4                                                 |          |
| 44         | 79-B      | 1        | 4066                             | 1                        | ...                      | ...                      | ...                      | 1                                                 |          |
| 45         | "         | 2        | 4066                             | 1                        | 1                        | 1                        | ...                      | 3                                                 |          |
| 46         | 79-C      | 1        | 4139                             | 1                        | ...                      | ...                      | ...                      | 1                                                 |          |
| 47         | 79-D      | 2        | 4139                             | 1                        | 1                        | ...                      | ...                      | 2                                                 |          |
| 48         | 51-A      | 1        | 3482                             | 1                        | 1                        | 1                        | ...                      | 3                                                 |          |
| 49         | "         | 2        | 3482                             | 1                        | 1                        | 1                        | ...                      | 3                                                 |          |
| 50         | "         | 3        | 3481                             | 1                        | 1                        | ...                      | ...                      | 2                                                 |          |
| 51         | "         | 4        | 3481                             | 1                        | ...                      | ...                      | ...                      | 1                                                 |          |
| 52         | 51-B      | 1        | 3480                             | 1                        | 1                        | 1                        | ...                      | 3                                                 |          |
| 53         | "         | 2        | 3478                             | 1                        | 1                        | 1                        | ...                      | 3                                                 |          |

| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 54                               | 51-B      | 3        | 3479      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 55                               | "         | 4        | 3477      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 56                               | 76-A      | 1        | 3976      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 57                               | "         | 2        | 3973      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 58                               | "         | 3        | 3973      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 59                               | "         | 4        | 3972      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 60                               | "         | 5        | 3972      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 61                               | "         | 6        | 3972      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 62                               | "         | 7        | 3972      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 63                               | "         | 8        | 3973      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 64                               | "         | 9        | 3977      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 65                               | 76-B      | 1        | 3977      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 66                               | "         | 2        | 3977      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 67                               | "         | 3        | 3977      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 68                               | "         | 4        | 3977      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 69                               | "         | 5        | 3978      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 70                               | "         | 6        | 3911      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 71                               | "         | 7        | 3911      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 72                               | "         | 8        | 3911      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 73                               | "         | 9        | 3911      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 74                               | 80-B      | 1        | 4290      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 75                               | 80-C      | 1        | 4290      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 76                               | 81-A      | 1        | 4310      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 77                               | 81-B      | 3        | 4380      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 78                               | "         | 4        | 4380      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 79                               | 81-C      | 1        | 4310      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 80                               | "         | 2        | 4313      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |



| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 81                               | 81-D      | 1        | 4317      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 82                               | "         | 2        | 4319      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 83                               | "         | 5        | 4317      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 84                               | 75-A      | 1        | 3953      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 85                               | "         | 2        | 3953      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 86                               | "         | 3        | 3953      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 87                               | "         | 4        | 3953      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 88                               | "         | 5        | 3953      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 89                               | "         | 7        | 3955      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 90                               | "         | 8        | 3964      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 91                               | "         | 9        | 3967      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 92                               | "         | 11       | 3968      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 93                               | "         | 12       | 3969      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 94                               | "         | 13       | 3911      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 95                               | "         | 14       | 3920/2    | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 96                               | 75-B      | 1        | 3957      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 97                               | "         | 2        | 3956      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 98                               | "         | 4        | 3955      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 99                               | "         | 5        | 3957      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 100                              | "         | 6        | 3957      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 101                              | "         | 7        | 3958      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 102                              | 74-A      | 1        | 3951      | 1                     | 2                     | 1                     | 1                     | 5                                              |          |
| 103                              | "         | 2        | 3949      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 104                              | "         | 3        | 3949      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 105                              | "         | 4        | 3949      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 106                              | "         | 5        | 3946/2    | 1                     | 2                     | ...                   | 1                     | 4                                              |          |
| 107                              | "         | 6        | 3948      | 1                     | 2                     | ...                   | 1                     | 4                                              |          |

| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st<br>quarter.             | 2nd<br>quarter.             | 3rd<br>quarter.             | 4th<br>quarter.             | Total No. of<br>times cleaned<br>for the whole<br>year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------------------------------|----------|
|                                  |           |          |           | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. |                                                         |          |
| Tondiarpet Division—(Continued). |           |          |           |                             |                             |                             |                             |                                                         |          |
| 108                              | 74-B      | 1        | 3946/1    | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 109                              | "         | 2        | "         | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 110                              | "         | 3        | "         | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 111                              | "         | 4        | 3944      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 112                              | "         | 5        | 3945      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 113                              | "         | 6        | 3945      | 1                           | 1                           | 2                           | 1                           | 5                                                       |          |
| 114                              | "         | 7        | 3945      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 115                              | "         | 8        | 3944      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 116                              | "         | 9        | 3943      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 117                              | 53-A      | 1        | 3541      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 118                              | "         | 2        | 3541      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 119                              | "         | 3        | 3537      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 120                              | "         | 4        | 3535      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 121                              | "         | 5        | 3534      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 122                              | "         | 6        | 3541      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 123                              | "         | 7        | 3537      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 124                              | "         | 8        | 3541      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 125                              | "         | 9        | 3537      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 126                              | "         | 10       | 3547      | 1                           | 1                           | ...                         | ...                         | 2                                                       |          |
| 127                              | "         | 11       | 3542      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 128                              | 53-B      | 2        | 3547      | 1                           | 1                           | ...                         | ...                         | 2                                                       |          |
| 129                              | "         | 3        | 3545      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 130                              | "         | 4        | 3547      | 1                           | 1                           | ...                         | ...                         | 2                                                       |          |
| 131                              | 53-C      | 1        | 3532      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 132                              | "         | 2        | 3530      | 1                           | 1                           | ...                         | 1                           | 3                                                       |          |
| 133                              | "         | 3        | 3548      | 1                           | ...                         | ...                         | ...                         | 1                                                       |          |
| 134                              | "         | 4        | 3547      | 1                           | 1                           | ...                         | ...                         | 2                                                       |          |



| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 135                              | 53-C      | 6        | 3555      | ...                   | 1                     | 1                     | 1                     | 3                                              |          |
| 136                              | 70-C      | 2        | 3884      | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 137                              | "         | 5        | 3883      | 1                     | 1                     | ...                   | 1                     | 3                                              |          |
| 138                              | "         | 6        | 3882      | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 139                              | 73        | 2        | 3941      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 140                              | "         | 3        | 3941      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 141                              | "         | 4        | 3941      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 142                              | "         | 5        | 3941      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 143                              | "         | 7        | 3941      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 144                              | "         | 8        | 3939      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 145                              | "         | 9        | 3939      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 146                              | "         | 10       | 3939      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 147                              | "         | 11       | 3938      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 148                              | "         | 12       | 3937      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 149                              | "         | 13       | 3936      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 150                              | "         | 14       | 3940/C    | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 151                              | "         | 15       | 3940/B    | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 152                              | "         | 16       | 3937      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 153                              | "         | 17       | 3937      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 154                              | 71-B      | 1        | 3892/6    | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 155                              | "         | 2        | 3896      | ...                   | 1                     | 1                     | 1                     | 3                                              |          |
| 156                              | "         | 3        | 3896      | ...                   | 1                     | 1                     | 1                     | 3                                              |          |
| 157                              | "         | 4        | 3892/6    | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 158                              | 71-D      | 2        | 3894      | ...                   | ...                   | 1                     | 1                     | 2                                              |          |
| 159                              | "         | 3        | 3897      | 1                     | ...                   | ...                   | 1                     | 2                                              |          |
| 160                              | "         | 4        | 3897      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 161                              | "         | 5        | 3882      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |

| Serial No.                       | Block No. | Tank No. | R. S. No.     | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |               | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |               |                       |                       |                       |                       |                                                |          |
| 162                              | 71-D      | 6        | 3892          | ...                   | ...                   | 1                     | 1                     | 2                                              |          |
| 163                              | "         | 7        | 3894          | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 164                              | "         | 8        | 3894          | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 165                              | "         | 1 Ditch  | 3892          | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 166                              | 52-A      | 7        | 3522          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 167                              | 52-C      | 1        | 3527          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 168                              | "         | 2        | 3527          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 169                              | "         | 3        | 3527          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 170                              | "         | 4        | 3528/2        | 1                     | ...                   | ...                   | ...                   | 1                                              |          |
| 171                              | 50-A      | 1        | 3465          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 172                              | "         | 2        | 3464          | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 173                              | "         | 3        | 3464          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 174                              | 72-A      | 1        | 3899          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 175                              | "         | 2        | 3900          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 176                              | "         | 3        | 3900          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 177                              | "         | 4        | 3902          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 178                              | "         | 5        | 3902          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 179                              | "         | 6        | 3902          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 180                              | "         | 7        | 3905          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 181                              | "         | 8        | 3912/1        | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 182                              | "         | 9        | "             | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 183                              | "         | 10       | 3912          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 184                              | "         | 11       | 3912<br>3 & 4 | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 185                              | "         | 12       | 3906          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 186                              | 72-B      | 1        | 3934          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 187                              | "         | 2        | 3930          | 1                     | 1                     | 1                     | ...                   | 3                                              |          |



| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 188                              | 72-B      | 3        | 3926      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 189                              | "         | 4        | 3907      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 190                              | "         | 5        | 3905      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 191                              | "         | 6        | 3903      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 192                              | "         | 7        | 3901      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 193                              | "         | 8        | 3900      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 194                              | 54-A      | 1        | 3659      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 195                              | "         | 2        | 3660      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 196                              | 54-B      | 1        | 3618      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 197                              | "         | 2        | 3618      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 198                              | 59-B      | 1        | 3822      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 199                              | "         | 2        | 3823      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 200                              | "         | 3        | 3821      | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 201                              | "         | 5        | 3823      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 202                              | "         | 6        | 3822      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 203                              | "         | 7        | 3822      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 204                              | 59-D      | 1        | 3824      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 205                              | "         | 2        | 3825      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 206                              | "         | 3        | 3825      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 207                              | "         | 4        | 3825      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 208                              | "         | 5        | 3825      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 209                              | "         | 6        | 3827      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 210                              | 45-A      | 1        | 2996      | ...                   | ...                   | 1                     | 1                     | 2                                              |          |
| 211                              | "         | 3        | 3050      | 1                     | ...                   | ...                   | ...                   | 1                                              |          |
| 212                              | "         | 4        | 3053      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 213                              | "         | 5        | 3053      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 214                              | 45-B      | 1        | 2998      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |

| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 215                              | 45-B      | 3        | 3040      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 216                              | "         | 4        | 3015      | ...                   | ...                   | 1                     | 1                     | 2                                              |          |
| 217                              | "         | 5        | 3015      | ...                   | ...                   | 1                     | 1                     | 2                                              |          |
| 218                              | 49-B      | 1        | 3307      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 219                              | "         | 2        | 3306      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 220                              | "         | 2-A      | 3303      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 221                              | 55-A      | 1        | 367       | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 222                              | "         | 4        | 3121      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 223                              | "         | 5        | 3721      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 224                              | "         | 6        | 3667      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 225                              | 55-B      | 1        | 3667      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 226                              | "         | 2        | 3713      | 1                     | 1                     | 1                     | 1                     | 4                                              |          |
| 227                              | 46-A      | 1        | 3057      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 228                              | 6-B       | 1        | 118       | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 229                              | 56-A      | 2        | 3734      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 230                              | "         | 3        | 3740      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 231                              | "         | 4        | 3741      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 232                              | "         | 5        | 3741      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 233                              | "         | 6        | 3738      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 234                              | "         | 7        | 3737      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 235                              | "         | 8        | 3736      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 236                              | "         | 9        | 3735      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 237                              | 56-B      | 1        | 3733      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 238                              | "         | 2        | 3733      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 239                              | "         | 3        | 3733      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 240                              | "         | 4        | 3733      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 241                              | "         | 5        | 3734      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |



| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st<br>quarter.             | 2nd<br>quarter.             | 3rd<br>quarter.             | 4th<br>quarter.             | Total No. of<br>times cleaned<br>for the whole<br>year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------------------------------|----------|
|                                  |           |          |           | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. |                                                         |          |
| Tondiarpet Division—(Continued). |           |          |           |                             |                             |                             |                             |                                                         |          |
| 242                              | 57-A      | 1        | 3801      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 243                              | "         | 2        | 3799      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 244                              | "         | 3        | 3800      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 245                              | "         | 4        | 3789      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 246                              | 57-B      | 1        | 3752      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 247                              | "         | 2        | 3795      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 248                              | "         | 4        | 3793      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 249                              | "         | 5        | 3756      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 250                              | "         | 6        | 3764      | 1                           | 1                           | ...                         | ...                         | 2                                                       |          |
| 251                              | "         | 7        | 3763      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 252                              | 58-A      | 1        | 3812      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 253                              | "         | 2        | 3811      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 254                              | "         | 3        | 3811      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 255                              | 58-B      | 1        | 3810      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 256                              | "         | 2        | 3802      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 257                              | "         | 3        | 3809      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 258                              | "         | 4        | 3802      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 259                              | "         | 5        | 3808      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 260                              | "         | 6        | 3808      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 261                              | "         | 7        | 3805      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 262                              | "         | 8        | 3806      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 263                              | "         | 9        | 3807      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 264                              | "         | 11       | 3813      | ...                         | ...                         | 1                           | ...                         | 1                                                       |          |
| 265                              | 19-E      | 1        | 1088      | 1                           | 1                           | 1                           | 1                           | 4                                                       |          |
| 266                              | 13-B      | 1        | 509       | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 267                              | 9         | 1        | 267       | 1                           | ...                         | 1                           | ...                         | 2                                                       |          |
| 268                              | 33-A      | 9        | 1890      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |

| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st<br>quarter.             | 2nd<br>quarter.             | 3rd<br>quarter.             | 4th<br>quarter.             | Total No. of<br>times cleaned<br>for the whole<br>year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------------------------------|----------|
|                                  |           |          |           | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. | No. of<br>times<br>cleaned. |                                                         |          |
| Tondiarpet Division—(Continued). |           |          |           |                             |                             |                             |                             |                                                         |          |
| 269                              | 33-A      | 10       | 1870      | ...                         | ...                         | 1                           | ...                         | 1                                                       |          |
| 270                              | "         | 11       | 1879      | ...                         | ...                         | 1                           | ...                         | 1                                                       |          |
| 271                              | "         | 13       | 1868      | 1                           | ...                         | ...                         | ...                         | 1                                                       |          |
| 272                              | "         | 14       | 1869      | ...                         | ...                         | 1                           | ...                         | 1                                                       |          |
| 273                              | "         | 15       | 1890      | 1                           | ...                         | ...                         | ...                         | 1                                                       |          |
| 274                              | "         | 16       | 1870      | ...                         | ...                         | 1                           | ...                         | 1                                                       |          |
| 275                              | "         | 18       | 1871      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 276                              | 33-B      | 1        | 1866      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 277                              | "         | 2        | 1364      | 1                           | 1                           | ...                         | ...                         | 2                                                       |          |
| 278                              | "         | 3        | 1867      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 279                              | "         | 4        | 1868      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 280                              | "         | 5        | 1875      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 281                              | "         | 7        | 1872      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 282                              | "         | 8        | 1880      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 283                              | 33-C      | 1 ditch  | 1890      | ...                         | ...                         | 1                           | ...                         | 1                                                       |          |
| 284                              | 24-B      | 1 tank   | 1700      | 1                           | 1                           | 2                           | 1                           | 5                                                       |          |
| 285                              | 5         | 1        | 95        | 1                           | 2                           | 1                           | 1                           | 5                                                       |          |
| 286                              | "         | 2        | 96        | 1                           | 2                           | 1                           | 1                           | 5                                                       |          |
| 287                              | 36-A      | 1        | 2082      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 288                              | "         | 2        | 2081      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 289                              | 36-B      | 1        | 2080      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 290                              | "         | 2        | 2081      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 291                              | 38-A      | 1        | 2385/1    | 1                           | ...                         | 1                           | ...                         | 2                                                       |          |
| 292                              | 41-A      | 2        | 2656      | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 293                              | 28-A      | 1        | 1802/2    | ...                         | 1                           | 1                           | ...                         | 2                                                       |          |
| 294                              | "         | 2        | 1802/1    | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |
| 295                              | "         | 3        | 1802/1    | 1                           | 1                           | 1                           | ...                         | 3                                                       |          |



| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 296                              | 28-A      | 4        | 1820/3    | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 297                              | "         | 5        | 1802/3    | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 298                              | 28-B      | 1        | 1802      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 299                              | "         | 2        | 1799      | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 300                              | 27-A      | 1        | 1790      | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 301                              | "         | 2        | 1790      | 1                     | 1                     | 1                     | ...                   | 3                                              |          |
| 302                              | "         | 3        | 1795      | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 303                              | "         | 5        | 1791      | 1                     | 1                     | ...                   | ...                   | 2                                              |          |
| 304                              | "         | ditch 3  | 1766/1    | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 305                              | "         | " 4      | 1795      | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 306                              | 27-B      | 2        | 1766      | 1                     | 2                     | 1                     | ...                   | 4                                              |          |
| 307                              | 68-B      | 1        | 3868      | ...                   | 2                     | ...                   | ...                   | 2                                              |          |
| 308                              | "         | 2        | 3869      | ...                   | 2                     | ...                   | ...                   | 2                                              |          |
| 309                              | 17 A      | 1        | 1009      | ...                   | 1                     | 1                     | 1                     | 3                                              |          |
| 310                              | 30        | 1        | 1832/1    | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 311                              | "         | 2        | 1832/2    | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 312                              | "         | ditch 1  | 1824/2    | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 313                              | "         | 2        | 1819      | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 314                              | "         | 3        | 1830      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 315                              | "         | 6        | 1836/2    | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 316                              | "         | 7        | 1824      | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 317                              | "         | 8        | 1824      | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 318                              | "         | 9        | 1824      | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 319                              | 34        | 1        | 1945      | ...                   | 1                     | 1                     | ...                   | 2                                              |          |
| 320                              | 30        | 10       | 1824/2    | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 321                              | "         | ditch 11 | 1824/3    | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 322                              | "         | 12       | 1824/3    | ...                   | ...                   | 1                     | ...                   | 1                                              |          |

| Serial No.                       | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|----------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                  |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Tondiarpet Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 323                              | 30        | 13       | 1826/2    | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 324                              | "         | 14       | "         | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 325                              | 3         | 1        | 29        | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| George Town Division.            |           |          |           |                       |                       |                       |                       |                                                |          |
| 326                              | 24        | 1        | 1686      | ...                   | 1                     | 1                     | 1                     | 3                                              |          |
| 327                              | 45        | 1        | 4977      | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| Mylapore Division.               |           |          |           |                       |                       |                       |                       |                                                |          |
| 328                              | 11        | 1        | 632       | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 329                              | "         | 2        | 629       | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 330                              | "         | 3        | 629       | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 331                              | "         | 4        | 629       | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 332                              | 22        | 1        | 1063      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 333                              | 23        | 1        | 1099      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 334                              | 24-A      | 5        | 1136      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 335                              | "         | 6        | 1147      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 336                              | "         | 7        | 1148      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 337                              | 24-B      | 2        | 1128      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 338                              | "         | 3        | 1130      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 339                              | "         | 4        | 1146      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 340                              | 36        | 2        | 1722      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 341                              | "         | 3        | 1723      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 342                              | "         | 5        | 1701      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 343                              | "         | 6        | 1706      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 344                              | "         | 7        | 1703      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 345                              | "         | 8        | 1706      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |



| Serial No.                     | Block No. | Tank No. | R. S. No. | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|--------------------------------|-----------|----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                |           |          |           | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Mylapore Division—(Continued). |           |          |           |                       |                       |                       |                       |                                                |          |
| 346                            | 36        | 8        | 1706      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 347                            | 37        | 1        | 1731      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 348                            | "         | 2        | 1734      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 349                            | "         | 3        | 1825      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 350                            | "         | 4        | 1825      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 351                            | "         | 5        | 1825      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 352                            | 37-B      | 1        | 1736      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 353                            | "         | 3        | 1825      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 354                            | "         | 4        | 1825      | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 355                            | 21        | 1        | 1037      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 356                            | 15-B      | 3        | 827       | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 357                            | 20-C      | 1 pond   | 1001      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 358                            | "         | 2        | 1001      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 359                            | 20-B      | 1        | 1003      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 360                            | 35        | 1        | 1693      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 361                            | "         | 2        | 1674      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 362                            | 33        | 1        | 1594      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 363                            | "         | 2        | 1594      | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 364                            | 25-C      | 1        | 1208      | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 365                            | 6-A       | 1        | 194       | ...                   | 1                     | ...                   | 1                     | 2                                              |          |
| 366                            | "         | 2        | 190       | ...                   | 1                     | ...                   | ...                   | 1                                              |          |
| 367                            | 31-A      | 1 pond   | ...       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 368                            | "         | 2 "      | ...       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 369                            | 31-B      | 1 "      | ...       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 370                            | "         | 2 "      | ...       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 371                            | "         | 3 "      | ...       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 372                            | "         | 1 ditch  | 1560      | ...                   | ...                   | ...                   | 1                     | 1                                              |          |

| Serial No.                     | Block No. | Tank No.     | R. S. No.                               | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|--------------------------------|-----------|--------------|-----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                |           |              |                                         | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Mylapore Division—(Continued). |           |              |                                         |                       |                       |                       |                       |                                                |          |
| 373                            | 30-B      | 6            | 1554                                    | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 374                            | 30-A      | 3            | 1545                                    | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 375                            | 34-B      | 1 tank       | 1654                                    | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 376                            | 1-C       | 1 pond       | ...                                     | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 377                            | 45-A      | 1 tank       | 2295                                    | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| Triplicane Division.           |           |              |                                         |                       |                       |                       |                       |                                                |          |
| 378                            | 59-A      | 1            | 3171                                    | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 379                            | 59-B      | 2            | "                                       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 380                            | "         | 3            | "                                       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| 381                            | "         | 5            | "                                       | ...                   | ...                   | ...                   | 1                     | 1                                              |          |
| Purasawakam Division.          |           |              |                                         |                       |                       |                       |                       |                                                |          |
| 382                            | 37        | 1            | 2383                                    | 2                     | 1                     | ...                   | 1                     | 4                                              |          |
| 383                            | "         | 2            | 2355                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 384                            | "         | 3            | 2355                                    | 2                     | 1                     | ...                   | ...                   | 3                                              |          |
| 385                            | "         | 4            | 2355                                    | 2                     | ...                   | 1                     | ...                   | 3                                              |          |
| 386                            | "         | 1 pond       | 2355                                    | 2                     | ...                   | 1                     | 1                     | 4                                              |          |
| 387                            | 41-B      | 1            | 2776                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 388                            | "         | 2            | 2776                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 389                            | "         | 3            | 2774                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 390                            | "         | Paddy field. | 2770, 2767<br>2768, 2767<br>2774 & 2765 | 2                     | ...                   | ...                   | 1                     | 3                                              |          |
| 391                            | 41-A      | 1            | 2762                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 392                            | "         | 2            | 2759                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 393                            | "         | 3            | 2765                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 394                            | "         | 1 cess pool  | 2760                                    | 2                     | ...                   | 1                     | ...                   | 3                                              |          |
| 395                            | 44        | 1            | 2861                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 396                            | 25        | 1            | 1522                                    | 2                     | 1                     | 1                     | ...                   | 4                                              |          |



| Serial No.                        | Block No. | Tank No.          | R. S. No.                              | 1st quarter.          | 2nd quarter.          | 3rd quarter.          | 4th quarter.          | Total No. of times cleaned for the whole year. | Remarks. |
|-----------------------------------|-----------|-------------------|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------------------|----------|
|                                   |           |                   |                                        | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. | No. of times cleaned. |                                                |          |
| Purasawakam Division—(Continued). |           |                   |                                        |                       |                       |                       |                       |                                                |          |
| 397                               | 25        | 2                 | 1517                                   | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 398                               | "         | 3                 | 1523                                   | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 399                               | "         | 4                 | 1545                                   | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 400                               | "         | 1 pond            | 1536                                   | 2                     | 1                     | ...                   | ...                   | 3                                              |          |
| 401                               | "         | 3                 | 1522                                   | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 402                               | "         | 4                 | 1539                                   | 2                     | 1                     | 1                     | ...                   | 4                                              |          |
| 403                               | "         | Paddy field tank. | 1544, 1543, 1542, 1540, 1539 and 1538. | 2                     | 1                     | 2                     | ...                   | 5                                              |          |
| 404                               | 14-B      | 1                 | 777                                    | 2                     | ...                   | 1                     | ...                   | 3                                              |          |
| 405                               | 8-B       | 1                 | 231                                    | 2                     | ...                   | ...                   | ...                   | 2                                              |          |
| 406                               | 46        | 1                 | 2905                                   | ...                   | ...                   | 1                     | ...                   | 1                                              |          |
| 407                               | 47        | 1                 | ...                                    | ...                   | ...                   | 2                     | ...                   | 2                                              |          |
| Perambur Division.                |           |                   |                                        |                       |                       |                       |                       |                                                |          |
| 408                               | 17-C      | 4                 | 301                                    | ...                   | ...                   | 2                     | ...                   | 2                                              |          |
| Yepery Division.                  |           |                   |                                        |                       |                       |                       |                       |                                                |          |
| 409                               | 15        | 1                 | 660                                    | 2                     | ...                   | 1                     | ...                   | 3                                              |          |
| 410                               | 28        | 1                 | 1269                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| 411                               | "         | 1 cess pool.      | 1269                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| 412                               | 27-B      | 1-T               | 1268                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| 413                               | "         | 2                 | 1268                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| 414                               | "         | 3                 | 1268                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| 415                               | 27-A      | 1                 | 1268                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |
| 416                               | 26-B      | 1                 | 1267                                   | ...                   | ...                   | 3                     | 3                     | 6                                              |          |

K. RAGHAVENDRA RAU, B.A., M.B. & C.M.,  
Special Malaria Officer.

CHART I  
Graph showing total deaths malaria deaths and fever deaths  
according to months for the year 1914 & 1915

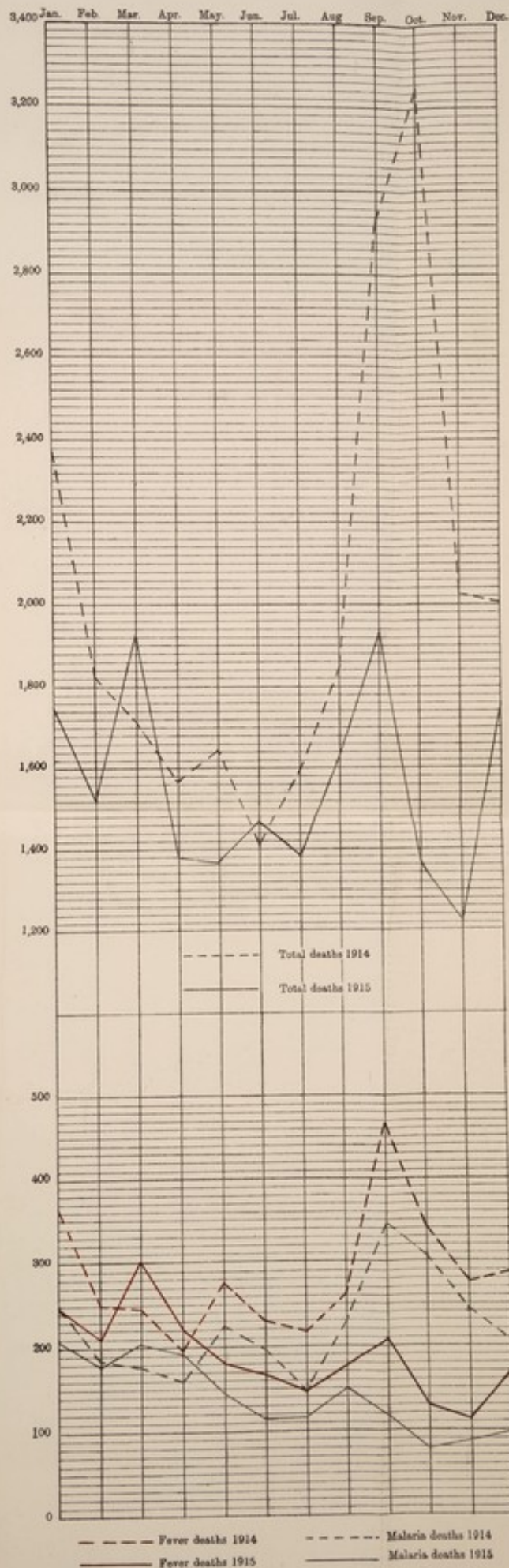
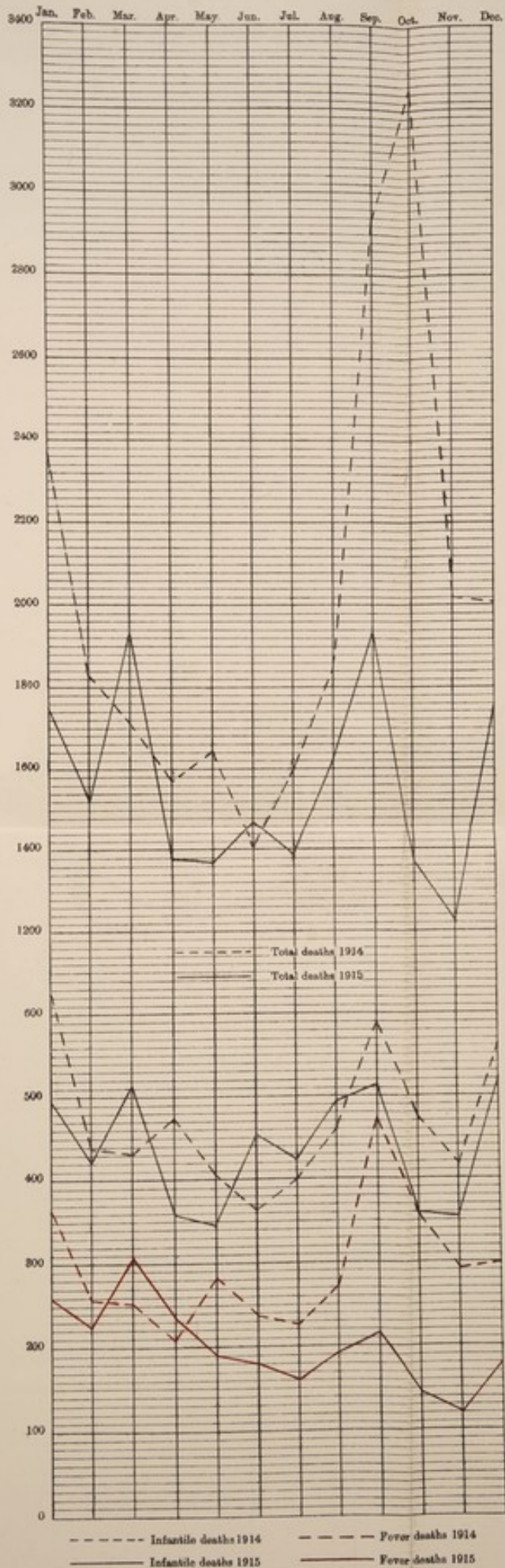






CHART II

Graph showing total deaths, infantile deaths and fever deaths according to months for the year 1914 & 1915





# CHAPTER II

Graph showing total deaths attributable to disease according to months for the year 1914

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

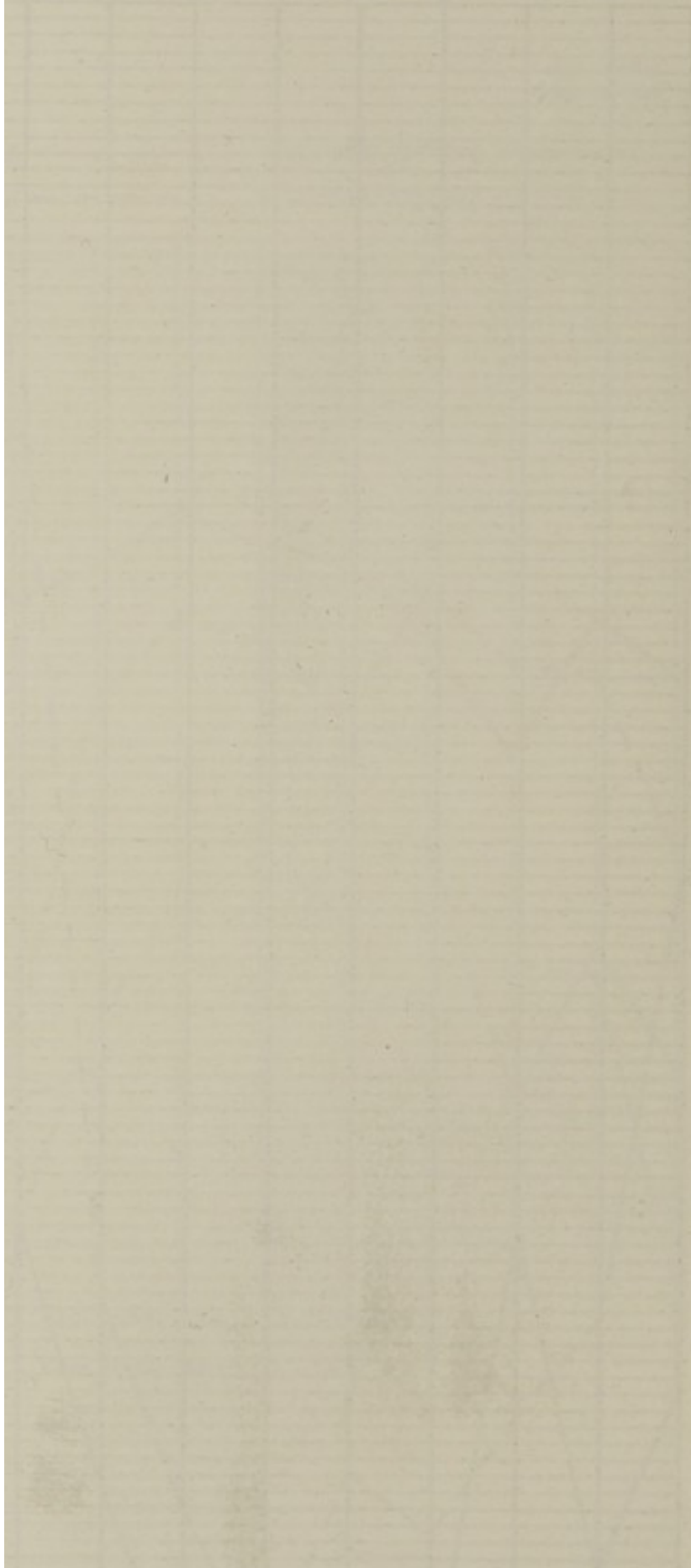
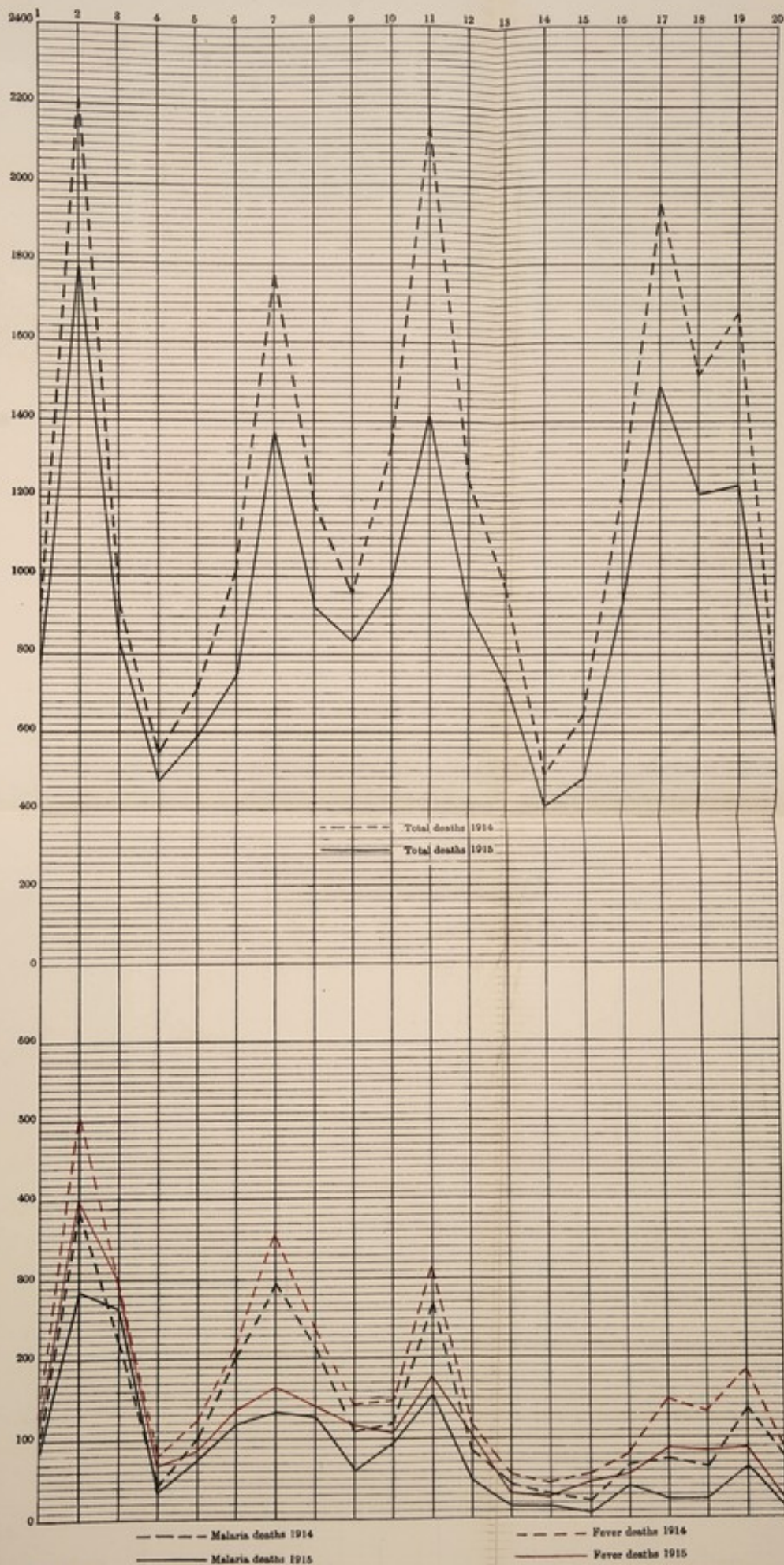


CHART III

Graph showing total deaths, malaria deaths and fever deaths according to divisions for the year 1914 & 1915.





# CHART III

Graph showing total deaths, malaria deaths and fever deaths at

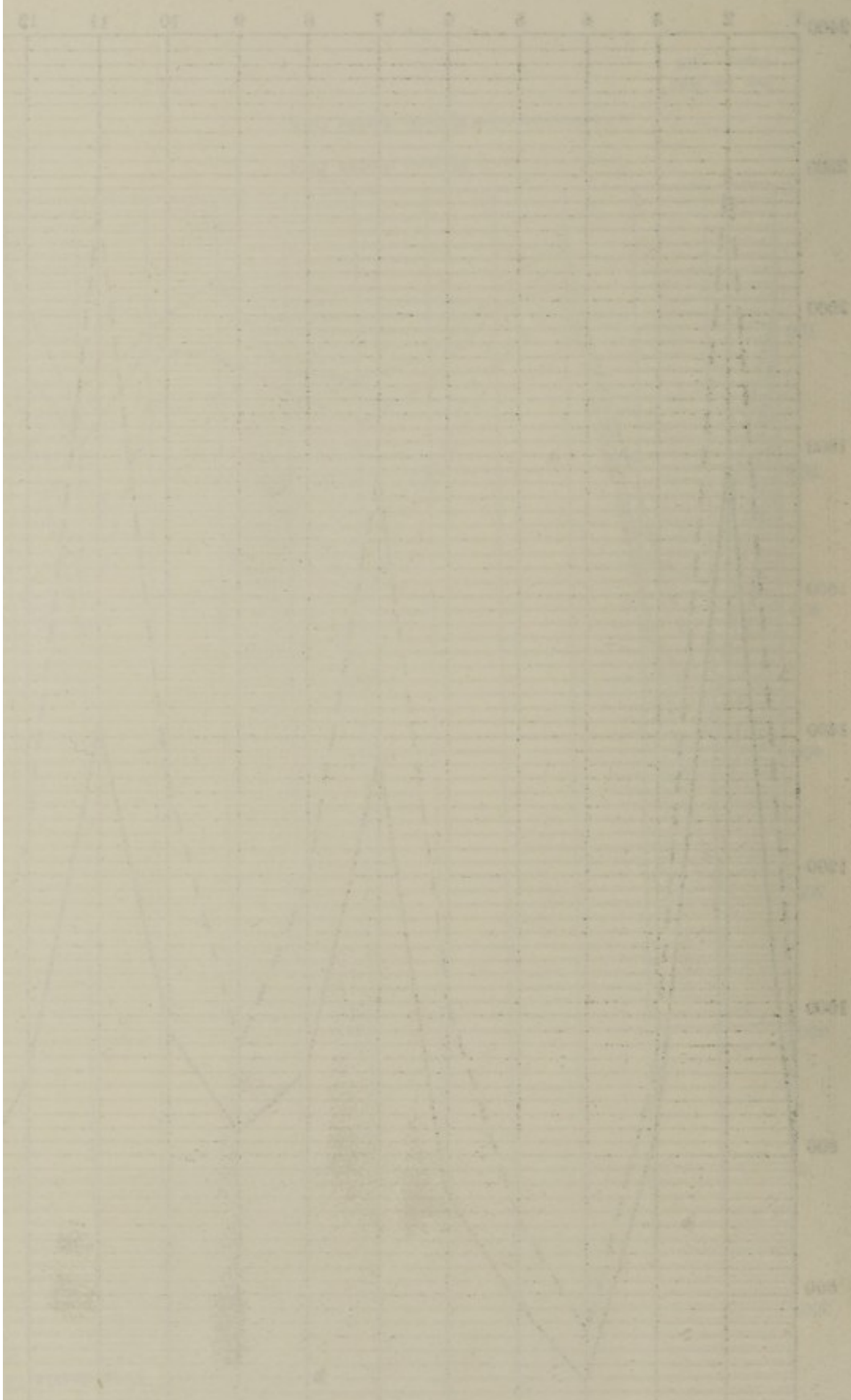
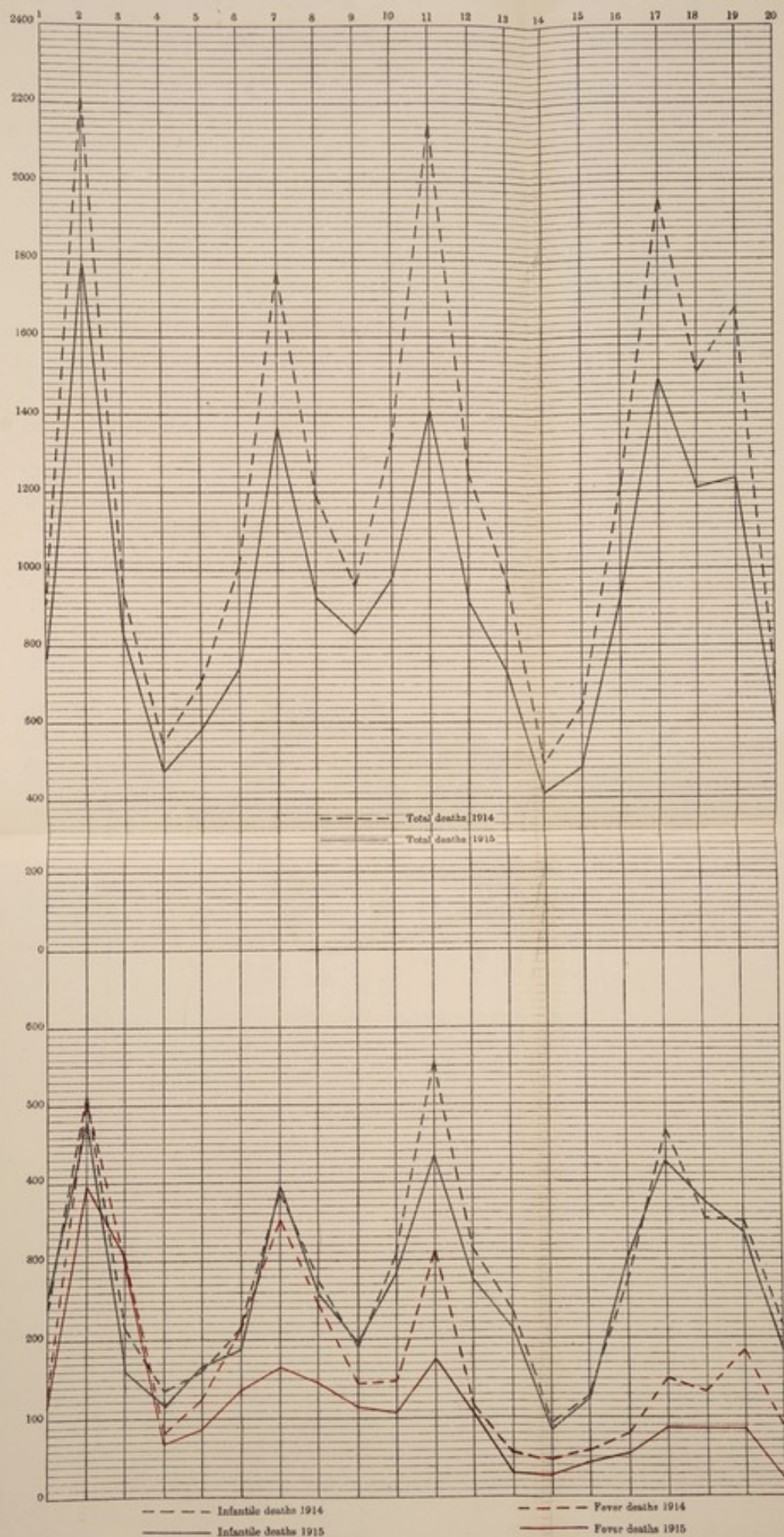
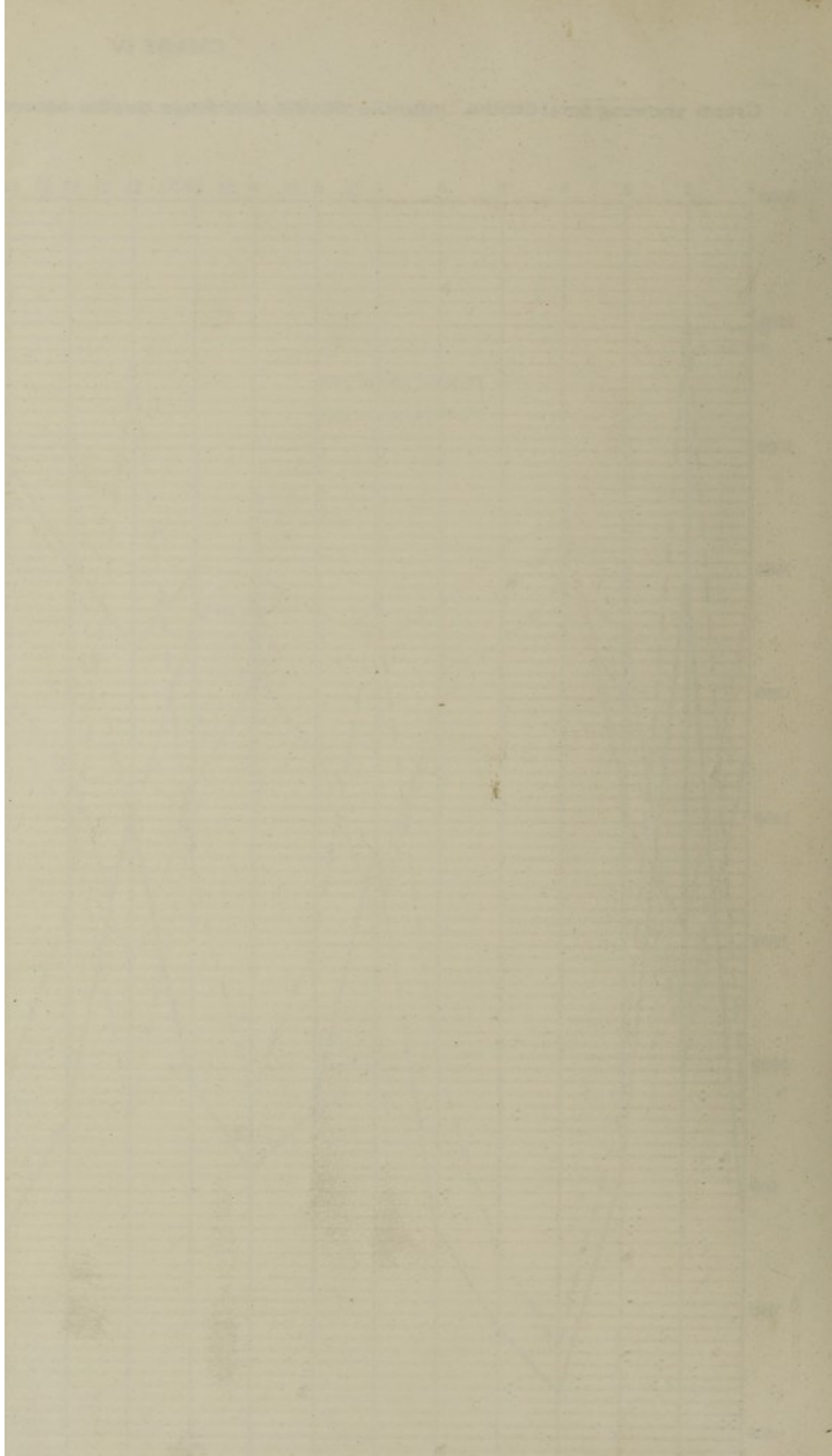


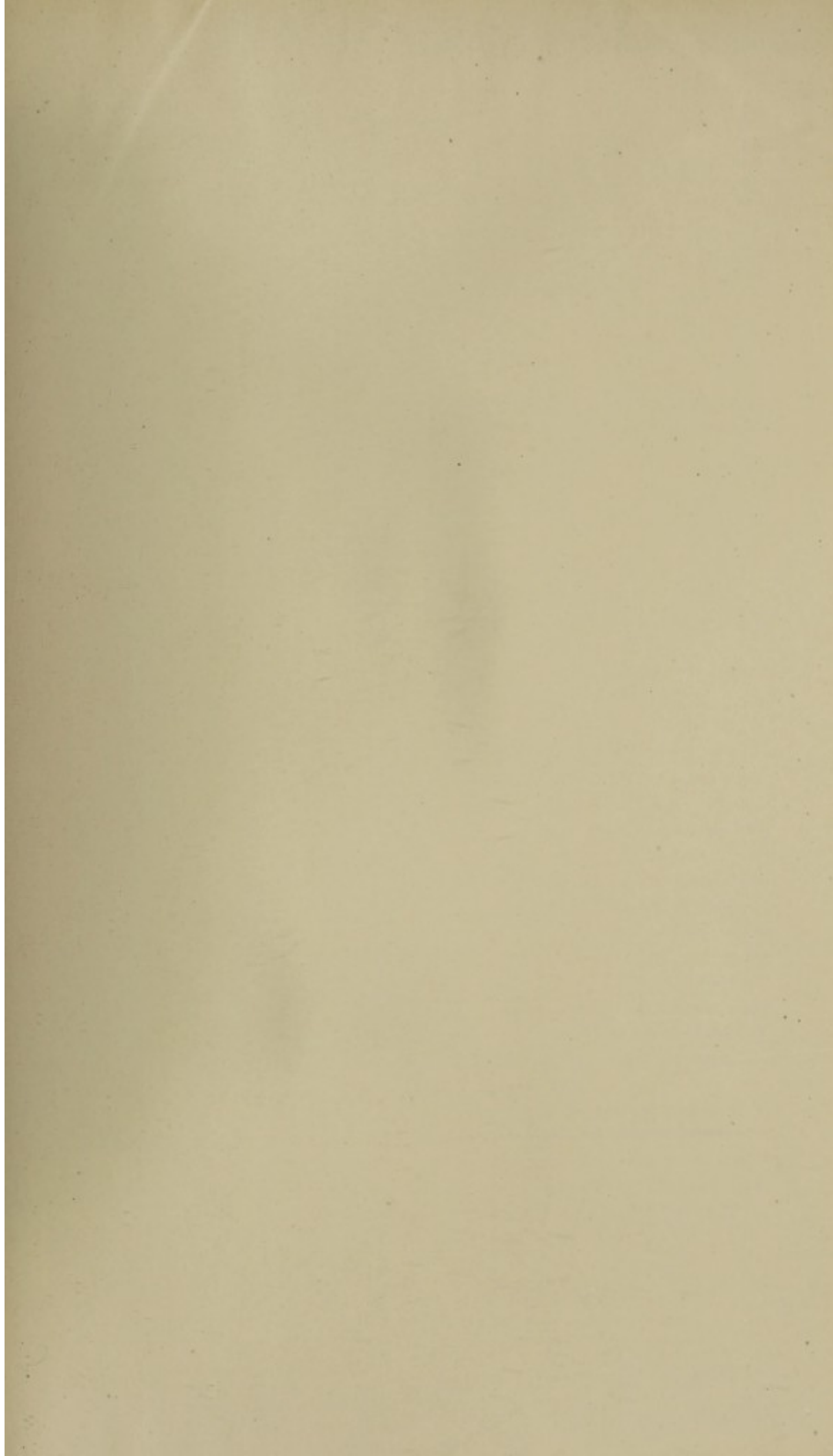
CHART IV

Graph showing total deaths, infantile deaths and fever deaths according to divisions for the year 1914 & 1915.

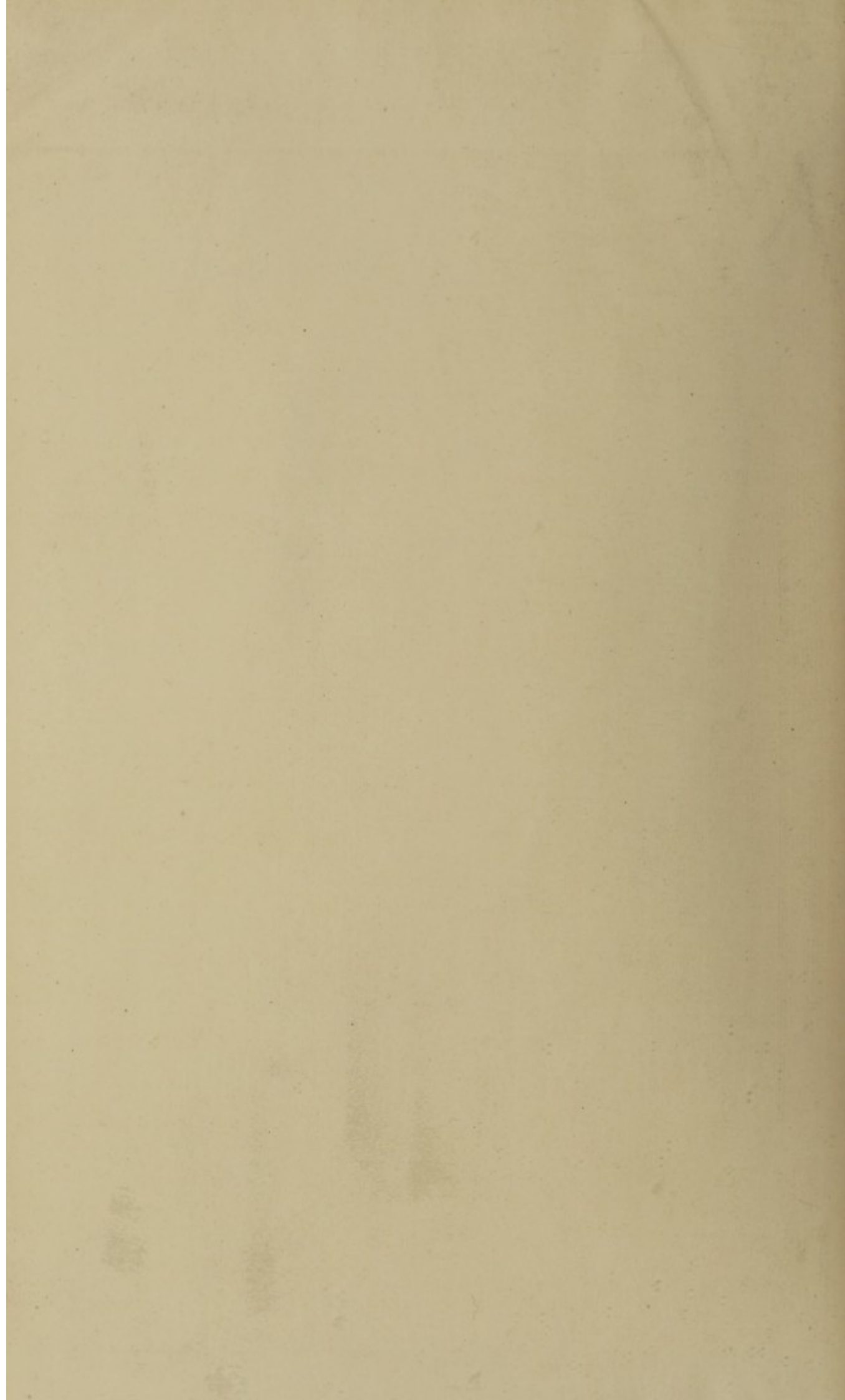












# CORPORATION OF MADRAS.

## Administration Report for 1915-16.

### ADDENDA Et. CORRIGENDA.

|                      |            |                                                                                                            |
|----------------------|------------|------------------------------------------------------------------------------------------------------------|
| On page 13 paragraph | 32 line 26 | for "leaving a balance of Rs. 82" read "and Rs. 2-1-11 was written off, leaving a balance of Rs. 79-14-1." |
| " 26                 | " 73       | " 31 for "supply" read "water-supply."                                                                     |
| " 27                 | " 75       | " 9 for "largely due" read "due largely."                                                                  |
| " "                  | " "        | 36 for "were" read "had been."                                                                             |
| " 28                 | " 79       | 37 delete "even."                                                                                          |
| " 40                 | " 126      | 17 for 11,67,497-13-7 read 11,39,807-5-11.                                                                 |
| " "                  | " "        | 18 for 10,96,642-14-1 read 10,68,952-6-5.                                                                  |
| " 62                 |            | under heading "amount" for "1,09,122" against arrears of taxes, &c., read "1,09,120."                      |
| " "                  |            | Do. do. for total "74,56,807," read "74,56,805."                                                           |
| " "                  |            | Do. do. for total assets 1,55,89,763, read 1,55,89,761.                                                    |
| " 92                 |            | Statement IV-B in item 9 under column 9 insert "2-1-11."                                                   |
| " "                  |            | Do. do. do. 9-A insert "23."                                                                               |
| " "                  |            | Do. do. do. 10 for "33-2-11" read "31-1-0."                                                                |
| " "                  |            | Do. do. do. 10-A for "3-84" read "3-61."                                                                   |
| " "                  |            | Do. for the total of 139-4-9 of column 9 read 141-6-8.                                                     |
| " "                  |            | Do. do. 2-44 under column 9-A read "2-45."                                                                 |
| " "                  |            | Do. do. 31,526-2-6 under column 10 read "31,524-0-7."                                                      |
| " 142                |            | for 23 8 under the heading "No. of summonses granted" read "2,308."                                        |
| " 150                |            | Table No. 20, under the heading "amount" in column 2, for "3,258-0-5" read "3,258-8-5."                    |
| " 151                |            | Table No. 22, under the heading "amount" insert ... .. against "tools and plant."                          |
| " 172                |            | under the heading "average daily attendance indoor" for "1229" read "12-29."                               |
| " 188                |            | item No. 9, column 6 in Table E, for "1,996-1-7" read "2,996-1-7."                                         |
| " 206                |            | line 29 for "in" read "into."                                                                              |
| " 217                |            | Appendix '5' for "8" under heading "grass farm" read "9."                                                  |
| " "                  |            | Column 4 for "1,417-11-4" read "1,447-11-4."                                                               |

CORPORATION OF MADRAS, }

7th September, 1916. }

J. C. MOLONY,

President.











**ADMINISTRATION REPORT**  
OF THE  
**CORPORATION OF MADRAS**  
FOR  
**1915-1916.**

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**1916.**