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CORPORATION ::

OF

:: MADRAS





HEALTH DEPARTMENT

ANNUAL REPORT

FOR

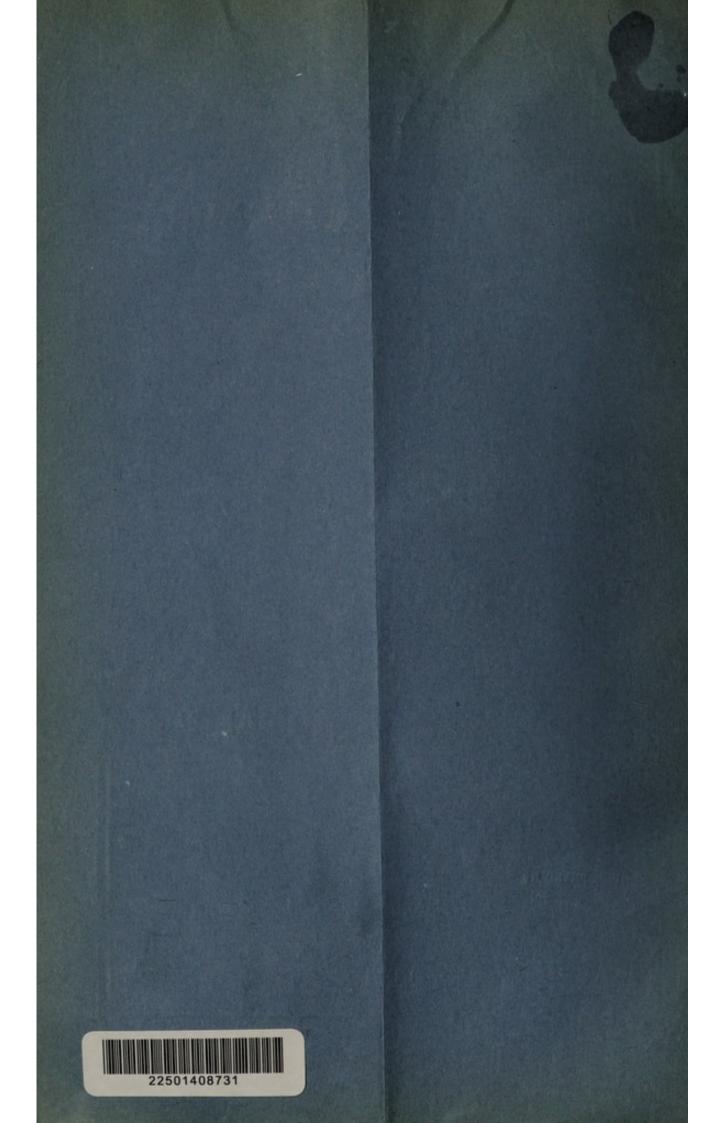
THE YEAR 1948

PRESENTED BY

S. E. D. MASILAMANI, M.B.B.S., B.S.Sc., D.P.H.(London)

HEALTH OFFICER

1949



CORPORATION OF MADRAS

HEALTH DEPARTMENT

ANNUAL REPORT FOR 1948

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CORPORATION OF MADRAS

HEALTH DEPARTMENT

ANVIAL REPORT FOR 1948

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I succeeded Dr. P. Sadasivan as Health Officer on 26-4-1948. Dr. P. Sadasivan was on leave from 26-4-1948 and retired from service on 26-8-1948. He had served the Corporation as Assistant Health Officer and Health Officer for 30 years and I take this opportunity to place on record the meritorious-services rendered by him and the share he had in building up an efficient public health service. His mature experience and intimate knowledge of the various health problems of the city were a tower of strength to the department.

The monsoon was a failure in the previous year. During the year under report, the rainfall recorded was only 34.09 inches against an expected average fall of 50 inches. Failure of the monsoon in two consecutive years has brought home forcedly the necessity for finding out ways and means to ensure a copious water supply to the city without which it would be almost impossible to maintain a fair standard of public health.

A noticeable feature of vital statistics of the year under report is the phenomenal increase in the number of births registered. The number of 50,222 births (excluding still-births) is the highest so far recorded. Yet the infantile mortality showed a marked decrease viz., 155.97, and the maternal death rate of 2.83 is the lowest to be recorded. Infantile mortality is generally taken as an index of the health of a city. It is, therefore, satisfying to note that the health services rendered in the city are showing signs of paying good dividend. Though the death rate showed a slight increase over that of the previous year, it may be mentioned that there has been a reduction in the death rates from smallpox, desentery and diarrhoea, malaria, enteric and 'other fevers'. There was a mild epidemic of cholera in the city during the latter half of the year recording 192 deaths. A brief report about the incidence of cholera and the steps taken to combat it will be found in the body of the report.

Medical relief through Corporation dispensaries, special clinics for skin, leprosy and venereal diseases and tuberculosis was continued. Three more general dispensaries were opened during the year in the newly added areas of Adyar, Kodambakkam and Ayanavaram.

A new venture in health services was made by opening a Health Centre. This became possible by the Hope Club in People's Park being handed over to the Corporation and the Provincial Welfare Association making a grant of over a lakh of rupees for equipping and renovating the building. The centre was opened by Lady Nye on 29th May, 1948. It is modelled on the Peckham Health Centre in London and is intended as a public health centre for the family as unit. The success of Peckham experiment has emboldened us to launch on this scheme. It is not our expectation that this service will produce spectacular results immediately. But, there is no doubt that this service will benefit the members of the centre and through them spread public health consciousness. This institution has already attracted

country-wide attention. It is my hope that more centres of this kind will come into being not only in the city but also in the Province and other parts of the country.

The Public Health Laboratory has gained in popularity and, during the year, it has been expanded to meet the growing demand on its service.

Mention has already been made about the opening of the Thiruvotteeswarar Tuberculosis Hospital in the previous year's report. It was ready for occupation during the year and was opened by the Hon'ble Sri O. P. Ramaswami Reddiar on 7-8-1948 and in the few months of its existence, it was always full and rendered useful service.

Deaths from tuberculosis have been showing a steady increase in the city. The tuberculosis service rendered by the Corporation is through a solitary clinic and the hospital opened during the year. This is totally inadequate. The city will need at least 1,000 beds and 20 clinics for effective preventive measures against tuberculosis. The acute housing shortage and overcrowding in the city have rendered it very difficult to prevent the spread of tuberculosis in the city. The experience of western countries for the past many years has been that when agricultural population crowd into metropolitan cities they fall an easy prey to tuberculosis. With the present trend of the movement of people to urban areas in India, especially young men and women, a similar experience has to be expected. It is, therefore, most necessary that we should be alive to this danger and take immediate steps to organise an efficient tuberculosis service in the city and avoid the tragedy of allowing our young men and women to be victims to this fell disease. Postponing this issue on financial consideration would be detrimental and against the economic interest of the country. It, therefore, behoves us to formulate and implement short and long term programmes. A scheme already prepared by the sub-committee of the Tuberculosis Association is now pending before the Government and the Corporation and its implementation should be given immediate consideration.

Medical inspection service continued on the same lines as in the previous year. 8,138 children were given midday meals. The Midday Meals Service has been taken over by the Health Department from the Education Department. Milk powder so generously given by the Government, free of cost, was distributed as reconstituted milk to school children and also to a few orphanages run by private institutions in the city.

Under the Madras Prevention of Adulteration Act, the number of 4,035 samples analysed showed a considerable increase over the figure for the previous year. The report of the Public Analyst will be found elsewhere in the report.

The work of sewer laying in Perambur, Thyagarayanagar, Adyar and Vyasarpady showed good progress. 2,125 dry latrines were converted into the flush-out type during the year.

38,236 houses were inspected by the sanitary staff during the year and action was taken to remedy defects in 8,885 cases. The acute shortage of

housing, resulting in overcrowding, is a problem that has defied solution. Population of the city has doubled itself during the past few years and it has not been possible to stem the tide of the rush of people into the city. I am of the view that the influx will continue for some more years unabated. Public health administration has been strained to its utmost to meet the various problems arising from this unprecedented migration. In expanding the limits of the city in 1946, it was hoped that congestion in crowded parts of the city would be relieved, but nothing tangible has been done so far to utilize the available open spaces in these areas for relieving congestion. It is gratifying to note that the City Improvement Trust has begun to function. But, so far, action on slum clearance and re-housing the slum dwellers in suitable areas in the periphery of the city has not been taken up. Mostly, such areas are either easily accessible by public transport or can be made so. A programme of slum clearance and re-housing of those evacuated in suitable areas is an urgent necessity. I venture to suggest that the City Improvement Trust would do well to take up this question and give it top priority.

The city having been extended and its population having increased to over 11 millions, cleansing has become a problem. The modern trend of cleansing is complete mechanisation. But, some features peculiar to the city will need the continuance of animal-drawn vehicles, though mechanised transport has been and will have to be increasingly used. Cleansing has been the concern of the Health Department for many years. The City High Mortality Committee recommended in 1927 that the city would need a separate whole-time department for cleansing. Similar recommendation was made as early as 1915 by Mr. Coats, the then Engineer of the Corporation. The arguments then used are all the more forcible now. The Health Department should no longer be burdened with the responsibility for this important section of city administration. Proposals for its transference from the control of the Health Department have already been placed before the Standing Committees and the Council and I hope that a decision will be taken soon. The proposals will not cost the Corporation more than what is being spent on cleansing at present. Far from being novel, the recommendation is in keeping with the practice obtaining in well developed city administrations.

Measures taken by the department to control malaria have been effective. The incidence of malaria in the city was low and there were only 40 deaths. With the existing staff, it has been only possible to control the malaria carrying mosquitoes. But, the staff has also been doing its best to keep down the culex mosquitoes. If the city is to be free from mosquitoes, a separate section under an Assistant Health Officer with a larger staff will be necessary. This section, by itself, will not be sufficient to eradicate mosquito nuisance. Permanent engineering measures to replace cesspools, open drains and inefficient storm water drains should be undertaken. This would mean heavy financial commitment and any well-planned scheme will have to be spread over a period of 5 or 10 years.

5 Assistant Health Officers and a Sub-assistant Health Officer assisted me in looking after the public health administration in the city. I wish to record my appreciation of their loyalty and co-operation and of the good work

done by the other members of the public health staff. They had to work under great strain during the conservancy strike and the cholera epidemic and every one of them rose to the occasion and acquitted himself well.

I acknowledge with thanks the uniform courtesy shown and ready guidance given to me by the Commissioner.

S. E. D. MASILAMANI

M.B.B.S., B.S.Sc., D.P.H. (London)

Health Officer

Forwarded

The total number of births during the year was 50,222 against 40,753 in the previous year. The birth rate during the year works out to 51 99 per 1,000 of the estimated population of 9.83 lakhs against 42 08 in 1947. There is no reason why the birth rate should be so high as this. The average birth rate for the Province as a whole is 32 per 1,000 and the average birth rate for the city for the quinquennium 1934–38 was 41.7. This average was based on fairly accurate population figures. If we apply the same birth rate to the city the population should now be over 12 lakhs.

The total number of deaths during the year was 31,002 against 29,979 in the previous year. While the increase in births over the previous year was 9,469, the increase in deaths was only 1,023. The excess of births over deaths in 1948 was 19,220 against 10,774 in the previous year.

Some of the noteworthy features in the report of the Health Officer are a marked fall in infantile and maternal deaths and a slight decrease in the number of deaths from certain principal diseases like small-pox, malaria, enteric fever, dysentery, diarrhoea, etc. The general health of the city as gleaned from these statistics must be considered satisfactory especially because of the failure of the monsoon during two successive years and the consequent water drought, the sharp increase in population, overcrowding, bad housing conditions and continued scarcity of essential articles of food and the poor economic condition of the bulk of the population. During the year under review, cholera was prevalent in the city for over 4 months and took a toll of 192 lives. But for the prompt preventive measures taken by the Health Department the infection would have taken a virulent turn and the results would have been disastrous.

The measures so far adopted and the facilities available to combat "Tuberculosis" in the city are far too inadequate as there are only two tuberculosis hospitals and two clinics for the whole city. I agree with the Health Officer that there should be provision for atleast 1,000 beds and 20 clinics in the city if the disease is to be combated and arrested in the initial stages and effective curative action is to be taken in advanced stages. It would take a long time to provide the city with an adequate number of T.B. clinics and hospitals. It is, however, hoped that the report of the Anti-Tuberculosis Association, Madras Branch, regarding B.C.G. vaccine, starting of clinics and hospitals, education and propaganda would be implemented by the Government, the Corporation and the public as expeditiously as possible.

During the year, 3 more allopathic dispensaries were opened in Adyar, Kodambakkam, and Ayanavaram bringing the total number to 32. Two more child welfare centres were opened, one at Ayanavaram and another at Kodambakkam, and a maternity ward was opened at Washermanpet. There are at present 30 child welfare centres including three sub-centres. 8,262 births were conducted in the Corporation maternity wards and 17,789 births were conducted by the Corporation mid-wives at the houses of patients. The number of births which came under the observation and care of the Maternity and Child Welfare Section of the Corporation was 26,051 which is 52% of the total number of births in the city. It is the aim of the Corporation to provide in the next few years more child welfare centres and maternity wards with a view to seeing that every birth in the city is given skilled attendance.

The Ashok Vihar and the Broadway Creche continued to be popular during the year and there is demand for opening more creehes in other parts of the city.

The public health laboratory was provided with more equipment for undertaking not only clinical and pathological tests but also bacteriological and serological tests. During the year, 5,643 tests were conducted at the laboratory.

Food control was intensified during the year and as many as 4,035 samples were taken and analysed. Recently one more Assistant Analyst has been appointed with a view to analysing 5,000 samples per year. It is hoped that with the increase in the number of samples dealers in adulterated articles of food will be dealt with more frequently than before.

The Health Officer and his staff and the Lady Superintendent and her staff have done good work during the year. This is the first report of Dr. S. E. D. Masilamani and despite various difficulties he has done his best to maintain the health of the city in a satisfactory condition.

Ripon Buildings, Madras 9th September 1949 C. NARASIMHAM Commissioner Modembelium, and Ayanavaram bringing the total number to 32. Two more child welfare centure were opposed, one of Ayanavaram and apositer at Modern bakkam, and a materaity ward was opposed at Washermanpet. There are at probeint 30 child welfare centres including three rab centres. 8,262 thirths were conducted in the Corporation materaity wards and 17,789 births were conducted by the Corporation mid-wives at the houses of patients. The number of births which camp under the observation and care of the Maternity and Child Welfare in the Corporation was 26,051 which is 52g of the total number of births in the city. It is the aim of the Corporation to provide in the next few years more child welfare centres and maternity wards with a view to sceing that every birth-in the city is given skilled attendance.

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SUMMARY OF VITAL STATISTICS FOR 1948

Area and population: The area of the city is 19:81 og miles or 31,000 89:0

Area off to people to the influx of people to the area	PORME	31,900 9920	acres
Population estimated for mid-year, 1948	Malley	9,83,087	
Average density per acre	lange.	30.9	
Births excluding still-births	in odd	50,222	
Birth rate per 1,000 estimated population	bossel	51:09	test start
Deaths excluding still-births	133270	31,002	
Death rate per 1,000 estimated population	***	31:54	
Natural increase		19,220	
Rate of natural increase-per 1,000 estimated population	-	19:55	
Still-births coltalogog beatimated no betaleflat exact			
Infantile deaths comprise of I may an averaged tool as			
Infantile death rate per 1,000 live-births	dille		// - The state of
Maternal deaths		142	
Maternal death rate per 1,000 live-births	1392	2:83	

33.62

quin

19:55 per mille against 11:12 per mille in 1947

DEATHS FROM PRINCIPAL CAUSES

Principal causes	Raomy	Deaths D	eath rate
Cholera		210	0.21
Dysentery and diarrhoea		3,112	3.17
Small-pox sarrid to .o.		12	0.01
Malaria bereliper		.40	0.04
Enteric fever		143	0.15
Tubercle including tubercle of lungs		621 maggamin	0.63
Respiratory diseases		7,237mibul-olanA	7:36

VITAL STATISTICS

Meteorology:—Atmospheric conditions recorded during the year are furnished in Annual Form "A" in the Appendix.

Rainfall:—During the year 34.09" of rain fell against 34.79" in the previous year. The average rainfall for the previous five years was 64.33 inches. The rainfall for the year, i.e., 34.09 inches, is the lowest recorded since 1939.

The following statement furnishes the rainfalls in the city for each quarter of the year and of the previous five years:—

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1943	2:73 T	The 16:90	11:54	52.88	84.05
bed 944 m	12.8400	Lauton 4108	15.83	45.22	77:97
1945	0.15	. 110:0 vent.	15.63 and	20:95	42.71
1946	1.51	4.21	15.18	60.92	82.12
1947	orly 5:46 b	sobrood 1.41	12:99	14:93	34.79
1948	2:19	1.47 or	10:98	19:45	34:09

Area and population: - The area of the city is 49.84 sq. miles or 31,900.9920 - acres.

According to the census of 1941, the population of the city was 8,75,184. The estimated mid-year population for 1948 was 9,83,087 as furnished by the Director General of Health Services, New Delhi. The average density based on the estimated mid-year population was 30.9 per acre. Due to the influx of people to the city on account of the easier availability of food and better scope for employment, education and medical facilities, the actual population of the city was far greater. According to the ration authorities of the city the population is reported to be nearly 15,00,000. The vital statistical rates based on the estimated population and embodied in the report do not therefore give a correct indication of the state of the public health of the city for the year under report.

Births:—50,222 births were registered in the city during the year as against 40,753 in 1947. The birth rate calculated on the estimated population was 51.09 per mille for the year against 42.08 for the previous year. The quinquennial (1943-47) average rate was 38.17 per mille.

Of the 50,222 births registered during the year, 25,602 were males and 24,620 were females. The proportion of male births to female births was as 104 to 100 as compared with 103 to 100 in 1947.

The number of births among the principal communities is given below :-

211	8	7.0		Percentage to
			No. of births	total births
Community			registered	registered
European		***	shoul be eleved 36 mile	o'looi el 0.07
Anglo-Indian			420	0.84
Indian Christian		***	2,140	4.26
Muslim	TISTICS		4,412	8.79
Hindu	collett,	1110	43,208	86.03:
Others		2000	6	0.01
			A Constitute Acrondix.	mand language
	Total		50,222	100.00

211

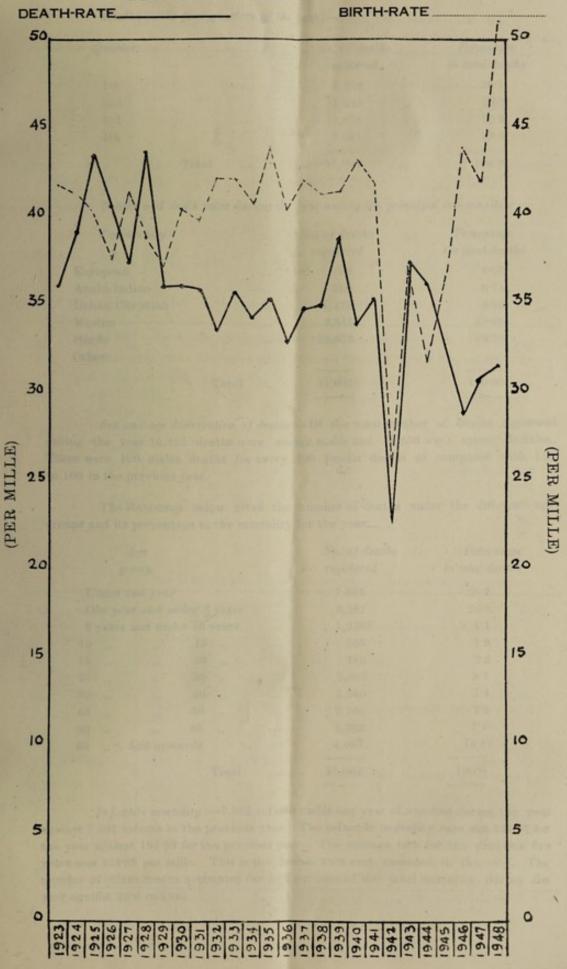
Still-births: -1,549 still-births were registered during the year representing a. rate of 30.8 per 1,000 live-births registered against the rate of 34.6 for 1947.

Deaths:—The total number of deaths (including deaths of non-residents who had come for treatment to the various hospitals, clinics and nursing homes in the city) registered during the year was 31,002 recording a death rate of 31.54 per mille against 29,979 deaths and the rate of 30.96 deaths per mille in 1947. The average rate for the quinquennium, 1943-47, was 31.27 per mille. If the actual population is reckoned as 15,00,000 the death rate will be 20.67 per mille for the year.

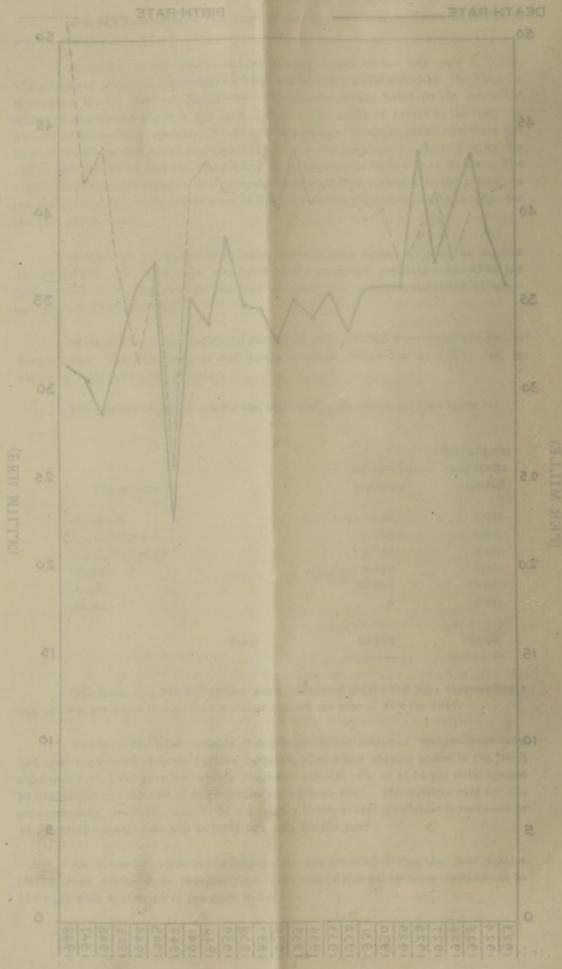
An excess of 19,220 births over deaths was recorded during the year against 19,774 excess births in the previous year. The rate of natural increase worked out to 19.55 per mille against 11.12 per mille in 1947.

CHARLE

MADRAS CITY BIRTHS AND DEATHS 1923-48



MADRAS CITY BIRTHS AND DEATHS 1923-48



Deaths in the four quarters of the year :-

Quarter		No. of deaths	Percentage
		registered	to total deaths
1st	E	6,238	20.1
2nd	1 2 m	7,845	25.3
3rd	nemes support	7,858	25.3
4th	= 53.45	9,061	29.3
	Total	31,002	100.0
	818 70 01	31,000	

Deaths and death rates during the year among the principal communities :-

Community	1,008		No. of deaths registered		Percentage t o total deaths
European	956	314	10		0.03
Anglo-Indian		***	229		0.74
Indian Christian		028	1,475		4:76
Muslim	- 1		3,315	11	10.69
Hindu Tolla demoni		v barran	25,973		83:78
Others : Notice and the control of t		add air	infantile worthing		Number and
Death rate per 1,000 of live-hirths	Total	spick.	31,002		100.00

Sex and age distribution of deaths:—Of the total number of deaths registered during the year 16,152 deaths were among males and 14,850 were among females. There were 109 males deaths for every 100 female deaths as compared with 110 to 100 in the previous year.

The statement below gives the number of deaths under the different agegroups and its percentage to the mortality for the year:

	Age roup			No. of deaths registered	Percentage to total deaths
Under	one year		***	7,833	25.2
One yes	ar and under	5 years	10 50%	6,281	20.3 12.0
5 years	and under 1	0 years		1,258	Pritipal causes o
10 ,,	,, 7441 1	15 ,,	STORY.	585	1.9
15 ,,	,, 2	20 ,,		785	2.5
1 20 ,,	,, 3	0 ,,	W	2,505	8.1
30 ,,	9, 4	0 ,,	2	2,300	7.4
40 ,,	118.6 5	0 .,	1,8	2,265	Diagrah 6:7 and dysents
50 ,,	,, 60	0 ,,	***	2,203	7-19-limit
0.60 ,,	and upward	8 -8	1	4,987	16:1
	208,2	Total	0.2	31,002	100.0
					- sami

Infantile mortality:—7,833 infants under one year of age died during the year against 7,987 infants in the previous year. The infantile mortality rate was 155.97 for the year against 195.99 for the previous year. The average rate for the previous five years was 224.88 per mille. This is the lowest rate ever recorded in the city. The number of infant deaths accounted for 25.2 per cent of the total mortality during the year against 26.6 in 1947.

Age and causes of infantile deaths:—The statement below furnishes the principal causes of infantile deaths under different age-groups.

Age-group	Small-pox	Fevers	Dysentery and diarrhoea	Premature birth, debility, etc.	Nervous system	Respiratory	All other causes	Total deaths	Percentage to total deaths
Under seven days Seven days and		8	21	1,389	40	67	218	1,743	22.3
under one month One month and		18	63	872	70	113	77	1,213	15.5
under six months Six months and		85	357	422	304	1,008	531		34.5
under one year	2	91	435	40	214	924	464	2,170	27.7
Tôtal	2	202	876	7 2,723	628	2,112	1,290	7,833	100.0

37.8 per cent of the infant deaths occurred within one month after birth.

Number and rate of infantile mortality in the principal communities:

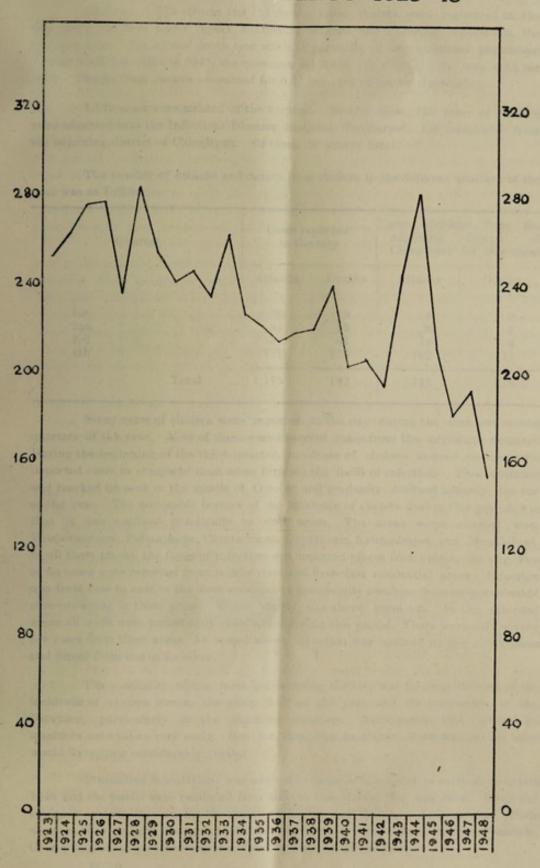
Community	No. of births registered	No. of infants died	Death rate per 1,000 of live-births
			registered
European	36	annon following	27.78
Anglo-Indian	420	39	92.86
Indian Christian	2,140	302	141-12
Muslim	4,412	782	177.24
Hindu His odd asker	43,208	6,709	155.27
Others	mo (6 of 2 no)	glilarith add or	ps and its percentage
TV(ta)	50 222	7 833	155:07

Mortality figures under principal causes of deaths for 1948 and 1947 :-

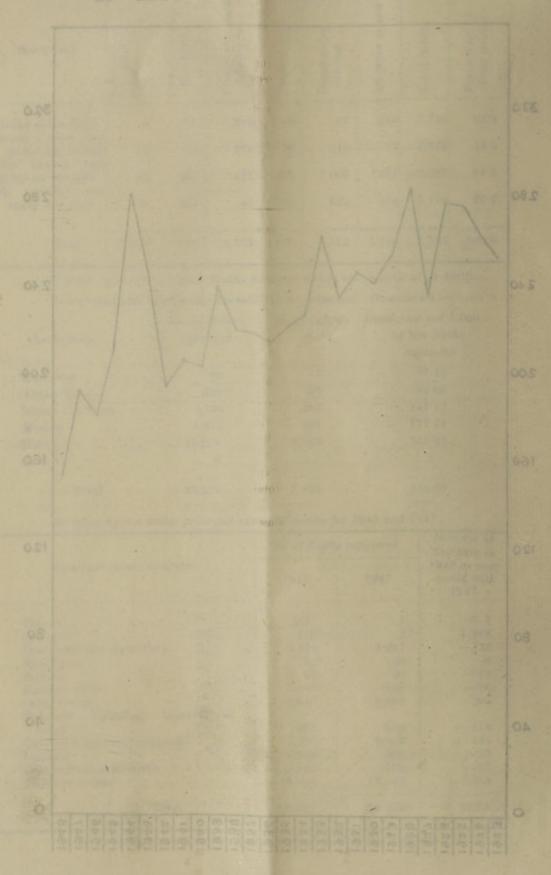
0,281 2073	No. of deaths regi		dse or dse in
Principal causes of death	1948	1948 d	ts com-
Plague Cholera Diarrhoea and dysentery Small-pox Malaria Enteric fever Other fevers Tubercle including tubercle of lungs General respiratory diseases Injuries Deaths from child-birth All other causes	Nil 210* 3,112 12* 40 143* 2,657 621 7,237 343 142 16,485	3,847 20 55 163 2,862 - 502 + 6,803 + 159	-1 208 -735 -8 -15 -20 -205 119 434 -53 -17 ,316
od rear of the total mortality during the	31,002	29,979 + 1	,023

^{*} Includes deaths among mofussil cases treated in the city hospitals.

MADRAS CITY INFANTILE MORTALITY 1923-48



MADRAS CITY INFANTILE MORTALITY 1923 48



There has been a reduction of deaths under small-pox, dysentery and diarrhoea, enteric, "other fevers", malaria, injuries and maternal deaths.

res, additional staff was employed under

Cholera:—1,175 attacks and 192 deaths from cholera were registered in the city during the year under report against 29 attacks and 2 deaths reported in the previous year. The annual death rate was 0·19 per mille of the estimated population against 0·002 per mille in 1947, the quinquennial (1943-47) average rate was 0·12 per mille. Deaths from cholera accounted for 0·62 per cent of the total mortality.

1,170 cases were treated in the hospital. Besides these, 131 cases of cholera were admitted into the Infectious Diseases Hospital, Tondiarpet, for treatment from the adjoining district of Chingleput. Of these, 18 proved fatal.

The number of attacks and deaths from cholera in the different quarters of the year was as follows:

	Government were kept informed a in the city, rarray	pologio in the	e city and	Chingiepae	district of for treatment
	tal, additional accommodation was reasing number of eases. Hospital	Attacks	Deaths	Attacks	Deaths
-	one lst varience doding to be in a low large of days and a large of days and the large of the la	26 41 387 721	9	and and 4 on a store take take take take take take take tak	been by O
	the district under the jurisdiction		192	H 201-1311 210	olania 18.13 la

Stray cases of cholera were reported in the city during the first and second quarters of the year. Most of them were imported cases from the adjoining districts. During the beginning of the third quarter, incidence of cholera showed an increase, imported cases in congested slum areas forming the focus of infection. This continued and reached its peak in the middle of October and gradually declined towards the end of the year. The noticeable feature of the incidence of cholera during this period was that it was confined practically to slum areas. The areas worst affected were Washermanpet, Pulianthope, Chintadripet, Goyathope, Krishnampet and Mirsahibpet. In all these places, the focus of infection was imported places from outside the city. Few or no cases were reported from middle class and first-class residential areas. Infection was from case to case in the slum areas due to promiscuity resulting from un-precedented over-crowding in these areas. Water supply was above suspicion. In the extended areas all wells were periodically chlorinated during this period. There were only a very few cases from these areas. As stated above, infection was confined to five or six areas and flitted from one to an other.

The possibility of the infection invading the city was foreseen because of the incidence of cholera during the early half of the year and its prevalence in the Province, particularly in the adjoining districts. Anticipating this, preventive measures were taken very early. But for this, the incidence of cholera in the city would have been considerably greater.

Preventive inoculation was advised by press notifications as early as in April 1948 and the public were reminded from time to time during May and June. When the epidemic came to stay during the month of August and onwards, concentrated efforts were made to prevent the spread of infection and to immunise as many as possible. Over 6.25 lakks of persons were inoculated by the end of the year

To implement these preventive measures, additional staff was employed undersection 11 of the Madras City Municipal Act. Special conservancy staff was appointed
for cleaning infected and vulnerable areas and to prevent fly breeding by the
use of D.D.T. Additional staff was also appointed for immunising as large a percentage
of the population as possible. To make this more effective, the Government was,
requested to declare the city threatened with an out-break of cholera under
section 76 (1) (a) of the Madras Public Health Act and in G.O. M.S. No. 3378, dated
1-4-1948 the city was so declared.

As trained staff was not available for appointment as Cholera Inspectors, qualified Sanitary Inspectors who were working as Vaccination Inspectors and Medical Officers engaged in medical inspection work were placed on special duty for control measures. Isolation of all suspected cases of cholera was relentlessly enforced. In vulnerable areas, staff was posted throughout the 24 hours in shifts. Ambulance service was augmented. To avoid delays in immediate disinfection, moving squads in lorries were appointed to follow-up the ambulance cars, night and day. As a result of these concerted efforts, it was possible to limit the infection in isolated areas and to completely eradicate the epidemic by the end of the year. The Government were kept informed of the day-to-day situation of the incidence of cholera in the city.

To meet the increasing demand in the hospital, additional accommodation was provided, as also necessary staff to deal with the increasing number of cases. Hospital staff of every cadre (i. e.) Medical Officers, Nurses and other subordinate staff were increased and at no time the hospital was understaffed or without necessary accommodation. Early steps were taken to equip the hospital with the necessary stores, medicines and other auxiliary requirements. The hospital also had to deal with a fair number of cases admitted from the adjoining villages of the district under the jurisdiction of the Chingleput District Board.

Diarrhoea and Dysentery:—Diarrhoea and dysentery accounted for 3,112 deaths during the year and the death rate was 3'17 per mille of the estimated population against 3,847 deaths and a death rate of 3'97 per mille in 1947. The quinquennial average rate was 3'87 deaths per mille. The number of deaths from diarrhoea and dysentery during the year was 10'04 per cent of the total mortality.

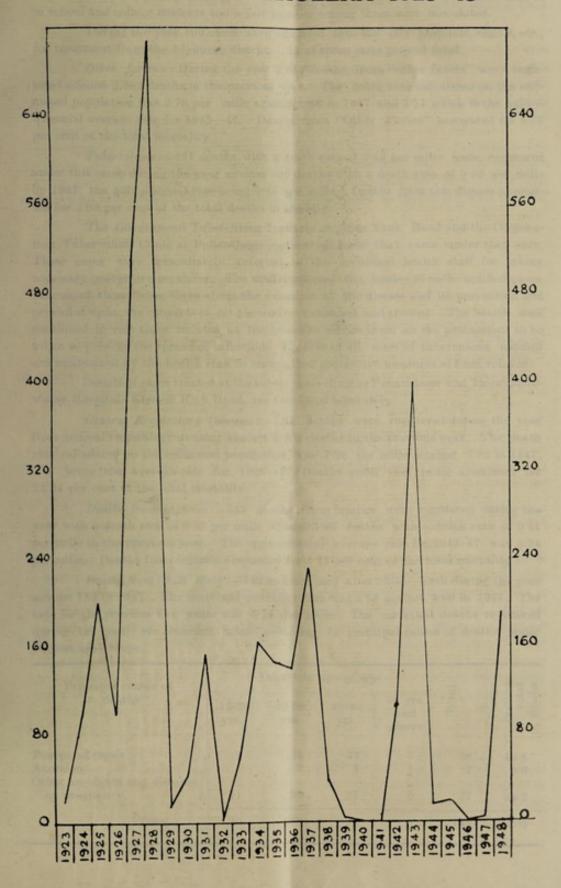
Small-pox:—The city was free from small-pox except for a few stray cases reported during the year. 82 attacks and 12 deaths were reported against 128 attacks and 20 deaths in 1947. The death rate was 0.01 per mille of the estimated population against 0.02 per mille in 1947, the quinquennial (1943—47) average rate being 0.12 per mille. The number of deaths from small-pox accounted for 0.04 per cent of the total mortality.

3 cases were removed to the Infectious Diseases Hospital, Tondiarpet, for treatment from the adjoining district of Chingleput during the year. All of them were discharged after cure.

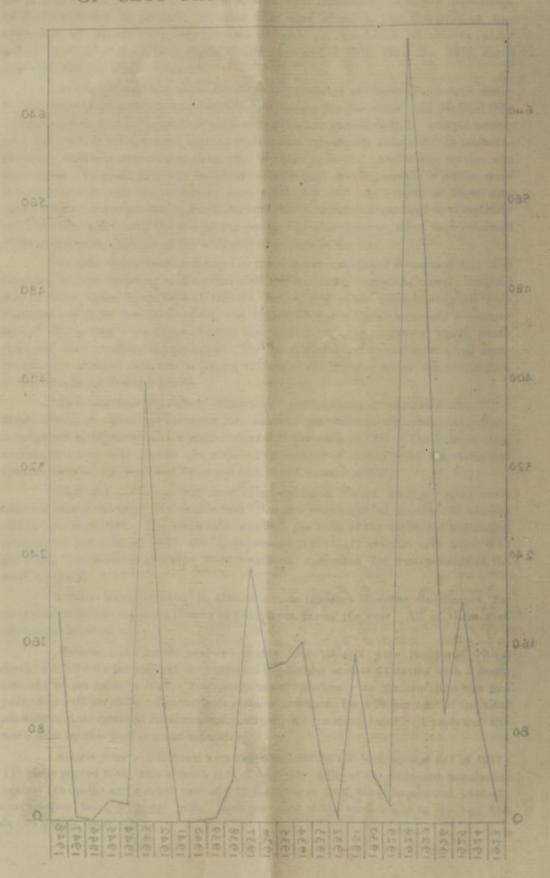
Malaria:—During the year 40 deaths from malaria were registered with a death rate of 0.04 per mille of the estimated population against 55 deaths with a death rate of 0.06 per mille in 1947. The quinquennial average rate for the previous five years was 0.07 per mille. Deaths from malaria accounted for 0.13 per cent of the total mortality. Anti-malarial measures were carried out by a special staff. A report of the work done by this staff is given separately.

Enteric fever: -520 cases were registered during the year against 647 in 1947; 118 cases proved fatal with a death rate of 0·12 per mille of the estimated population against 140 deaths and a death rate of 0·15 per mille in 1947, the quinquennial, 1943-47, average rate being 0·12 per mille. 0·46 per cent of the total deaths in the city was due to enteric fever.

MADRAS CITY DEATHS FROM CHOLERA 1923-48



MADRAS CITY DEATHS FROM CHOLERA 1923 48



Preventive measures were adopted in the case of every notified case.

During the year 14,895 inoculations against typhoid were performed in the city. All servants in licensed places were inoculated. Inoculations were also offerred to school and college students and a fair number among them were inoculated.

During the year 100 cases were admitted into the city hospitals, clinics, etc., for treatment from the adjoining district. 25 of these cases proved fatal.

Other fevers:—During the year 2,657 deaths from "other fevers" were registered against 2,862 deaths in the previous year. The death rate calculated on the estimated population was 2.70 per mille against 2.96 in 1947 and 3.11 which is the quin—quennial average rate for 1943—47. Deaths from "Other Fevers" accounted for 8.57 per cent of the total mortality.

Tuberculosis:—621 deaths with a death rate of 0.63 per mille were registered under this cause during the year against 502 deaths with a death rate of 0.52 per mille in 1947, the quinquennial rate being 0.63 per mille. Deaths from this disease accounted for 2.00 per cent of the total deaths in the city.

The Government Tuberculosis Institute at Spur Tank Road and the Corporation Tuberculosis Clinic at Pulianthope notified all cases that came under their care. These cases were immediately referred to the divisional health staff for taking necessary preventive measures. The staff inspected the houses of such notified cases, instructed those living there about the causation of the disease and its prevention and prevailed upon the contacts to get themselves examined and treated. The health staff continued to visit those isolated at the homes to advise them on the precautions to be taken to prevent the spread of infection. Records of all cases of tuberculosis notified are maintained by the health staff to ensure that preventive measures are not relaxed.

Details of cases treated at the tuberculosis clinic at Palianthope and Thiruvateeswarar Hospital, Konnur High Road, are furnished separately.

General Respiratory Diseases:—7,237 deaths were registered during the year from general respiratory diseases against 6,803 deaths in the previous year. The death rate calculated on the estimated population was 7.36 per mille against 7.03 in 1947, 7.77 being the average rate for 1943-47. Deaths under this cause accounted for 23.34 per cent of the total mortality.

Deaths from injuries:—343 deaths from injuries were registered during the year with a death rate of 0.35 per mille against 3.96 deaths with a death rate of 0.41 per mille in the previous year. The quinquennial average rate for 1943-47 was 0.34 per mille. Deaths from injuries accounted for 1.11 per cent of the total mortality.

Deaths from Child Birth:—142 mothers died after child—birth during the year against 159 in 1947. The maternal mortality rate was 2.83 against 3.90 in 1947. The rate for the previous five years was 5.74 per mille. The maternal deaths registered during the year are classified below according to principal causes of deaths under various age-groups.

Principal causes of	na beilid	Deaths in age-groups				no on series	
deaths deaths	15-20 yrs.	20-30 yrs.	30-40 yrs.	40 yrs. and above	Total	Perce tage 1 tot deatl	
Puerperal sepsis Abortion Other accidents and diseases	by g he l	25 3	22	2	58	40.8	
of pregnancy	11	39	27	0	77	54.2	
Total	20	67	52	3	142	100.0	

The statistics relating to the deaths of mothers who came under the care of the various clinics of the Child Welfare Scheme are given in a separate report by the Lady Superintendent, Child Welfare Scheme.

Deaths from "All other causes": -16,485 deaths from "All other causes" were registered in the city during the year against 15,169 deaths in 1947. The death rate calculated on the estimated population was 16.77 per mille against 15.67 in 1947. The quinquennial average rate for 1943-47 was 16.97 per mille. Deaths under "all other causes" accounted for 53.17 of the total deaths.

Certified deaths:—5,069 deaths were certified by the various clinics, hospitals and institutions in the city and 983 deaths were certified by private medical practitioners as to the causes of deaths. The certified deaths represented 20 % of the total deaths registered during the year compared with 16 % in the previous year. Medical Officers in charge of registration of births and deaths verified the causes of other deaths.

The deal report of the VACCINATION will be did not read to the section of the sec

Vaccinations:—During the year 1,33,815 vaccinations were performed in the city. Of these, 36,250 were primary vaccinations and 97,565 were revaccinations.

Operations:—36,250 primary vaccinations were performed during the year against 37,468 in the previous year. The quinquennial (1943-47) average was 31,636. 97,565 revaccinations were performed in 1948 against 1,27,682 in 1947. The decrease in the number of vaccinations during the year was due to the prevalence of cholera in the city during the latter half of the year. 30 qualified Vaccinators were diverted as Cholera Inspectors for the control of cholera for about 3 months.

Number of successful vaccinations:—36,196 primary vaccinations and 3,643 revaccinations were successful during the year against 37,371 primary vaccinations and 4,981 revaccinations in 1947. The rate of success was 99.9 in primary and 4.8 in revaccinations during the year against 99.9 and 5.2 respectively during 1947.

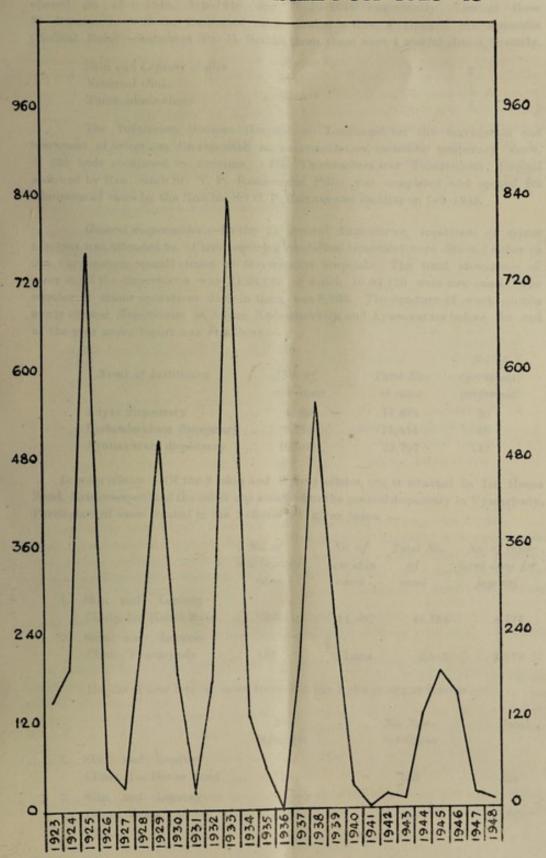
Infantile vaccination: -26,602 or 71% of the primary vaccinations during the year were among infants under one year of age.

Verification of births:—49,555 births including out-births were verified during the year for the purpose of vaccination as compared with 51,737 births in 1947. Of these, 4,623 infants died and 10,327 infants left the city without being vaccinated. 26,602 children or 77% or the available children were successfully vaccinated during the year. Regular house-to-house inspections were made by the Vaccination Staff and the vaccinal conditions noted in the unprotected persons register. During their inspection un-protected children born in the mofussil or those who evaded primary vaccination were detected and protected. Those persons who were not protected against small-pox as required by by-laws were notified to get themselves vaccinated or re-vaccinated. 56 persons were prosecuted during the year for failure to get their children vaccinated. 23 persons were -prosecuted for failure to get themselves re-vaccinated in spite of repeated warnings.

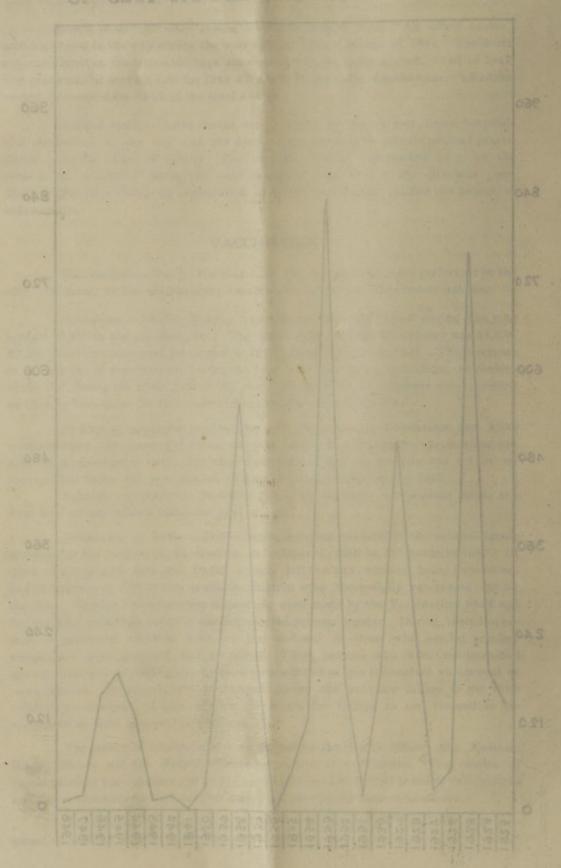
The results of vaccinations were verified by the Health Officer, the Assistant Health Officers and the Medical Officers in charge of vaccination. The results of 23,634 primary vaccinations and 32,518 revaccinations i.e., 65% of primary vaccinations and 33% revaccinations were verified during the year by the inspecting officers.

Postponement of vaccination:—The vaccination of 1,317 children was postponed on medical grounds at the end of the year.

MADRAS CITY DEATHS FROM SMALL-POX 1923-48



DEATHS FROM SMALL-POX 1923-48



MEDICAL RELIEF

There were 29 general dispensaries at the beginning of the year. 3 more, one at Adyar, another at Kodambakkam and the third at Ayanavaram, were opened on 15-8-1948, 1-9-1948 and 16-10-1948 respectively. List of these 32 dispensaries with the number of cases treated in them is given in the Appendix (Medical Relief—Statement No. 1). Besides these, there were 4 special clinics, namely,

Skin and Leprosy clinics	A	18	who die	2
Venereal clinic	***	San Maria San Asia	Company of	100 100 100
Tuberculosis clinic	To an rotan	41 - HILD - HOT-		1

The Infectious Diseases Hospital at Tondiarpet for the segregation and treatment of infectious diseases with an accommodation, including temporary sheds, of 230 beds continued to function. The Thiruvateeswarar Tuberculosis Hospital endowed by Rao Sahib Sri T. P. Ramaswami Pillai was completed and opened for admission of cases by the Hon'ble Sri O. P. Ramaswami Reddiar on 7-9-1948.

General dispensaries:—In the 32 general dispensaries, treatment of minor ailments was attended to. Cases requiring specialised treatment were directed either to the Corporation special clinics or Government hospitals. The total attendance of cases in all the dispensaries was 21,94,068 of which 10,96,130 were new cases. The number of minor operations done in them was 8,865. The out-turn of work in the newly opened dispensaries at Adyar, Kodambakkam and Ayanavaram before the end of the year under report was as follows:—

Name of Institution		No. of	Total No.	No. of operations
11		new cases.	of cases	performed
Adyar dispensary		4,861	- 10 H,615 milita	.0 30 .a
Kodambakkam dispensary		4,781	11,454	68
Ayanavaram dispensary		10,366	23,797	142 C

Leprosy clinics:—Of the 2 skin and leprosy clinics, one is situated in Ice House Road, Krishnampet, and the other was attached to the general dispensary in Vyasarpady. Particulars of cases treated in the 2 clinics are given below:—

		No. of new skin	Total No. of	No. of injec- tions done for
	cases	cases	cases	leprosy
Skin and Leprosy Clinic, Ice House Roa Skin and Leprosy	d 305	ods 14,507	45,159	
Clinic, Vyasarpady	odriono 187	1,604	6,585	am of 3,579

Details of new leprosy cases treated in the 2 clinics are as follows:-

	corned of the discoverar	No.	No. Non-	Total
		Infectious	Infectious	- T
1.	Skin and Leprosy			durary 201
	Clinic, Ice House Road		193	305
2.	Skin and Leprosy	ores were the most	of chancrold or soft s	
Diffe	Clinic, Vyasarpady	mana flo-240 silider	ya diiw a 163 maol)	187
	H-3			

Results of treatment of the leprosy cases in the 2 clinics were :-

cinning of the year. 3 mor	No. Improved	No. Symptom Free	No. Arrested	No. Other- wise	Total
1. Skin and Leprosy Clinic, Ice House Road 2. Skin and Leprosy	. 165	20	loun odt d	106 101	305 bale
	87		nilo 2121qo		

A separate section for the treatment of leprosy cases, especially among children attending Corporation schools, was opened in March, 1948, at the general dispensary in Nungambakkam. 73 such cases were treated there before the end of the year under report. Particulars of anti-leprosy work among Corporation school children are separately dealt with in the report on Medical Inspection of Corporation school children.

A statement of work done in the 2 clinics is annexed in the Appendix.

Venereal clinic:—The total attendance of cases in the clinic for the year was 19,070. The number of new cases among them was 3,477 of which 2,536 were men, 873 were women and 68 were children. Particulars of their ailments are given in the following statement.

Name of disease	8,880	Male	Female	Children	Total
1. Syphilis	manaa	410	234	mogs42mbr	116869
2. Gonorrhoea		955	288	9	1,252
3. Soft Sores or Chancroid	***	872			872
4. Lympho Granuloma	10	170	401111	mour forms	174
5 Yaws	,636.E	1			1
6. Combination of 2 or					
more venereal diseases	[7	172	02	mbakkam	104
7. Genital lesions of				aib maraya	
non-venereal origin		56	285	17	358
Total	of to the	2,536	873	bn 68 ogm	3,477

In the treatment of syphilis at the clinic the use of 'Mapharside' as the arsenic preparation and of 'Bismuth Oxychloride' for bismuth therapy was continued. The treatment of syphilis being a prolonged one, the patients more often than not stayed away before complete cure could be effected. It was, therefore, not possible to assess definitely the results of treatment.

69 cases were referred by the Child Welfare Centres for examination and treatment. 21 of these cases had syphilis and received treatment at the clinic.

The main drug used in the treatment of gonorrhoea was Sulphathiozole and its use proved very effective in relieving the distressing symptoms of patients. Penicillin was used in a few cases. Its use in adequate doses was found to speedily cure gonorrhoea. 90 per cent of the gonorrhoea cases were cured of the disease and the rest were relieved of the distressing symptoms.

Lympho granuloma cases were also treated mainly with Sulphathiozole. Only a few cases were aspirated.

Cases of chancroid or soft sores were the most numerous of the other venereal diseases cases. Gonorrhoea with syphilis or soft sores was the commonest form of

combination of 2 or more venereal diseases. These cases of venereal diseases and of genital lesions of non-venereal origin were successfully treated at the clinic.

Tuberculosis clinic:— Equipped with adequate facilities for the early detection of pulmonary tuberculosis and treatment of cases suitable for out-patient collapse therapy the clinic has been steadily growing in popularity since its inception in 1944 and attracting patients not only from different parts of the city but also from the adjoining mofussil areas. All the patients who attended the clinic were given the benefit of a complete and thorough examination. But, for the purpose of treatment, patients who had come from the mofussil were, after diagnosis, directed to go to the nearest tuberculosis institution from their places. This was done with a view to make it possible for the clinic to concentrate its attention on the prevention of the disease within a radius of 2 or 3 miles around the clinic.

A tuberculosis hospital having been newly established in the year under report, the clinic worked in close co-operation with it. The clinic sent cases deserving institutional treatment to the hospital for admission,

Diagnosis of cases at the clinic was done by thorough and systematic physical, Fluoroscopic, laboratory and if necessary, radiographic examinations. Physical and Fluoroscopic examinations were done as a routine measure for all suspected cases and radiographic examinations were done for special diagnosis and for initiating and following-up treatment of cases. Radiographic examination in respect of cases at the hospital was also done at the clinic for want of such facilities there.

The number of examinations done at the clinic during the year was as follows :-

Laboratory examinations	1. Sputum 2. Blood-smear	perd.Ling	2,959 250
Radiographic examinations	and an analysis of the state of the	***	6,610

The following statement furnishes details of cases attending the clinic in the

No. of repeated cases		7,734 28,434
To the cost Had then been it woll offered over odw inlight to the cost of the	tan alar, d	36,168
No. of pulmonary tuberculosis cases No. of non-pulmonary tuberculosis cases		1,086 103
Total number of tuberculosis cases	. Indian	1,189

1,086 cases of pulmonary tuberculosis included cases of pleurisy with effusion. The distribution of these cases according to sex, community and age-group is set forth below:—

Males Females Children	 766 307 13	Hindus Muslims Christians	bell action	967 75 44	Below 15 years Between 15 to 40 Above 40 years	years	13 867 206	
de only	1,086	receiving as argo and adj in Pulsanthon	days.	1,086	y. Other are treats after the	the out	1,086	

The number of cases in the various stages of the diseases was as follows:-

lo	seases and	in characterist	Stage of the	c capill'	"Ignanos	remercal di	o tour N	umber o	foirst fatio	100
	- 13 - 13	DIRILLY DE	disease		19		Strated S	cases		
goi	rly detect	or the ea	P.T. I		drive 1	- Kquipped	e clinic :-	10141		
880		tagetno	P.T. H	80580	o enon	and treate	n sisoluon	odia8 v		30
800		reenis, sti	P.T. II	Philodol 1	d Sniwi	andily go	as been s	1,017	rapy the	
		toy buc	a of the ci	one mart	differ	only from	don since	integ-pr		SELE
#Be					the a			1,086		
				for the	TEN.		sorough e	in the season of		

A.P. The rest of the cases were given symptomatic treatment.

1,400 injections were given in the symptomatic treatment of cases and 380-A.Ps. including initials and 30 aspirations were done during the year under report. As a result of the treatment done at the clinic 18 cases turned sputum negative.

Every positive case of pulmonary tuberculosis from the city was intimated tothe divisional Sanitary Staff for taking preventive measures. Similar cases from the mofussil were notified to the local health authorities concerned for preventive action.

The Health Visitor of the clinic visited patients in their houses and explained to the contacts the nature of the disease and the need for its prevention and instructed them in the methods to be adopted to prevent its spread. She also visited the patients discharged from the tuberculosis hospital for observation and for bestowing care if they needed further attention.

She paid 1,494 visits and 1,132 contacts at her instance were examined at the clinic. 12 of them proved positive and were treated at the clinic.

Thiruvateeswarar Tuberculosis Hospital, Otteri: — Anti-tuberculosis work undertaken by the Corporation with the establishment of the tuberculosis clinic in the year 1944 was expanded by the opening of the tuberculosis hospital in the year under report.

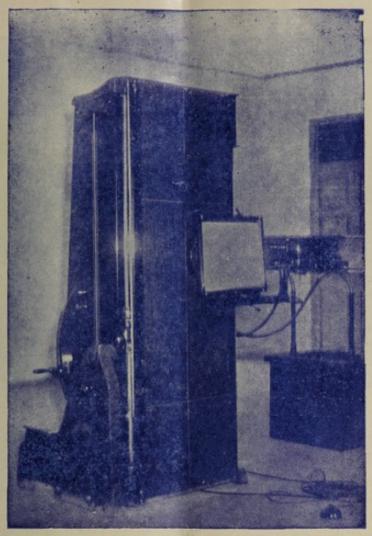
The hospital owes its existence to the generosity of the late Rao Sahib Sri T. P. Ramasawmy Pillai who gave the site for it and met half the cost of its construction. He has also donated Government Securities worth Rs. 15,000, the income from which is to be utilised for meeting a part of the annual expenditure incurred in maintaining the hospital. The total cost of the building is Rs. 3,00,000. The hospital is well equipped at a cost of Rs. 79,704.

The hospital is a spacious two storyed building with attractive frontage. The building consists of a main block in the centre with two wings on either side and a store room and kitchen in the rear.

The hospital is equipped with a laboratory, an operation theatre, X-Ray plant and other clinical appurtenances. There are 4 wards and 12 beds in each ward. One of the wards is set apart for women patients. The Medical Officer in charge of the hospital and his Assistant have both specialised in tuberculosis.

It serves as an observation hospital and receiving station for tuberculosis patients in the city. Cases are treated free of charge and admissions are made only from suitable cases attending the tuberculosis clinic in Pulianthope.

To so an years (1 867



X-ray plant in the Thiruvotteeswarar Tuberculosis Hospital Konnur High Road



Operation theatre in the Thiruvotteeswarar Tuberculosis Hospital Konnur High Road



An interior view of the Public Health Laboratory



Children at play . Ashok Vihar Health and Recreation Centre

During the few months it worked in the year under report 86 patients were admitted and treated. Particulars of admissions made are as follows:—

Age-group		Males	Females	Total
brifiel educat become vil	bison con	Blerie	Lacyneitie	Bonis.
Below 10 years	0.124-755	Terson bo	Peri-onel abroses a	D
11 to 20 years	altiputes	16	Miliary Sperculosi	.18
21 to 30 years	- During	35	Pain in 210 chest	- 50
31 to 40 years	oquip	8	Contra- torpl norm	12
41 years and above	Il solar Co	5.	1	6
	2000		Lucol- showed	1-10
The year.		64	Helmint 22 min	86
E CONTRACTOR OF THE PARTY OF TH			This Lucion	14

Artificial pneumothorax was tried in 42 cases and it was successful in 32 cases. 60 patients received A.P. treatment and the number of refills given was 511. Aspiration of fluid was done 3 times on one patient and of air was done 4 times on 2 patients. 2 cases received Ultra Violet Ray treatment and 1 case was given pneumoperitoneum.

The following examinations were done at the laboratory :-

Motion examinations	Routine 59	
	(Routine 150	
Urine examinations	Albumin 191	
	Albumin 191 Sugar quantitative 60	
Contam for A E D	(Smear 124	
Sputum for A.F.B.	Concentration 19	
Blood Examinations II alida form	(Hb and R.B.C 5	
Blood Examinations	Differential counts 269	
enest of cholern were treated, of when	B.S.R. 239	
	B.S.R. 239 For malarial parasite 5	
Examinations of pleural fluid for T.1	B 3	

adjoining district of Chingleput area were also admitted and treated therein.

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36 patients were discharged and 2 patients died before the year ended. 7 of the patients discharged stayed for too short a period (less than a month) to assess their progress.

Results of treatment of the other discharged cases are given below :-

Results of treatment	3 8	stage	I	Sto	ige	II	Sta	ge III	Total
	A	B	C	A	\boldsymbol{B}	C	A	B C	
Much improved	aupol			0001	1	C cho	o assas	healf.	tique d
Improved	1	1		1	1		1	3	8
Stationary								16	16
Worse						and a	12.5	1	1

It will be seen that all the 5 cases in stages I and II and 7 out of 24 cases in stage III had positive results of treatment.

Complications met with among the cases treated are the following:-

	Tuberculous		No. of cases:
1.	Pleural effusion in A. P. cases		9
2.	Coloured sputum	and million	13
3.	Haemoptysis (Frank)		2
4.	Enteritis and Peritonitis (abdomen)		4
5.	Laryngitis		3
6.	Peri-anal abscess and fistula-in-ano	. i. eow	of woight
7.	Miliary tuberculosis with meningitis		or It
8.	Pain in the chest	verseav.	08 of 25
1).	Contra-lateral spread	*********	3
	Non-tuberculous		
1.	Helminthiasis		2
2.	Diabetes		1
3.	Secondary anaemia	ANY SECOND	2 111
4:	Parkinsonism	toom to the state	1

The Infectious Diseases Hospital, Tondiarpet:—This hospital is primarily intended for the isolation and treatment of cases of infectious diseases occurring in the city. But, in pursuance of G.O. No. 4255 P.H. dated 2-10-1941 cases from the adjoining district of Chingleput area were also admitted and treated therein.

During the year 4,791 patients were treated. 4,749 of them were new admissions for the year. 4,467 patients came from the city and 282 from the Chingle-put district. Before the year ended 4,232 cases were cured and discharged and 488 cases died. The mortality rate for hospital deaths was 10-2%. 1,031 contacts were also admitted.

86 patients were treated for small-pox and 81 of them were admitted during the year; 52 were cured and discharged while 11 died. The rate of mortality from small-pox was 12.8 per cent. 1,301 cases of cholera were treated, of whom 205 died. The case mortality was 15.8 per cent.

To cope with the large number of admissions made for cholera, accommodation was increased by erecting 3 thatched sheds with provision for 60 beds. Under Section 11 of the M.C.M. Act the strength of the medical, nursing, clerical and menial staff was considerably increased during the cholera epidemic.

Investigation of the treatment of cholera with Formol Cibazol:—Following the demonstration of the efficacy of sulphaguanidine in the treatment of bacterial dysentery, the value of this drug has been the subject of investigation in other intestinal infections and in cholera. An earlier investigation conducted in the Infectious Diseases Hospital, Tondiarpet, and followed up subsequently at other places failed to reveal the superiority of this drug over modern methods of treatment in hospitalised cases of cholera receiving adequate quantities of saline and other supportive treatment. The latest in this group of drugs for which a claim of considerable usefulness had been made is Formol Cibazol. An ample supply of this drug placed at the disposal of the Director, King Institute, Guindy, was utilised in carrying out a controlled trial at the Infectious Diseases Hospital, Tondiarpet, commencing from the 13th October till the end of November, 1948, when the epidemic subsided. The cases were under close and continuous observation of the three Assistant Research Officers of the Cholera Treatment Unit of the King Institute, Guindy. Of 138 cases in

whom the diagnosis of cholera was confirmed by bacteriological examination, 75 cases received this drug while the remaining 63 received the treatment which was routine at the hospital at the time. The mortality rates in these two groups of cases were 7 and 6 respectively, showing no significant difference.

Observations however on the repeated daily examinations of stools in a selected number of cases during convalescence revealed that the stools of cases receiving formol cibazol became vibrio-free earlier than the cases in the controlled group.

Public Health Laboratory:—During the year under report the Public Health Laboratory was provided with full equipment to make it complete and it undertook not only clinical pathological tests but also bacteriological and serological tests. The number of tests done and the amount of fees realized thereby showed considerable increase for the year.

5,643 specimens were received and examined at the laboratory against 1,575 in the previous year. 654 of these specimens were charged for and the fees collected amounted to Rs. 1,635 against Rs. 647-8-0 for the year 1947.

The specimens dealt with during the year were received from the following sources:—

	No.	of specimens rece
	that to astrona lead	2,776
Corporation General Dispensaries		437
Corporation Special Clinics	sections itake been	miwo680 of V
Child Welfare Centres	t of them are tany	475
Others	:- This is for the bes	1,275

eived

rest, go

The classification of the specimens received for examination and report is given below:—

1.	Blood for gel, chopra, khan tests, Hb/R.B.C., etc	1,211
2.	Blood smears	2,047
13.	Sputum timbs erew nephlide bt. Atel engl lo dinox	orla se461rC
4.	Urine applied old spareve as att 3101 ledimond the	dim412-de
5.	Motion was being ald mind Daries desired 32 worlden	1,323
6	Other smears for gonoccoci, lepra bacilli, etc.	189

1,131 specimens of motion from I.D.H.T. were examined; 461 specimens of sputum for T.B. examination were received and 146 of them were found T.B. positive, 791 specimens of blood were received for khan test and the number of specimens found positive on examination was 189.

The extension to the laboratory building taken up in the previous year was nearing completion at the end of the year under report.

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Ashok Vihar Health and Recreation Centre:—The Corporation of Madras had in view the opening of a community contre, where health and recreation could be provided. It became possible to give effect to this idea, when the Hope Club, which was an Army Welfare Centre, was available for use for any public purpose. By the kind offices of Lady Nye and through the efforts of the Madras Provincial Welfare Association this building together with a sum of Rs. 1,05,000 was placed at the disposal of the Corporation for starting a health and recreation centre.

This centre is the first of its kind in India and was opened on the 29th of May, 1948, by Lady Nye. It has been modelled on the same lines as the Peckham Health Centre, London, with necessary modifications to suit local conditions.

The primary object of the centre is to maintain optimum standards of health by periodic overhauls, advice and to provide recreational and educational facilities to all the members of the family as a unit as distinct from the services available to the individual. With this object in view, families consisting of parents, children and dependent members have been enrolled as members of the centre. The facilities afforded in the centre are intended to be taken advantage of chiefly by the less privileged class of families residing in the neighbouring slums which are at a walking distance from the centre. Membership to the more privileged class of families has been restricted to a minor percentage. The membership fee is one anna per family per month. This fee is nominal and is meant to make the family realise that they are contributing some thing within their means for the various amenities they get in return.

The centre has also for its aim the raising of the standard of living of the families residing in the slums in all aspects of life, viz., social, economic, educational, etc.

The Director who is a qualified doctor is responsible for running the centre and is assisted by a Lady Doctor and three welfare organizers.

The total family membership was 143 in June, 1948, and it increased to 277 by December, 1948. The total number of individual members was 1,518.

The following sections have been provided at the centre.

Creche section:—This is for the benefit of working mothers so that they can be eare free of their children during their working hours. Children under the age of six are admitted in this section. They are left in the creche by the mothers before they go on work in the mornings and are taken back home in the evenings. During their stay they are given the necessary toilet, change of clothing, nourishing food, adequate rest, games and nursery education.

During the month of June, 1948, 36 children were admitted and it increased to 55 in the month of December, 1948. On an average the children have put on 4 lbs. each and the increase in height was 1½". During this period 32 were treated for sore eyes, 18 for fevers, 11 for diarrhoea, 9 for skin diseases, 4 for ton-ilitis, 4 for whooping cough, 2 for mumps, 2 for vaccination reaction, 1 for measles and 3 were transferred to the Broadway Creche and 3 left of their own accord. 10 children received primary vaccination and all of them had worm treatment.

Nursery education was imparted to the pre-school age-group of children by the Montessori method.

Women's section:—Here women members come at their leisure and take part in recreation and music. They are taught useful handicrafts such as needle work and tailoring and also talks are given on mothercraft, child welfare, nutrition, prevention of diseases, domestic economy, etc. Adult literacy classes are conducted for their benefit.

For the children in the creche these members made 62 under wears, 35 jumbers and 8 cradle sheets. Besides, the following were also prepared;—borders for six mosquito nets, two sets of dental chair cover, 3 table cloths, 6 handkerchieves, 4 bodice,

Wellers Centre, was available for use for any public purpose. By the kind offices of

4 blouses, 4 yards lace, 2 pillow covers, 2 sets of cushion covers, 3 baby caps and 2 plantain fibre bags. From the wool supplied by the Bharath Seva Sahayak Sammithi, 28 mufflers were knitted and sent to the soldiers on active service in Kashmir.

The members took part in decorating the section during festive occasions, at the same time celebrating the occasions in a fitting manner.

Men's section:—This is more or less run on the same lines as the women's section excepting that facilities have not been provided for learning handicrafts. The men come to the centre with the sole object of taking part in some games or music. In-door games such as carom, bagatelle, darts, ring boards and out-door games such as volley ball, tenniquoit and badminton are provided at the centre. The nearby Stadium is used for playing games like football and hockey. A carom tournament was conducted and members were also given training in physical culture.

Girls' and boys' sections:—The sections are separate. Girls and boys usually attend the centre in the afternoons after they return from schools. But, on holidays, they come to the centre quite early. In these sections the following are specially attended to.

- 1. Personal hygiene:—Facilities are given to the children to have their baths. Soap, towel and cocoanut oil are given free. After bath and toilet they change into the uniforms provided at the centre and, when the day's activities are over, they put on their own clothes and the used uniforms are sent to the dhoby for wash.
- Education:—To such of those children who are not in a position to attend school, elementary education is imparted. All of them are taught creative activity such as drawing, painting and scrap book making.
- 3. Music: -Folk lore, national songs, etc.
- 4. Recreation:— In-door games such as carom, bagatelle and snakes and ladders and out-door games such as skipping, tenniquoit, group games and drill. About 100 children came to the centre daily though on Sundays they were usually more.

65 boys and girls were admitted in the Corporation schools.

Auditorium:—There is a large auditorium with a stage for the benefit of those who wish to take part in dramas and variety entertainments. Students from schools and colleges also entertain the members now and then. A 16 m. m. sound projector is provided to exhibit films on health, education and topics of general interest. This is also used as a reading room and library.

Two dramas, one by Rajajipuram members and the other by Periamet members were staged. Films kindly lent by the United States Information Service and British Information Services were exhibited to the members once a week.

Canteen: — Food for the maternity section and for the children in the creche is prepared here and given free of cost. In the afternoons snacks and tea are prepared and sold to the members at cost price.

Maternity section.—Expectant mothers among the members undergo periodic ante-natal examination and the necessary advice is given by the Lady Doctor in charge. There is a labour ward with provision for six beds. 50 ante-natal examinations were made and 24 deliveries conducted during the year.

Health overhauls:—Every individual member of the family on admission undergoes complete medical examination by the Director and the Assistant Director and the findings are recorded in specially prepared case sheets. The members are also referred to the various special sections provided at the centre. For the purpose eye, dental, ear, nose, and throat sections have been opened and each is in charge of a specialist. Members who require special pathological investigations are referred to the Pathologist attached to the Corporation Public Health Laboratory. When all the individuals in the family have been examined the whole family meets in a consultation and the health of every one is discussed with the head of the family. Nothing is withheld in these talks. Whatever defect, found in the members of the family, is frankly reviewed and necessary advice given for the benefit of all concerned.

There is a small dispensary for treating minor ailments and injuries. Members suffering from major ailments are given necessary advice and are referred to the various hospitals in the city. Preventive inoculations to the members are carried out periodically and when necessary.

No.	of	general examinations	the ocutre	469
,,	of	dental "		244
,1	of	E.N.T.	rapsing th	251
Along	of	eye	ibhy process	166
"	of	out-patient cases treated	ban lower	894
"	of	children inoculated against cholera	Pate appropriate	150

Social contact:—The Director, the Assistant Director and the welfare organisers visit the members in their homes almost daily in the mornings. During these visits, besides making enquiries about their health and the progress of their children in the schools, advice is given on personal and domestic hygiene. Post-natal cases which have been discharged from the maternity ward of the centre are contacted and the health of the mother and baby noted. Members who are unable to come to the centre due to illness are attended to in their homes. Children are admitted in the schools. The staff in addition identify themselves with their difficulties and problems, helping as far as possible to find a solution for them.

General:—Sports was conducted at the Stadium during the month of December, 1948 when members of all sections took part. Entertainment was staged by the creche children on Christmas Eve. All the children received presents and sweets on the occasion. Members were taken on excursions to the Zoo and My Lady's Gardens.

Visitors: - The centre was visited by the following during the year:

The Hon. Pandit Jawaharlal Nehru. Prime Minister of India.

The Hon. Rajkumari Amrit Kaur, Health Minister, Government of India.

Dr. K. C. K. E. Raja, Director General of Health Services, Government of India.

Sir Archibald Nye, Governor of Madras.

Her Highness the Maharani of Bhavanagar.

His Highness the Maharaja of Bhavanagar, Governor of Madras

Srimathi Suchetha Kripalini.

The Hon. A. B. Shetty, Minister for Public Health, Madras.

The Hon. B. Gopal Reddy, Minister for Finance, Madras.

Dr. Miss R. Karnad, Deputy Director (Nutrition), Government of India.

Srimathi Kuttimalu Ammal, President, Poor Home Society.

Sri K. N. Kurup, Hon. Superintendent, Poor Home Society.

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Dr. Gelner, W. H. O., Geneva.

Dr. P. Lind. Ph. D., Copenhagen, Denmark.

Dr. P. V. Benjamin, T. B. Advisor, Government of India.

Dr. T. V. Neelakantan, Citizenship Special Officer, Madras.

Miss M. Charles, Secretary, Y.W.C.A., Madras.

Miss Annamma Josheph, Y.W C.A. Ernakulam.

Sri Ram Bajpai.

Srimathi Raksha Saran, Jt. Secretary, Women Ministry of Relief and Rehabilitation, Government of India.

Mr. R. F. S. Demel, Mayor of Colombo.

Miss Anna Mary Noll, Rockfeller Foundation, Delhi.

Mrs. Ruth J. Egerton.

Miss K. Varalakshmi Rao.

Sri Manilal B. Mehat, Retired Deputy Political Agent, W. I. States Agency.

Dr. Barkat Narain, Director, Health Services, Delhi

Dr. R. K. Anderson, M. D., Rockfeller Foundation.

Dr. A. C. Barbare, Provincial Nutrition Officer, Shillong, Assam.

MEDICAL INSPECTION OF CORPORATION SCHOOLS, 1948--49

As in the previous year the medical inspection of schools was done by the Medical Officers of registration of births and deaths and vaccination. Treatment of defective children at the school premises was also continued under their supervision.

Routine of work:—Medical inspection work was done under great strain during the year as the Medical Officers had to pay special attention to anti-cholera work. As many chidren in as many schools as were possible were examined before the close of the school year and defectives among them were treated with the assistance of the school staff.

Out of 174 schools 134 schools were visited and medical examination and treatment of defectives were conducted. The total number on rolls in the schools inspected was 26,935 boys and 16,061 girls. The average daily attendance in them was 22,147 boys and 12,074 girls. 22,790 boys and 12,422 girls have been examined at these inspections. 9,500 boys (41.68%) and 4,285 girls (34.50%) were defective and required treatment. They were treated by the Medical Inspection Staff.

Personal hygiene:—1,156 boys (5.07%) and 129 girls (1.04%) were dirty in their person and clothing and they were made to bathe in the schools. Some of them having skin diseases as scabies were treated after they had their baths in the schools.

Malnutrition:—3,906 boys (17·14%) and 1,583 girls (12·74%) were undernourished as against 17·22% and 11·85% respectively in the previous year. They were
given shark liver oil, calcium lactate and milk for improving their condition. 2,425
boys (10·64%) and 480 girls (3·86%) had dental and oral complaints. 1,560 children had
stomatitis and were treated at the schools with benefit. 81 children had their carious
teeth extracted. 1,822 had enlarged tonsils and received appropriate treatment. 62 of
them had their tonsils removed by operation at the Government hospitals for gross
infection. 25 children had their defective vision either corrected by wearing glasses
or improved by a course of vitamin oil. 300 children received treatment for discharge
from the ear, 6 were defective in hearing and were provided with seats close to
teachers. 3 children were having defects of speech.

Shark liver oil and calcium lactate were administered to 6,495 children. 1,763 having stomatitis and other allied defects of nutritional origin were given yeast powder.

Circulatory and respiratory diseases:—130 boys (0.57%) and 113 girls (0.91%) had defects relating to heart and blood. 170 aneamic children improved by treatment. Five children had enlarged spleen due to malaria and they were suitably treated.

Diseases of bones and joints and nervous systems:—653 children had deformities of chest due to rickets in childhood, 16 children had infantile palsies and functional disorders of nerves. All of them were suitably treated.

Infectious and contagious diseases:—1,300 boys (5.70%) and 805 girls (6.48%) had infectious and contagious diseases, the corresponding percentages for the previous year being 7.20 and 8.12 respectively. 1,423 children were having scabies as against 1,588 in the previous year and suitable treatment was given to them. 502 children had signs and symptoms of leprosy. They received treatment at the various skin clinics in the city. In most of them there was good improvement.

General preventive work:—19,389 children were protecte'i against small-pox by revaccination. 26,154 children were inoculated against cholera and 3,450 against typhoid.

B. C. G. Vaccination:—Advantage was taken of the presence of the special team of doctors in the city to have the Corporation school children tested for the need for protection against tuberculosis. Before the schools closed for summer 6,439 children were tested. Out of this, 2,862 needed protection and were given B. C. G. vaccination. The work is being continued.

Other diseases: -22 children underwent circumcision operation for phimosis on medical advise.

Medical treatment:—As in the previous years most of the defects related to malnutrition and vitamin deficiencies and were treated at the schools with the eo-operation of the school staff. 11,714 children received such treatment, and 2,200 children had to be sent to Corporation dispensaries for treatment of certain ailments that could not be attended to at the schools. 1,924 children were sent to Government hospitals for treatment of more serious ailments.

Re-inspections:—850 re-visits to schools were paid after routine inspections for treatment and re-examination of defectives. 16,302 re-examinations of children were conducted during these re-visits.

Co-operation of parents and teachers:—2,862 parents of defective children were present at the schools during the inspection and treatment of their children. The details of medical attention bestowed on their children were explained to them and their co-operation sought. The school staff made effective arrangements for the treatment of ailing children and the good results obtained were due to their interest in the work. Special attention was bestowed on the treatment of leper children.

School sanitation:—12 school buildings were unsuitable for school purposes. In 49 schools improvements were suggested to the existing buildings. 114 schools had flush-out latrines. 56 schools required play ground accommodation. Proper water supply has been provided in all the schools. Sanitary condition of the schools in the added areas needed improvement and is being attended to.

Midday meals:—8,138 children in 141 schools situated in poorer localities were provided with midday meals on school working days. The Medical Inspectors supervised the arrangements made for the distribution of meals.

Propaganda:—100 lectures and 279 talks on health subjects were arranged in the schools. The total attendance at these lectures and talks was 14,087.

Milk supply:—Supply of reconstituted milk was continued during the year. 28,266 children who did not get midday meals were given milk on school working days. Each child was given 8 ozs. of the milk.

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Dr. P. Sadasivan was Health Officer up to 26-4-1948 and he went on leave for 4 months from 26-4-1948 preparatory to retirement. Dr. S. E. D.Masilamani succeeded him and became Health Officer of the city from 26-4-1948. His appointment as the City Health Officer was confirmed by the Government in their G.O. M.S. No. 1061 P.H. dated 26-3-1949.

There were five Assistant Health Officers and a Sub-Assistant Health Officer to assist the Health Officer in looking after the health administration of the city. Each Assistant Health Officer was in charge of a range comprising 10 divisions each. Division 35 in the 4th range and divisions 47, 48 and 49 in the 5th range were under the separate charge of the Sub-Assistant Health Officer. Divisions 17, 22, 35, and 48 having been bifurcated for administrative purposes, there were 54 divisional Sanitary Inspectors to attend to the maintenance of sanitation in the 50 divisions of the city.

Sewers and flush-out latrines:—The work of laying sewers in areas of the city without such facility proceeded apace during the year and as much as 96, 792 feet of sewers were laid against 55,474 feet in the previous year. In Perambur, Thyagarayanagar and Adyar areas alone 14,654 feet, 23,180 feet and 18,833 feet of sewers were laid. The rest of the sewers was laid in Tondiarpet, Vyasarpady, Purasawalkam, Kilpauk, Chetpet, Aminjikarai, Napier Park, Greams Road, Ice House Road, North Mylapore and South Mylapore areas. A statement showing the progress of sewer laying in the year is furnished in the Appendix.

The construction of the flush-out type of latrines also made good progressed during the year. 2,125 flush-out latrines were provided in private dwellings. The Special Works Department constructed 1,775 of these flush-out latrines. The construction of the rest was done by licensed plumbers.

Housing:—The division Sanitary Inspectors did systematic inspection of houses for taking action to rectify defects noticed in their sanitary condition. 36,356 houses were inspected by them as a routine measure and 1,880 houses were inspected for investigating and remedying complaints received. The number of houses in which sanitary defects were noticed was as follows:—

No. of houses without proper drainage	purstance :	2,236
No. of houses without adequate latrine accommodation	Dr. Vale	1,469
No. of houses without adequate water-supply		1,153
No. of houses without proper ventilation	chin was 2	2,064
No. of houses otherwise defective	and for our	5,267
He provision of the proof coverage rapes of the		

8,885 notices were issued for the rectification of these defects and 874 prosecutions were instituted for failure to comply with the terms of the notices issued. As a result of action taken by the divisional staff 6,891 houses were repaired and improved.

695 building applications were received for scrutiny with regard to ventilation, light, etc. 362 of these applications were refused for sanitary reasons. In the case of applications for construction and reconstruction of houses in sewered areas, the provition of flush-out type of latrines was recommended.

Offensive trades:—12,161 applications for licences to carry on offensive trades were dealt with during the year. 11,881 of these were sanctioned and 187 were refused. 93 applications were pending at the end of the year. 516 prosecutions for running offensive trades without licence and 379 prosecutions for contravening the conditions of licence were instituted. 107 lodging houses were registered under the Public Health Act.

There were 2,240 private cattle-yards and 607 of these cattle-yards were not in a fit condition to be licensed. 672 notices were issued to effect improvements to the insanitary cattle-yards and 416 prosecutions were launched for failure to comply with the terms of the notices issued. The closure of 83 cattle-yards was effected as a result of action taken.

Cattle-yards were, as an experimental measure, placed under the supervision of Veterinary Assistant Surgeons for attending to the health of the milch-cattle besides ensuring the sanitary up-keep of the places where the animals were housed. The Veterinary Assistant Surgeons inspected the cattle yards 7,589 times and inoculated 2,107 animals against rinderpest. They also did curative treatment for foot and mouth disease.

The public cattle-yards in Basin Road and Purasawalkam continued to be at the disposal of the Madras Co-operative Milk Supply Union. The public cattle-yards in Chintadripet and Triplicane were maintained in a sanitary condition.

The Corporation dhoby-khanas in Robinson Park, Conran Smith Nagar, Venkatathri Naicken Street, Chetpet and Mylapore functioned satisfactorily. The dhobykhana in Suriyanarayana Chetty Street, New Washermanpet, was opened for use during the year. It has 40 washing stones.

Food control:—There were 7 public markets and 42 private markets situated in different parts of the city. All the public markets were kept in a sanitary condition. Moore Market and Fruit Market continued to be under the care of whole-time Superintendents. In Fruit-market a row of open stalls was constructed between the two row of stalls occupied by the flower vendors behind the main building. In Moore Market many improvements were effected. 4 blocks of hawkers stalls were constructed and the construction of 2 more blocks was under progress at the end of the year. A new pork stall on up-to-date lines was constructed and a new annexe for beef stalls was under construction. In Thyagarayanagar new mutton stalls were constructed at the junction of Dr. Nair Road and Sir Thyagaraya Road.

Every private market was subjected to constant inspection by the divisional sanitary staff for ensuring their sanitary upkeep and for preventing the sale of unwhole-some and noxious food. The provision of fly-proof coverings especially for prepared

food-stuffs was insisted and spraying of D.D.T. was done as a measure of prevention against flies. Food exposed to dust and flies was seized by the divisional staff and destroyed.

Meat supply:—Control over the supply of meat to the city was exercised by permitting the sale of flesh of animals slaughtered in recognised abattoirs and restricting its sale in markets and other places licensed for the purpose. For the purpose of slaughtering animals in the city the undermentioned butcheries were maintained by the Corporation.

Description			No.
Sheep Slaughter Houses	TO TO STORY	former - The 2 by	L han gill
Cattle Slaughter House	Division	and in the same of the same	1
Pig Slaughter House	h 1	dayshabel eliment	1

Animals brought for slaughter to the 4 slaughter houses were examined and those found in unhealthy condition were not allowed to be slaughtered. Carcasses and organs of animals slaughtered were also subjected to examination and only those found fit for human consumption were stamped with an indelible mark for verification purposes and allowed to be taken out of the butcheries for sale in the city and the condemned ones were immediately destroyed.

One of the sheep slaughter houses is in Perambur and the other in Saidapet.

The out-turn of work in both the slaughter houses is given below:—

Name of Slaughter House	No. of sheep and goats brought	No. rejected	No. slaughtered	No. of carcasses condemned	No. of organs condemned
Sheep Slaughter House, Perambur	4,13,654	8,467	4,05,187	a lill loss	11,453
Sheep Slaughter House Saidapet	23,027	1,016	22,011	7	416

The cattle slaughter house and the pig slaughter house were both situated in Perambur. The following is the out-turn of work in them for the year.

Nature of Slaughter House	No. of animals brought	No. rejected	No. slaughtered	No. of carcasses condemned	No. of organs condemned
Cattle Slaughter House	26,036	965	25,071	1	10,568
Pig Slaughter House	1,566	6	1,560	6	542

The animals rejected were either diseased, emaciated, immature or pregnant. Carcasses were condemned mainly for emaciation and organs for being cystic, inflammed or parasitic or for having abscesses, cirrhosis, distomatosis, etc.

The veterinary clinical laboratory at Perambur facilitated the ante-mortem examination of animals at the slaughter houses and examined specimens of blood smears, pus smears, facces and urine received from the conservancy cattle depots and

the veterinary dispensaries. The number of specimens received and dealt with during the year is noted below :-

Specimens received	No. examined	No. positive
Blood smears	584	107
	dente of a Turn to dealt	to olas mis 5 minus
Facces	372 min bea	106
Urine	minusom od 2 gro edrai	elemina ani 2 selame
Total	965	220
	THE REAL PROPERTY.	

Weights and Measures:—The 2 Inspectors of Weights, Measures and Scales systematically inspected all public and private markets, bread, rice, fire-wood and kerosene ration-shops, provision stores, oil-man stores and other shops and scrutinized the scales, weights and measures found with the shop keepers. They also intercepted street hawkers and examined the scales, weights and measures in their possession.

The shop-keepers in the city were found to use scales, weights and measures duly tested and stamped, Scales, weights and measures not stamped in the year under report or found with marks of stamping indistinct or obliterated were tested and if they were found to be accurate the shop-keepers were required to have them stamped forthwith. Unstamped scales, weights and measures were also tested and seized to prevent their being used even inadvertantly as genuine ones. Any scale, weight or measure found defective was immediately seized and action taken to deal with the offender.

The improvised measures used for selling gingelly oil and cocoanut oil by viss and palams were seized and their capacity verified. The merchants selling these oils were required to use scales provided with bowel shaped pans for holding the oil to be weighed and sold.

Street-hawkers were mostly found to use scales, weights and measures stamped in the mofussil areas. The Inspectors had such scales, weights and measures verified with the standard ones they had with them and seized defective ones. Such seizures consisted mostly of measures used by curd-vendors and weights used by petty vegetable vendors.

The total number of scales, weights and measures found defective and seized was 1,171 which consisted of the following:—

Scales	195)	
Weights	460	m 4 1 1 1 m
Measures	498	Total 1,171
Spring balances	18	

In 3 cases rope hangers with gunny seating for charcoal bags were found to weigh more than 4 lbs. each and seized and the charcoal dealers warned against the use of such rope-hangers made purposely to weigh heavy and thereby defraud the public. 163 weights kept for use as counterpoises were seized and confiscated. 27 improvised measures purporting to be 1 viss, $\frac{1}{2}$ viss and $\frac{1}{4}$ viss in capacity were seized and confiscated.

226 offenders were prosecuted. Among the prosecutions there were 35 rice ration shops, 2 bread ration shops and 31 fire-wood ration shops. One rice ration shop was prosecuted a second time for using a defective measure. 2 cases of under-weighment ended in conviction and fine. The total amount levied as fines was Rs. 3.251-0-0.

Six merchants dealing in slaked-lime and lime-shells were prosecuted for using baskets as parah measures and convicted and fined. 4 gingelly oil sellers were prosecuted for using improvised measures which were found to be deficient in capacity to hold the quantities they were intended for.

The Inspectors counter-checked the weights of quantities of articles sold to prevent the malpractices of under-measurement and under-weighment. As under-weighment was practised mainly by the fraudulent manipulation of scales, vendors were required to replace the wicker-pans with iron pans and the strings with chains and to clean the pans constantly. To prevent the fraudulent manipulation of palam weights in selling mutton by seers, the Inspectors continued to check the weights of mutton sold and insist on the scales being so suspended as to enable the purchasers to see the pans as well as the weights used.

In kerosene ration shops, the Inspectors not only counter-checked quantities of kerosene given as ration but also measured out the oil to the purchasers and instructed them to adhere labels to indicate the correct level of oil when properly measured.

5 cases of under-measurement and under-weighment in rice, bread and kerosene ration shops were intimated to the ration authorities to be dealt with by them.

Anti-rabic measures:—The measures adopted for the prevention of rabies in the city are the following:

- 1. Licensing of dogs
- 2. Destruction of unlicensed stray dogs

During the year under report 10 persons were licensed for arresting unlicensed dogs in the city. They were under the control of the Superintendent in charge of the Lethal Chamber. They accompanied him in 2 dog vans to various parts in the city and seized dogs found straying about. The Superintendent took the dogs seized by them to the Lethal Chamber where they were destroyed by electrocution.

	Dogs	Bitches	Total
No. of dogs caught during 1948	10,843	11,759	22,602
No. of dogs electrocuted during 1948	8,833	10,828	19,661
No. of dogs given to the 2 Medical Colleges }	229	30	259
No. returned to owners	1,753	876	2,629

147 complaints about dog naisance were received and attended to. All the dogs complained of were caught and destroyed.

A separate batch of 10 persons were licensed for catching pigs in the city. They worked under the control of the Superintendent of the Corporation Slaughter Houses. They caught 358 pigs straying about in the city. 1 of the pigs died and the rest were auctioned at the Pig Slaughter House and immediately slaughtered.

Zoological Garden:—The Zoological Garden revived its former popularity on account of the replenishment of the wild animals made during the year under report. With its specimens of wild animals, beautiful lawns, picturesque lake and facilities for picnic parties and boating, it provided the utmost diversion to the visitors.

It is open on all days between 7 a.m. to 7 p. m. and visitors to it have to pay an entrance fee of one anna per head. Elementary school children are admitted at a

concessional rate of 6 pies per head. Visitors to the zoo are allowed to have joy-rides on elephants on payment of fees. Elephants and camels are also hired out to the public for use on ceremonial occasions.

The right of collecting the entrance fees from visitors to the zoo and the fees for the use of the cycle-stand inside the zoo was leased for the year 1948-49 for a sum of Rs. 33,175 against Rs. 30,000 for 1947-48. The receipts realised by the hire of elephants and camels came to Rs. 1,652, stallage charges to Rs. 402-8-0, sale of animals to Rs. 36 and the charges for shooting pictures to Rs. 200. The right of running the cafe in the zoo was leased out for a sum of Rs. 6,000 for 1948-49 against Rs. 5,000 for 1947-48.

Seven boats plied in the zoo lake. The right of plying them was leased out for a sum of Rs. 6,520 for 1948-49 against Rs. 4,500 for 1947-48.

During the year under report there were 29 births and 31 hatchings among the mammals and birds in the zoo; 1 wolf and 113 birds were purchased and 23 wild animals and 8 birds were received as gifts. Notable among the additions to the zoo are 3 emu and 2 pea-fowl chicks born in the zoo, 1 male black hoolock gibbon and 1 female silvery gibbon received as gifts from H.E. the Maharaja of Bhavanagar, Governor of Madras, 1 black panthar, 2 leopards, 1 tiger, 3 lions and 5 lionesses received as gifts from the Sourashtra Government.

There were 23 deaths due to natural causes among the animals in the Zoo.

100 Tiger Finches and 8 Himalayan birds died of heat wave before they could get
themselves acclimatised.

As complaints were received about nuisance caused by stray monkeys in the city, arrangements were made for their capture and a reward of Rs. 5 offerred for every monkey caught. 38 stray monkeys were caught and 17 of them taken to a forest in Chingleput district and liberated there.

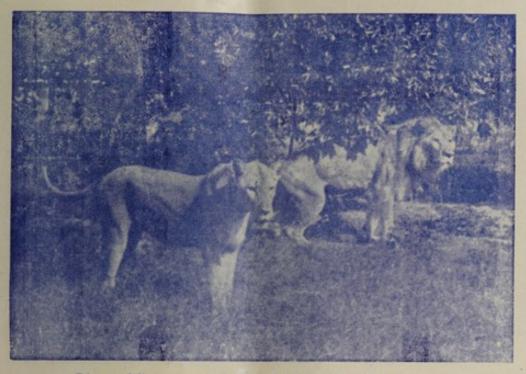
Health propaganda:—Propaganda for educating the public on matters relating to public health was conducted throughout the year. It was done by holding lectures and informal talks especially for the benefit of the illiterate and children and distributing printed leaflets on health subjects.

During the year 1,024 lectures and 1,120 informal talks were held. On 68 occasions the lectures were accompanied by magic lantern demonstrations. During cholera epidemic intensive propaganda was done in the infected areas impressing on the minds of the public the need to get themselves protected against the disease by inoculation and to the prompt removal of cases in the interests not only of the patients but also of others open to infection due to promiscuity.

Khadi, Swadeshi and Industrial Exhibition at Teynampet. The significance of the various charts and exhibits was explained to the visitors by a special staff posted for the purpose there.

Care of destitutes:—The Corporation has been bestowing care on the poor in the city by providing homes for giving food, clothing and shelter to them.

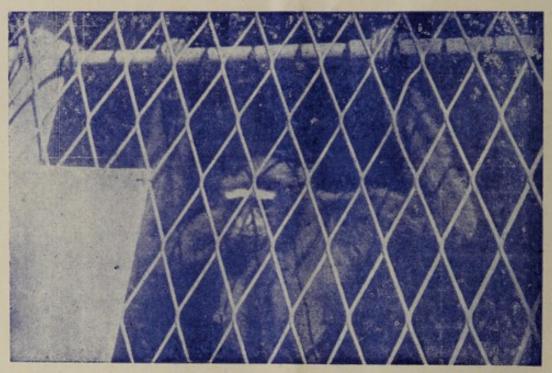
- not salained. Special Home for the diseased and infirm mine bline to snamioogs and dri W
 - 2. Work Houses noiser with stomen out believing it, retited has soirted outply
 - 3. Poor House
- or over on all days between T as mr. to T p. m. a Copphanage of all and the to the copper of all the copy of the c
- a so bearing as Six Homes for the Howeless | band you anna and lo sel consume na yaq



Lion and lioness presented by the Sourashtra Government Zoological Garden



Tiger presented by the Sourashtra Government Zoological Garden



Gibbon presented by H. E. the Maharaja of Bhavnagar, Governor of Madras Zoological Garden



A view of the newly opened maternity ward Child Welfare Centre, Washermenpet

The Special Home is mainted for the compulsory segregation of diseased and invalid beggars in the city under the Madras City Police Act. The strength of the Home on 1-1-1948 was 324 and on 31-12-1948 it was 277. Details of admissions and disposals for the year are given below:

The state of the s	4.00		CONTRACT STATE		
Particulars 08		Men	Women	Children Tota	il.
No. of inmates on 1-1-1948		256	68	- 8101 ni b384	pro .
No. admitted in 1948	I	- 370	84	1 455	pib.
No. discharged on expiry of detention	period	312	84	attall of born 396	pat-
No. released by orders of High Court		***	A Heathigal	instruct to Stanle	
No. transferred to Work House	125		Si Si -	Chill to same	20
No. escaped in 1948.		11.		11	PA-
No. died in 1948	4	. 77	14	91	-
No. of inmates on 31-12-1948	-	226	51	277	1

The beggars committed to the Home during the year were found, at the time of their admission, to be in a very bad state of health, many of them being extremely emaciated and suffering from chronic diseases. Their defects and diseases are set forth below:—

No. blind	16
orporation Standing Committee, Vimilari voll	The merberant the Co
No. suffering from leprosy it believe odmolo	n 10 d -1948. 261 a Mayor of C
No. suffering from tuberculosis	no thomp 25 seb lang no
No. suffering from debility and malnutrition	-9-1948 and 108 Chief, Inspect
No. suffering from other diseases	150

After their admission they were given nourishing food and appropriate medical treatment for their ailments, and they increased in weight and showed remarkable improvement in their general condition.

The inmates kept themselves engaged by doing light work and assisting the staff of the home. They took delight in attending to the garden and growing vegetables for the use of the home. Some of them helped the blind and infirm to bathe and wash their clothes.

By way of recreation and amusement the inmates organised and conducted 2 dramas and a pantomime show. The Aktar Dramatic Troop of Triplicane gave a benefit performance of oriental music and dances and the Toc H Society arranged a cinema show for the benefit of the inmates of the home.

The Independence Day on 15-8-1948 was celebrated with great eclat by the inmates. They had special feeds in the morning and in the evening. They saluted the national flag in a march-past and held a 'bhajina' party when national songs were sung and prayers offerred for the peace and prosperity of their mother land.

A separate dining room and a separate block of 12 flush-out latrines were newly constructed for the exclusive use of the leper inmates of the home.

Among distinguished visitors to the Home were (1) the Mayor of Colombo,

(2) The Chief Inspector of Certified Schools, Bombay, (3) The President of the Indian

Medical Association and (4) Col. Sastri, I.M.S. (Retd.).

The Work House, another compulsory home under the Madras City Police Act, is intended for the reception of beggars in the city capable of doing ordinary manual labour. The strength of the home during the year was as follows:—

Particulars		Men	Women	Children	Total
No. of inmates on 1-1-1948		103	19		122
No. admitted in 1948		255	35		290
No. transferred from Special Home			1	1	2
No. discharged on expiry of committal	period	211	39	1	251
No. escaped in 1948		2	816	1000000	2
No. died in 1948	ATT HIT	1	1	Base of	2
No. transferred to Mental Hospital		8	4	violent la	12
No. transferred to Stanley Hospital		1	1	low present will	2
No. of inmates on 31-12-1948		135	10	And the box	145

Male inmates were taught handi-crafts such as basket making, rope making mat weaving, spinning and cloth weaving. In the female section the inmates were given training in embroidery, croche work and rope making. The articles made by the inmates consisted of rattan trays, waste-paper baskets, cocoanut ropes, mats, bed-sheets, towels, bandage cloth, canvas cloth, khadi cloth and jackets.

Two gardens were maintained—one in the male section and the other in the female section. The vegetables grown were made use of in the home itself.

The members of the Corporation Standing Committee, Works, visited the home on 10-6-1948. The Mayor of Colombo visited it on 23-7-1948, the Hon'ble minister for rural development on 20-8-1948, Municipal Chairman, Coimbatore, on 3-9-1948 and the Chief Inspector of Certified Schools, Bombay, on 23-12-1948.

The Poor House took care of the destitute resorting to it voluntarily for admission. The strength of the home during the year is given below:

Particulars III		Men	Women	Total
No. of inmates on 1-1-1948	tion	ibno 68 100	39 dt a	107
No. admitted in 1948		95	. 54	149
No. discharged in 1948	yes engage	48	35	83
No. escaped in 1948	denganab	30037 Vet	2 2	our 9 1
No died in 1948	v atribo	19	10	29
No. of inmates on 31-12-1948		89	46	135

72 inmates were sent to the Government Stanely Hospital for specialised treatment and 13 of them died there. The other deaths took place in the home, the causes of deaths being colitis, myocarditis, senile debility and heart failure.

The inmates were given special feeds on 11 festive occasions and on the birthday of H. H. the Maharaja of Travancore out of the interest accruing from endowments made for the purpose.

Two variety entertainments for the benefit of the inmates were organised by the Madras branch of the Toc H, one on 20-9-1948 and the other on 13-11-1948.

The Orphanage is a home for bonafide orphan boys of the city below 12 years of age. The strength of the home was 21 on 1-1-1948 and it rose to 49 on 31-12-1948, the following being the number admissions and disposals for the year.

No.	of inmates 1-1-1948	(4) Jann	no21
No.	admitted in 1948		34
No.	discharged in 1948	House,	aros/
No.	escaped in 1948		
No.	of inmates on 31-12-1948	de 30 di	49

ARRESTO TIME

A school section with standards 1 t., 5 is attached to the home and there are 2 women teachers for teaching the children of the home. Recreational facilities for in-door games like chess and dice and for out-door games like foot ball and tenniquoit are provided. A garden is maintained where the boys are trained in gardening work also.

A variety entertainment for the benefit of the children of the home was given by the boys and the girls of the C.E.Z.M. School on 9-10-1948.

Six "Homes for the Homeless" have been provided for the benefit of the numerous casual labourers who, for want of accommodation, live on the open by road-sides and on maidans in the city. These homes provided shelter to the homeless in the city for temporary periods. Those taken in as inmates were allowed to remain in these homes for 2 months only after their admission. They were by that time, expected to find for themselves accommodation elsewhere and quit the homes. But in practice it has been extremely difficult to evict them even several months after expiry of the prescribed period for their stay with the result that many others in need of such shelter could not be accommodated. More homes of this type could not be provided for want of funds.

CONSERVANCY CONSERVANCY

Conservancy of the city continued to be under the control of the Assistant Health Officers and the Sub-Assistant Health Officer and there were 5 Conservancy Supervisors and 54 Conservancy Inspectors to assist them in looking after the work. The 50 divisions were grouped into 5 ranges and each range was under the charge of a Conservancy Supervisor who was assisted by a Conservancy Inspector in each division. Divisions 17, 22, 35 and 48 were further sub-divided and separate Conservancy Inspectors posted for work in the bifurcated areas. 3,751 labourers were employed for the sweeping of streets, cleaning of latrines, removal of sullage from cesspools and maintenance of cattle depots. The total expenditure incurred on conservancy for the year 1948–49 was Rs. 28,56,975 against Rs. 24,72,781 for the previous year.

were used for the removal of filth, sewage, rubbish and silt in the city. 45 motor lorries were allotted for conservancy purposes. Of these, 42 motor lorries were for the removal of rubbish and filth and 3 lorries for the removal of sewage. In addition to the above, 3 new lorries were purchased at the end of the year for conservancy purposes.

Color Lite 121 | Same M. O. O. No. 1012 | L. C. M. dane 22 | L. C. M.

Disposal of rubbish and filth:—About 6,87,896 cart-loads of rubbish were removed during the year against 6,28,976 cart-loads during the previous year. Of these, about 3,84,326 cart-loads were used for raising low-lying places in the city and the rest of the rubbish was dumped at the Otteri, Korrukkupet, and Mylapore dumping grounds.

These demands were unreasonable and extertionate and beyond the financial caractity of

About 67,166 cart-loads of filth were removed during the year. Of these, about 47,210 cart-loads of filth were flushed out into the sewers at the pail depot, Korrukkupet, and the remaining cart-loads were trenched at the dumping grounds in Otteri, Korrukkupet, and Saidapet. The amount relaised by the sale of manure and cow-dung during the year 1948-49 week Rt. 11,426. The tipping plat-forms in Basin Road, Krishnampet and Pudupet worked satisfactorily during the year.

Public latrines:—385 public latrines existed in the city during the year agains 371 in the previous year. Of these, 343 were of the flush-out type and 42 were masonry and sanded latrines. 14 additional public conveniences were opened for public use during the year at the following places:—

Serial. No.	Divi- sion No.	A variety entertainment for the brack of the children of t
1 2 3 4 5 6 7 8 9 10 11 12 13 14	equality of the second of the	Chetty Thottam Jaganatha Naidu Street Venkatakrishnan Street Soliappan Street Kannan Street Peria Palayathamman Koil Street Peria Palayathamman Koil Street Shanmugha Mudali Street Thiagappa Mudali Street Ormes Road Gopathi Lala Street Marina, opposite to the Office of the I. G. of Police Nochikuppam Kaliamman Cheri, Edward Elliots Road

The public flush-out latrines were kept open for use both day and night. The conservancy staff paid special attention to the cleaning and disinfection of public latrines and of places where there was committal of nuisances. 1,450 gallons of disinfectants, 5,981 parahs of chunam and 16,003 lbs. of bleaching powder were used during the year for disinfection of latrines, drains, road sides, etc. 756 persons were prosecuted under the Public Health Act, 1939, for committing nuisance in public places against 721 persons in the previous year.

Conservancy of private institutions:—The removal of rubbish and filth from several public institutions and private establishments in the city was undertaken as per section 197 of the Madras City Municipal Act. The total amount realised by way of fees during the year 1948-49 was Rs. 50,726.

1948-49 was Ra 28,56,975 against Ra 24,55,76t for the previous year

Labour:—In pursuance of G. O. No. 4942 L & M dated 22-12-1931, coolies retiring on account of old age and infirmity were granted bonus. 272 coolies were provided with tenements in the Corporation Model Lines and 348 coolies were allowed to live in Corporation lands.

removal of rubbiel, and flith and 3 lorries for the removal of ewage. In addition to the

Though liberal concessions were granted to the Corporation labourers during 1946, by way of increasing the basic wages, granting house rent and unclean allowances and weekly holidays, introduction of provident fund scheme, etc., the Corporation Labour Union representing mainly the conservancy labourers began agitating even from 1947 on-wards for further increase in workers pay and allowances and more leave facilities and finally gave a notice of strike on 4-3-1948, putting forth a series of exhorbitant demands which if given effect would have cost the Corporation Rs. 30-0 lakhs annually. These demands were unreasonable and extortionate and beyond the financial capacity of the Corporation to be conceeded. Besides, the Union wanted to have a say in the day to day administration of labour i.e. in the matter of appointments, punishments, etc. The Labour Union was informed that the Corporation had always been prepared to meet the legitimate demands of the workers and redress the grievances consistent with its financial capacity and it was asked to withdraw the strike notice and save the workers from the hardships of strike.

A majority of the conservancy workers and drainage and malaria coolies struck work from 12-4-1948. The workers of the Pallavaram Quarry, about 850 in number, also joined the strike. Anticipating such a situation plans were made to carry on the essential services during the strike period and they were put into operation as soon as the strike commenced. Thirteen centres were opened in the Corporation schools and other Corporation buildings for housing and feeding the loyal workers and new recruits to protect them from intimidation and assault. Food required for them was supplied from 3 midday meals centres. Appeals to the public and civic associations were made for co-operation in keeping the city clean during the strike and there was good response from them.

About 800 coolies out of a total complement of 4,200 nearly reported for work on the first day of the strike. Due to intensive propaganda among the labourers, there was day to day improvement in the number of permanent workers returning to duty and in the marching out of carts from the conservancy depots. By 12-5-1948, all the strikers returned to work. The strike lasted for 29 days and the return to work of the strikers was unconditional.

Conservancy cattle depots:—There were 9 conservancy cattle depots in the city during the year under report. 7 of these depots were under the charge of Veterinary Assistant Surgeons and the remaining two under the charge of Sanitary Inspectors. One more Veterinary Assistant was appointed during the year.

Improvements to Kodambakkam and Saidapet cattle depots were done during the year. Additional stalls were put up and the store room extended in the Kodambakkam depot while the Saidapet depot was extended by 30 feet on the eastern side.

From the middle of the month of August, private cattle yards in the city were placed, as an experimental measure, under the control of the Veterinary Assistant Surgeons. For this purpose, the 7 Veterinary Assistant Surgeons were relieved of the charge of conservancy cattle depots and 5 of them posted for supervising the cattle yards in the 5 ranges of the city and 2 of them posted to look after the health and feeding of the animals in all the conservancy depots in the city. The 7 conservancy depots which had been in their charge were placed under the control of the Conservancy Inspectors.

Animals:—The number of animals on hand on 1-1-1948 was 877 against 815 in the previous year and 34 bullocks were purchased and 2 animals were transferred permanently from the Works Department (Parks). 57 animals died during the year and 33 unserviceable animals were sold in auction leaving a balance of 823 animals on 31-12-1948. Out of 57 casualties referred to above, 47 died of old age, 1 of anthrax, 1 of tuberculosis, 2 of trypnosomiasis, 1 of piroplasmosis and 5 of other causes.

Anthrax:—There was only one case of anthrax during the year against 4 in the previous year and all animals were protected with anti-anthrax serum and there were no fresh cases.

Tuberculosis:—There was only one death from tuberculosis against 7 in the previous year. Tuberculine tests were done periodically and the reactors were segregated and treated at 'Hope Lodge', Vyasarpadi.

Trypnosomiasis and piroplasmosis: There were two deaths from trypnosomiasis and one from piroplasmosis. All the animals were examined carefully and blood

serums were taken from suspected ones and preventive measures such as eradicating ticks and flies from stalls were carried out. Thus it was possible to control the spread of the disease.

Foot and mouth:—There was an out-break of foot and mouth disease in Harris-Road depot during the month of August. The affected animals were segregated at Hope Lodge and treated. Preventive measures were strictly and promptly adopted in all the depots. But the disease broke out in two other depots, viz., in 'A' and 'B' depots in a severe form. 'A' depot was converted into a foot and mouth camp and all animals from Hope Lodge were sent there and treated. During the course of the year almost all the depots were affected by this disease. But the conservancy work was carried on without much dislocation. Altogether, 146 animals were affected during the year. The breeding bull at 'B' Bepot was also affected and hence it could not be used for service for some time.

During the year, 1,131 cases were treated in all the conservancy cattle depots against 897 in the previous year and 147 cases treated at Hope Lodge, Vyasarpadi, against 238 cases in the previous year.

Velerinary dispensaries:— In 1945, the Corporation offerred to open 6 veterinary dispensaries, provided Government agreed to contribute Rs. 2, 100/- towards recurring expenditure and Rs. 500/- towards non-recurring expenditure for each dispensary. But, Government, in their order No. 2017 Development Department dated 22-4-1948, considered it sufficient to open only 3 dispensaries in the first instance and sanctioned a subsidy of Rs. 800/- towards recurring expenditure and Rs. 310/- towards non-recurring expenditure for each dispensary. Accordingly 3 dispensaries were opened on 15-8-1948, one at Basin Bridge cattle depot, another at Pudupet depot and the third at Mylapore depot.

The total number of cases treated at the 3 dispensaries from 15-8-1948 to 31-12-1948 was as follows:—

B Depot	politod	most do d bu	a stode	903	cases
. D' do.	et lbe	sed ment to	pun va	611	
F ad do. Talo	eds ai	hone letonave	o consor	1,566	Case I

cittae outtle

conservancy the Conser-

Total ... 3.080 .

The cases were treated for various causes such as fever, respiratory and digestive disorders, sore necks, lameness and skin diseases. Mastitis and retention of placenta were found common among cows. Pregnant cows were also brought for testing. Among the contagious diseases, only foot and mouth disease was prevalent almost throughout the year in one cattle yard or other and the affected animals were suitably treated and their owners were advised to keep them segregated from other animals. Rinderpest was not prevalent, as almost all the city cattle were protected against the disease with the sero-virus method. No case of tuberculosis came for treatment.

Breeding bulls:—The Government in their order M. S. No. 1747 Development Department dated 22-4-1947 approved the scheme for the stationing of breeding bulls for a period of 3 years in the first instance at the Corporation cattle depots. According to this scheme, suitable breeding bulls would be stationed in 7 Corporation cattle depots by the Civil Veterinary Department and maintained at the cost of the Government.

3 stud-bulls were received from the Government on 4-10-1948 and these are stationed at the Basin Bridge, Pudupet and Mylapore cattle depots. A fee of Rs. 1-8-0 per service is collected from the public. A sum of Rs. 22-8-0 was realised for services rendered by these bulls from 14-10-1948 to 31-12-1948.

ANTI-MALARIA OPERATIONS

There was a separate section for carrying out anti-malarial operations in the city. It was under the charge of a Medical Officer with public health qualifications in the grade of a Second Class Health Officer. He was assisted by 5 Supervisors, 58 Maistries and 298 Coolies. The complement of coolies included 10 per cent of the labour staff retrenched as a measure of economy in 1946 and restored in the year under report and was divided into squads and gangs and distributed for work according to the requirements of mosquito control work in each divison.

The main feature of anti-malarial operations was the control and eradication of the malaria carrying mosquitoes, viz., the anaphaline species. Among these species of mosquitoes, Anapheles Stephensi were met with in fresh-water wells and ponds in central parts of the city, Anapheles Culicifacies in wells and tanks in the peripheral parts of the city and Anapheles Subpictus along the edges of Cooum and Adyar rivers when the water was clean. The sources which favoured the breeding of the varieties of anaphaline mosquitoes referred to were kept under effective control.

Special measures were also taken by a special staff for the control of Aedes Aegypti, carriers of Yellow Fever, in the region half-a-mile around the Port area. A certain amount of control of the culex type of mosquitoes was also under-taken with a view to reduce the nuisance from the species. With the complement of staff engaged in the work, effective control over anaphaline and other types of mosquitoes was possible only to the extent indicated above.

Control of anaphaline mosquitoes:—There were about 20,578 wells and 288 tanks in the city affording permanent facilities for the breeding of anaphaline mosquitoes. The following measures were taken to keep the breeding in these wells and tanks under control.

All the wells in the city were regularly inspected and introduced with larvicidal fish; wells not in use were cleaned and oiled before larvicidal fishes were introduced into them. 7 gangs of coolies attended to this work. The tanks in the city were constantly inspected by the divisional sanitary staff and the owners were required to have them cleaned periodically. During the year 196 tanks were cleaned by the owners themselves and they were found to be free from larval breeding. 92 tanks were cleaned by the department—88 on payment of nominal charges by the owners and 4 free of charge on account of storm water draining into them. Every tank was introduced with larvicidal fishes to contol any possible breeding of larvae in it. The cleaning and the removal of rank vegetation, floating moss and weeds were done by 4 gangs of coolies.

The two rivers, Cooum and Adyar, being shallow, water stagnated along their beds, giving rise to mosquito breeding in them. 2 river gangs therefore operated in these rivers, removing weeds and moss, dusting Paris Green and spraying D. D. T. (suspension). Whenever breedings in puddles along the edges of the rivers were found they treated them immediately with oil.

Anti-slegomyia operations:—The measures for the control of Aedes Aegypti or Stegomyia mosquitoes were carried over by a special staff consisting of 8 squads. They confined their attention to the region extending half-a-mile around the Port. They did intensive inspection of the buildings in the area, examined likely places of breeding and attended to neglected drains, cisterns, fire-buckets, etc. A survey of stegomyia mosquitoes was taken and the stegomyia house index for the year ranged from 0.04 to 0.05 against 9.5 when the survey first commenced in 1936. The stegomyia house-index was furnished to the Director of Public Health and the Port Health Officer every month.

Control of culex mosquitoes:—Culex fatigans species of mosquitoes have been found to breed in storm water drains in the city wherever sullage water from houses found its way to and stagnated in them. The existence of cesspools in the areas added to the city also facilitated the breeding of these mosquitoes in those areas.

The net work of drains in the city was taken section by section and 30 drain cleaning gangs attended to the work of desilting, brushing and oiling them once in 4 days. The frequency with which these measures were carried out prevented larvae from pupating and becoming adult mosquitoes. Kelly's Drain, a facile source of breeding, was subjected to special attention. It was flushed by the Special Works Department with sea-water twice a week and this helped to control effectively any larval breeding in it.

The Buckingham Canal also formed a potential breeding place for these mosquitoes. It was therefore well stocked with *Gambusia*, a larvicidal fish noted for its carnivorous habits and mosquito breeding in it as a result was not very common.

To keep the cess-pools in the added areas of the city free from larval breeding bags of saw dust soaked in a mixture of Diesel oil and Kerosene oil with D.D.T. (suspen sion) to the extent of 3 per cent were immersed and allowed to remain in them. This method ensured the gradual liberation of oil to form a thin layer of film on cesspool sullage and thereby kill the larvae breeding therein. It also served as a repellent to female mosquitoes resorting to the cess-pools to lay eggs.

House inspection squads:—Mosquitoes have been found to breed in neglected house drains in garden areas and unsewered parts of the city and also in storage utensils, discarded vessels, broken pots, etc., in houses. These unnoticed sources of breeding of mosquitoes in human habitations were dealt with by house inspection squads in parts other than those served by the Stegomyia squads. The house inspection squads, being inadequate for the whole city, concentrated their attention to places unsewered or partially sewered. The divisions which had the benefit of their service were 17, 17-B, 23, 32, 33, 36, 37, 38, 40, 44, 47 & 50.

Destruction of adult mosquitoes:—Destruction of adult mosquitoes was done wherever their existence was much in evidence and whenever complaints of nuisance from them were received. D. D. T. was the insecticide chiefly used for killing them.

Reclamation of low-lands:—The reclamation of low lying parts in the city put an end to what had previously been good sources of breeding, especially after the rains. During the year under report the following low-lands were filled up.

- 1. Low-land in Thandavaroya Mudaly Street, 1st Division.
- 2. ,, Elaya Mudali Street,
- 3. " Munaram Pandian Lane, 5th Division.
- 4. Boat Basin, Basin Road, 16th Division.
- 5. Low-land in Edward Park, 24th ","

- 6. Low-land in Tank Road, 34th Division
- 7. ,, Nowroji Road
- 8. ,, Thandapani Street, 36th Division.

Reclamation of the following places was under progress at the end of the year under roport.

- 1. Low-land in Puducheri Appasami Gardens, 5th Division.
- 2. ,, to the west of Cockrane Basin Road, 7th Division.
- 3. ,, near Slaughter House, 18th Division.
- 4. ,, in Edward Park Street, 20th Division.
- 5. ,, Nungambakkam Tank, Tank Road, 34th Division.
- 6. Arathakuttai, 46th Division.
- 7. Perambur Tank in front of Railway Station, 10th Division.

REPORT OF THE WATER ANALYST FOR 1948

GENERAL

The year under report was an eventful one as it was an year of drought. The total rainfall recorded in the lake region in 1948 was 25.66" as compared to that of 32.15" in 1947 and 77.36" in 1946 and it was far below the yearly average of 47.21". The maximum lake level of 41.81 feet in February was 4.05 feet below the full tank level and this level fell down to 34.97 feet in October, 1948.

The Red Hills lake water contained a large amount of very finely divided colloidal organic matter derived from microscopic vegetable growth. This growth was accentuated by the decay of organic matter and the presence in normal quantities of oxygen in solution. The raw water, as it reached the Kilpauk end, was of almost the same chemical quality, only a small depletion in its dissolved oxygen content being noticeable.

At the head works, the water was chlorinated and then filtered. During the process of filtration (i) the dissolved oxygen was used up in the process of bacterial decomposition of the organic matter present and (ii) the sulphates were reduced by the action of sulphur reducing "Spirillum Desulfuricans" in the presence of excessive amount of organic matter. The sulphuretted hydrogen thus given out imparted an unpleasant smell to the filtered water.

The sterilization of such a water required a large dose of chlorine. The filtered water thus rendered safe was pumped into the city mains. The water as supplied to the city still contained a large amount of organic matter, the present system of filtration being incapable of preventing this and it deteriorated as it travelled through the lengths of the mains, especially during hot weather. Such deteriorations were more marked at tail ends of the distribution system.

Many complaints were received about the foul odour in the tap water. They were promptly attended to and the uncasiness in the minds of the public was dispelled by explaining to them the reasons for the foul smell in the tap water. They were also advised to store water in broad open vessels for a few hours to get rid of the smell. Bacteriologically the water was found to be "safe" throughout the year.

The question of effectively dealing with the smell problem had long been under examination by several committees of experts and ultimately the Government Committee on "Water and Sewage Purification", after conducting a series of experiments, recommended the installation of rapid mechanical filters as the most

effective solution to this problem. The plans and estimates prepared by the Corporation are under the consideration of the Government. Pending their sanction, the special committees convened during the months of September and December made the following recommendations to mitigate as much as possible the smell without any material alteration to the existing method of filtration.

- (i) Algicidal treatment of the Red Hills Lake water with copper-sulphate periodically to suppress the growth of microflora.
- (ii) (a) Pre-chlorination of the raw water at the Kilpauk end of the conduit with an increased dose.
- (b) Increasing the thickness of the sand layers on the filter bed to a minimum depth of 12" of sand of proper size in one of the filters as an experimental unit and watching the result.
 - (c) Charging of the filter media with super-chlorinated solution of suitable concentration, specified by the King Institute, Guindy, before starting the operation of a bed.
 - (iii) (a) Systematic scouring of the distribution system, section by section, to prevent accumulation of static water and consequent deterioration of the water in the mains.
 - (b) Sterilization of the mains, section by section.
 - (c) Regulation of the scouring and sterilization by more frequent analysis.
 - (d) Appointment of an assistant to cope up with the increased work in the analytical laboratory.

The above suggestions with the exception of the sterilization of the mains were carried out and it resulted in the elimination of the smell in the distribution system to a considerable extent.

SCIENTIFIC

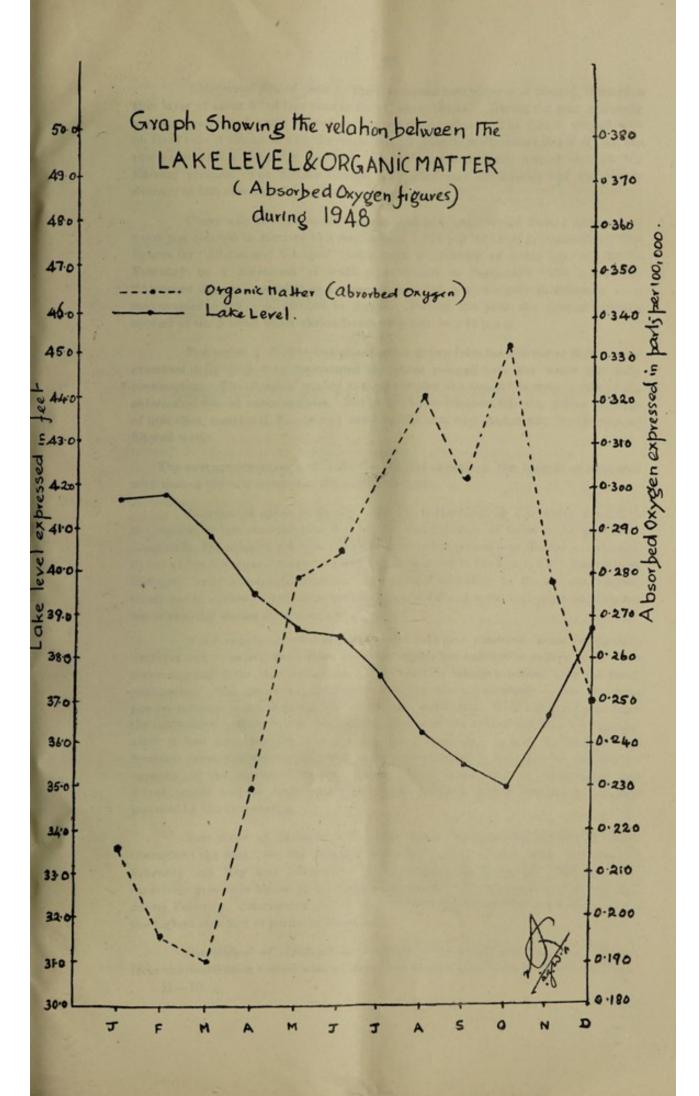
The Red Hills Lake:—The lake water was examined in March, May, July, August, September, October and December during the year. The increasing figures for "Albuminoid Nitrogen" and "Absorbed oxygen" showed that the raw-water contained an excessive amount of organic matter of vegetable origin and this was invariably correlated with the lake level.

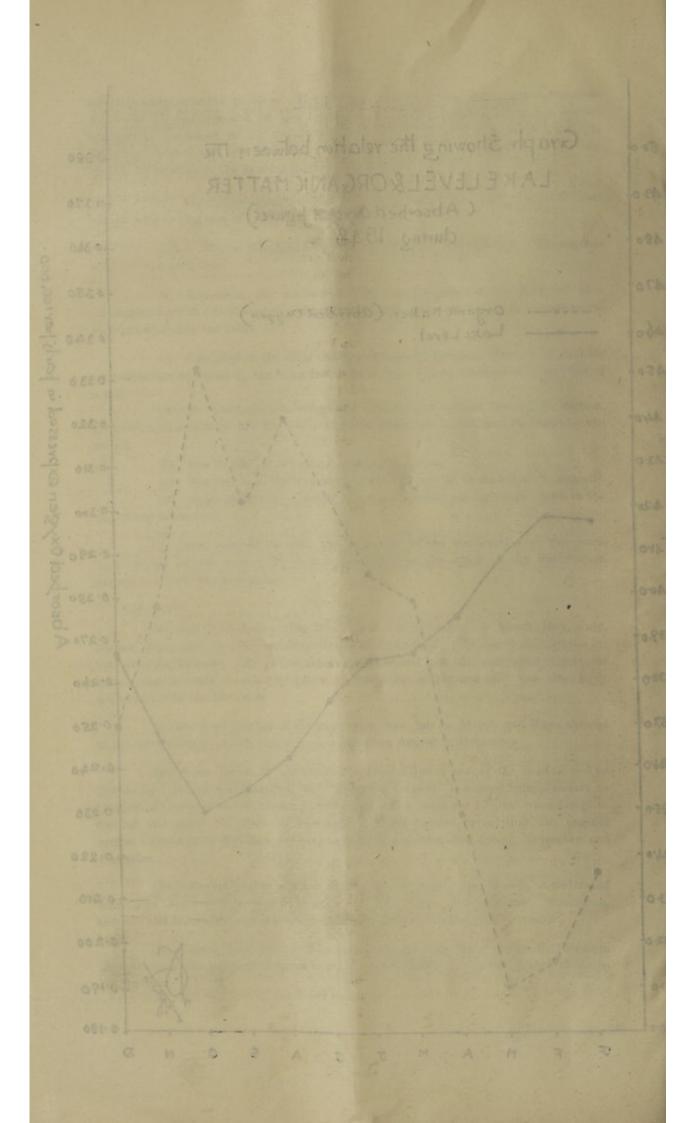
The bacterial quality of the lake water was fair in March and May, showed slight deterioration in July and was fair again from August to December.

Raw water (prior to chlorination) at the Kilpauk end of the conduit:—The figures for "Albuminoid Nitrogen" and "Absorbed Oxygen" increased from January to October and reached the maximum of 0.084 and 0.333 parts per 100,000 respectively in October and again fell down in December. These figures reveal that the organic matter content increased from January to October and decreased during November and December.

The bacterial quality was fair in January, February and March, deteriorated slightly in April and became fair again in May, June, July, August, September, October and November and reached the highest standard of purity in December.

Chlorinated raw-water:—Chlorination of the raw water prior to filtration brought about marked improvement in the bacterial quality of the raw water throughout the year.





Chlorinated filtered water:—The chlorinated raw water was filtered through a thin layer of about 6" of fine sand in the 17 sand filters. During the year the daily average quantity of water filtered was 23.09 million gallons. The filters worked with on fixed rate of filtration with the result that all gross impurities were removed from the raw water while the organic matter in colloidal condition easily passed through the filtering medium. The filtrate however was effectively chlorinated and the yearly average of first class samples (L.F.-60 c c.) came up to 95%.

Chemically the figures for "Ammoniacal Nitrogen" varied from a minimum of 0.002 p.p. 100,000 in January to a maximum of 0.024 p.p. 100,000 in September. The figures for "Albuminoid Nitrogen" varied from a minimum of 0.032 p.p. 100,000 in February to a maximum of 0.078 p.p. 100,000 in September. The figures for "Absorbed Oxygen" varied from a minimum of 0.147 p.p. 100,000 in February to a maximum of 0.288 p.p. 100,000 in August. During the year the dose of chlorine applied to the fi tered water varied from 1.38 p.p.m. to 2.13 p.p.m.

Test tap at K. P. S.:—Samples of water drawn from the test tap at K.P.S. were examined daily since they represented the water pumped into the mains for daily consumption. The chemical quality of these samples was almost the same as that of the chlorinated filtered water samples. But on the bacteriological side the yearly average of first class samples (L.F.—60 c.c.) came up to only 64% against 95% for chlorinated filtered water.

The average percentage of reduction in the organic matter content as compared with that of the raw water was 22% during the year.

Distribution system of the city:—On the bacteriological side there was fall in the number of first class samples due to the deterioration of water in the pipe lines. Chemically, the samples collected from the distribution system taps showed a reduction in the oxidisable organic matter content and an increase in the figures for "Ammoniacal Nitrogen" and "Albuminoid Nitrogen" as compared with those for the test tap samples. Smell was in evidence in the distribution system in July, August, September and October but it subsided during November and December.

Water supply in the extended areas:—In the extended areas comprising Saidapet and Sembiam, the sources of water supply are infiltration gallery wells. The water supplied from the infiltration gallery well in Saidapet needed only bacterial purification. The water was chlorinated with the chlorine available in the bleaching powder solution as it was pumped in to the over-head tank. The water supplied from the infiltration gallery well in Sembiam required addition of lime and bleaching powder after it had been pumped into the over-head reservoir. In both the Saidapet and Sembiam areas, the water-supply was restricted to limited areas, owing to the limited capacity of the sources of supply. Outside there areas, such as Aminjikarai and Adyar, people had to draw water from wells in their houses and bore well pumps installed by the Corporation.

Raw water of Saidapet:—The raw water was sparkling and crystal clear throughout the year. On the chemical side the quality of the water was good in February and May and deteriorated in September and December. Nitrates were invariably present in almost all the samples examined. The bacterial quality was good during February, deteriorated during May, became fair during September and reached the highest standard of purity in December.

Distribution of Saidapet water supply:—Chemically, the samples collected from the distribution system were of almost the same quality as that of the raw water H—10

samples. The bacterial quality was poor during February, fair during May and September and good during December.

Raw water of Sembiam:—The water was coloured and hazy due to the presence of iron. On the chemical side, the water was of good quality during January and June but fell off slightly in quality during November. The bacterial quality was uniformly fair throughout the year.

Distribution system of Sembiam water supply:—Chemically the samples collected from the distribution system taps were of almost the same quality as the raw water samples. The bacterial quality of the samples was fair in January and good in June and November.

V. KRIPAKARAN, B.Sc.

Ag. Water Analyst

REPORT OF THE PUBLIC ANALYST FOR THE CITY OF MADRAS FOR 1948

During the year 1948, the number of samples analysed under the Madras Prevention of Adulteration Act, 1918, was 4,035 as against 3,229 analysed in 1947. The number of samples analysed in 1948 is the highest number analysed in a year since the opening of the laboratory in 1933 and it is more than four times the number of samples analysed in 1934 which is the first complete year of working of the Public Analyst's Laboratory. Of the 4,035 samples analysed in 1948, 2,751 samples were genuine and the remaining 1,284 samples were found to be adulterated. The percentage of adulterated samples for the year under report is 31.8 against 40.3 in 1947.

The samples consisted of milk, butter ghee, gingelly oil, groundnut oil, cocoanut oil, coffee powder, tea, ghee substitutes and other articles. A statement of the samples analysed in 1948 and in the five previous years is given in a tabular form in statement No. 1. A graph showing the number of samples analysed and the percentage of adulteration each year from 1931 is also appended to the report.

50.8 per cent of the milk samples were adulterated in 1948 against 64.5 in 1947. Though there was some reduction in adulteration in the case of milk samples during the year under report as compared with 1947, the adulteration of milk which is a vital article of food still continued to be high. As pointed out in my previous reports, the imposition of sufficiently deterrent fines only will solve the problem of the effective prevention of milk adulteration. Since the adulterant, namely water, costs nothing, the profit derived by its addition to milk selling at a very high price will be tempting indeed. So, unless much heavier fines are imposed and the vendors made to realise that adulteration will no longer be worth-while, much improvement in the position cannot be expected. The percentage of adulteration of butter in 1948 continued to be the same as in 1947, namely, 188. There was an increase of adulteration in the case of ghee, the figures for 1948 and 1947 being 10:9 and 5:2 per cent respectively. A slight increase of adulteration was noticeable in the case of gingelly oil during 1948 as compared with 1947, the percentages of a dulteration for the 2 years being 11.6 and 8.3 respectively. As regards cocoanut oil, it may be mentioned that out of the 117 samples analysed during the year under report, not a single sample was found to be adulterated. It has been reported that in the mofussil centres, cocoanut oil is adulterated with white oil, which is a mineral oil and may be described as a kind of thin liquid paraffin. As far as the city of Madras is concerned none of the cocoanut oil samples analysed in 1948 contained white oil, nor was white oil found to pe present in any sample of gingelly oil or groundnut oil analysed in 1948. The percentage of adulteration of coffee powder in 1948 was 13.9 against 4.4 in 1947. The increase in the adulteration of coffee was evidently due to the high price of coffee that prevailed throughout the year. Due to this increase of adulteration, the number of samples of coffee powder had to be increased considerably and it may be added that the adulteration of coffee powder has since almost stopped. The market tea which has not been found to be adulterated for the past several years continued to be genuine during 1948 also.

The details regarding the various articles of food analysed during the year under report are given below.

Milk:—2,054 samples of milk were analysed. Of these, 915 samples were cow's milk; 733 were buffalo's milk; 262 were described as mixtures of cow's milk and buffalo's milk and 144 were described as milk without the qualification, "cow's" or "buffalo's".

Of the 915 samples of cow's milk, 463 samples were found to be adulterated.
460 of these samples contained added water ranging from 2 per cent to 81 per cent,
2 samples were deficient in fat, the deficiency being 33 per cent and 57 per cent
respectively and one sample contained added water besides being deficient in fat.

Of the 733 samples of buffalo's milk, 389 were adulterated. In 388 of these samples, added water was present to the extent of 3 per cent to 80 per cent. One sample contained added water and was also deficient in fat.

Among the 262 samples of mixture of cow's milk and buffalo's milk, 146 samples contained added water ranging from 2 per cent to 74 per cent and 2 samples contained added water and were also deficient in fat. Of the 144 samples of milk, described as milk without the qualification, "cow's" or "buffalo's", 44 contained added water ranging from 2 per cent to 68 per cent.

Butter:—356 samples were analysed, of which 67 were adulterated. 66 of the adulterated samples contained water ranging from 22·1 per cent to 73·4 per cent, the prescribed maximum limit for water being 20 per cent. One sample contained 27 per cent of fat other than milk-fat.

Ghee: -607 samples were analysed and of these, 66 were found to be adulterated with fat other than milk-fat, the commonest adulterant being hydrogenated groundnut oil. The extent of adulteration varied from 15 per cent to 100 per cent.

Gingelly oil:—450 samples were analysed, of which 52 were found to be adulterated with groundnut oil. The extent of adulteration ranged from 10 per cent to wholesale substitution.

Groundnut oil:-67 samples were analysed, of which 5 were reported as adulterated. 3 of these samples consisted of 100 per cent gingelly oil and the other 2 contained 60 per cent and 75 per cent gingelly oil respectively.

Cocoanut oil:-117 samples were analysed and all of them were found to be genuine.

Coffee powder:—266 samples were analysed, of which 37 were found to be adulterated. Among the adulterated samples 17 samples contained 25 per cent to 90 per cent spent (exhausted) coffee, 3 samples contained 20 per cent to 75 per cent Bengalgram, 8 contained 35 per cent to 90 per cent peas, 2 samples contained both Bengalgram and peas, 2 contained spent coffee and peas, one sample contained 45 per cent spent coffee and 30 per cent of Nattaichuri seed (Spermacoce hispida) and 4 samples contained preparation of an unidentified seed to the extent of 30 per cent to 70 per cent.

Tea: -31 samples were analysed and all them were found to be genuine.

Ghee substitutes:—17 samples were analysed. Of these, 9 samples consisted of 100 per cent of hardened vegetable oil. The remaining 8 samples were reported as adulterated as they contained ghee ranging from 4 per cent to 29 per cent admixed with hardened vegetable oil in contravention of Rule 28 of the Madras Prevention of Adulteration Rules, 1932.

Other articles:—These comprised 42 samples of wheat flour, 9 samples of Bengal-gram flour, 18 samples of turmeric and one sample of chicory. All the samples of wheat flour and Bengal-gram flour were genuine. One sample which was described as chicory did not contain any chicory, but contained instead 30 per cent coffee and 70 per cent spent coffee. As pointed out in my previous report, turmeric is often coated with the yellow pigment, lead chromate. Lead being a cumulative poision, the need for putting down this practice cannot be over emphasised. Of the 18 samples of turmeric analysed, 4 samples contained lead in excess of the prescribed maximum limit of 5 parts per million and were reported as adulterated. The amount of lead in these samples varied from 45 parts to 65 parts per million.

Besides the above formal samples taken under the Madras Prevention of Adulteration Act, 499 miscellaneous samples were examined in the laboratory during the year under report. Of these, 332 samples were samples of milk taken informally from the Madras Co-operative Milk Supply Union, Ltd., with a view to having a regular check on the milk sent out by the Union. In view of the fact that the bulk of the milk received by the Union from the feeder societies located in the villages near the city consist of mixture of cow's milk and buffalo's milk, the Union was advised not to accept any milk which gave solids-not-fat below 9.0. The main purpose of taking the informal samples was to check up as to whether the Union was enforcing the standard properly. These samples were in addition to the formal samples taken by the Food Inspectors from the distribution centres of the Union. 35 samples were analysed for private parties on payment of the prescribed fees.

A statement of the miscellaneous samples mentioned above is given below :-

Nature of sample

Report

. 332 samples of the milk from the Madras Co-operative Milk Supply Union

40 samples of milk powder suspected to be unfit for consumption sent by the Corporation schools

27 samples of canned and other food from the Supply Sub-Depot, R.I.A.S.C., Madras, etc.

1 sample of butter from Health Depart-

6 samples of ghee from Health Department 36 samples were reported as below standard

39 were reported as unfit for use

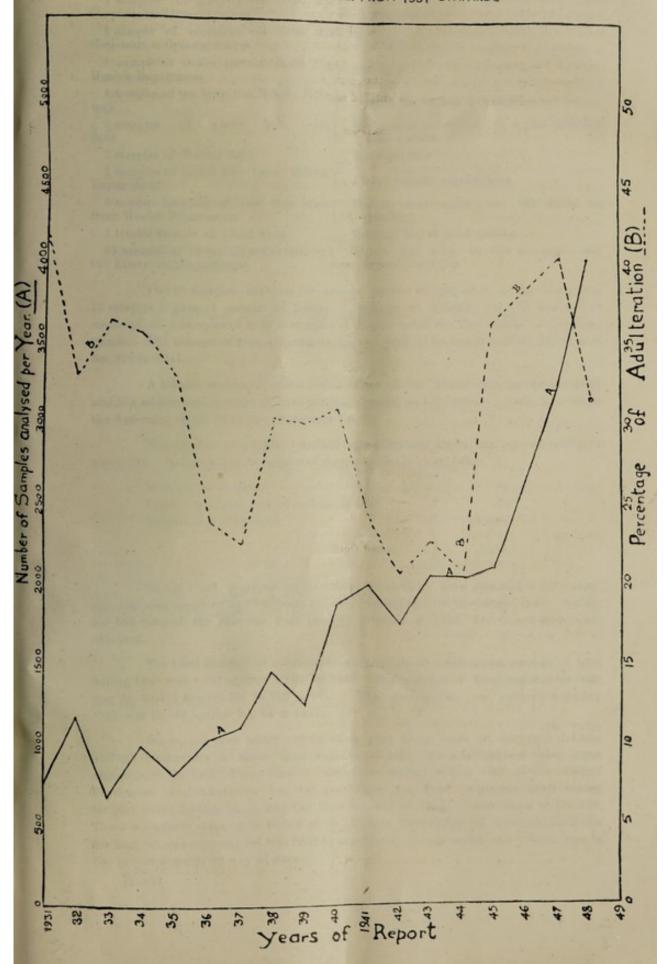
22 fit and 5 unfit for sale to the public

Genuine

2 were genuine and 4 adulterated

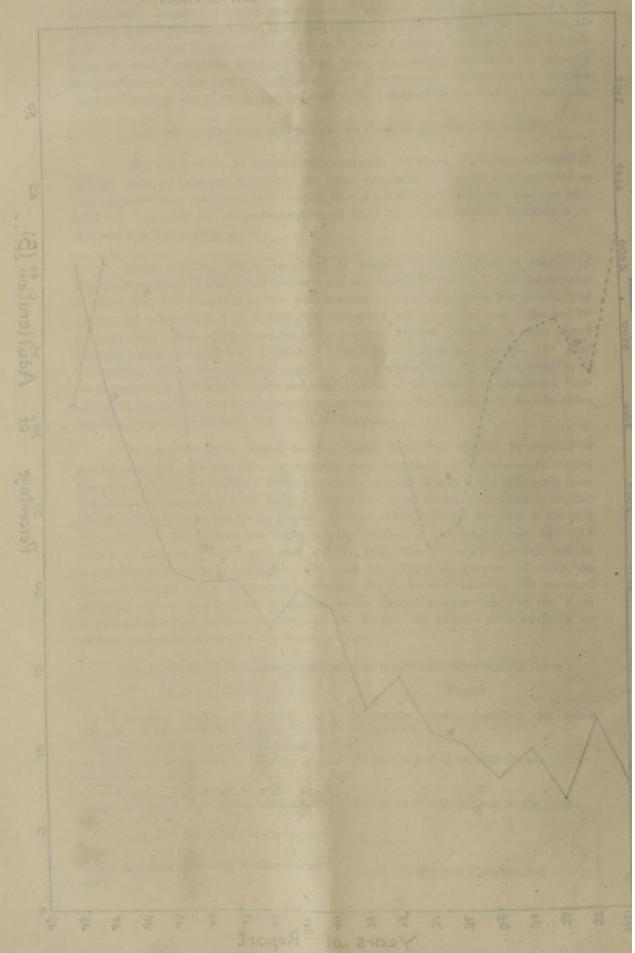
MADRAS CITY

GRAPH SHOWING THE NUMBER OF SAMPLES ANALYSED AND THE PERCENTAGE
OF ADULTERATION EACH YEAR FROM 1931 ONWARDS



MADRAS CITY

GRAPH SHOWING THE NUMBER OF SAMPLES AVALYSED AND THE PERCENTAGE



mood event Nature of Sample broser a sady manning or av Report house evertell
3 samples of gingelly oil from the All genuine Land and All genuine
I sample of cocoanut oil from the Genuine Genuine General Stores
Health Department and an analysis of behind the manufacture of the state of the sta
4 samples of tea from the M.S.M. Rail-
2 samples of wheat and mida Both genuine wheat flour but infested flour
2 samples of Tooyar dhal
2 samples of boiled rice from Health Fit for human consumption
5 tender samples of raw rice bran Report was made on the order of from Health Department quality in add an additional to sample to sample to sample to the order of the orde
1 tender sample of wheat bran Genuine and of good quality
37 samples of Transformer Oil sent by Report was made on the inorganic and

The 35 samples analysed for private parties on payment of fees comprised 12 samples of ghee, 1 sample of butter, 2 samples of gingelly oil. 12 samples of cocoanut oil, 2 samples of milk, 5 samples of Burma beans and one sample of Semolina (raya). The amount of fees collected during the year under report was Rs. 235 against Rs. 275 in 1947.

organic acidities

A tabular statement of the action taken on the adulterated samples of 1948 and the adulterated samples of 1947 pending disposal on 1st January, 1948, is given in the Appendix (Food Analysis—Statement No. 2).

The number of samples reported as adulterated during the year under reporte was 1.284. Action taken in respect of these samples is given below:—

Warning of vendors		Necessary 1	20 redand at aleaser
Seizure and forfeiture of articl			17
Prosecution of vendors		Possemicie.	
	Total		284 .zoq-Ilams
All members of erew and par		oft for East	13 vesselv 1

Of the 1,247 prosecutions launched, convictions were obtained in 853 cases, one case was acquitted and 393 were pending disposal on 31st December, 1948. Among the 399 cases of the previous year pending disposal in 1948, 304 convictions were obtained.

The total number of convictions for the sale of adulterated articles of food during 1948 was 1,157 against 1,152 in 1947. The amount of fines imposed in 1948 was Rs. 50,312 against Rs. 50,723 in 1947. The average fine per conviction during 1948 was Rs. 43 against Rs. 44 in 1947.

During the year under report, there were three cases of warranty defence and the warrantors in these cases were convicted. The total fines in these cases amounted to Rs. 130. There were 5 convictions under Section 14(3) of the Madras Prevention of Adulteration Act for preventing the Food Inspectors from taking samples under Section 14(1) and the fines imposed in these 5 cases came to Rs. 170. There were three cases under Rule 6 of the Madras Prevention of Adulteration Rules for keeping and exposing for sale food in imperfectly tinned vessels and a total sum of Rs. 22 was imposed by way of fines.

denings

the Electrical Department

Before concluding, I have to point out that a record number of samples have been analysed during the year under report. At the time of writing this report, an additional Assistant has been appointed and I have now three Assistants working under me. I therefore expect the number of samples analysed in 1949 to exceed 5,000 which, on an estimated population of about 10 lakhs, will come to over 500 samples per year per 1,00,000 of population. At this rate of sampling, it should be possible to control adulteration effectively, provided the punishments inflicted on offenders convicted under the Act are sufficiently deterrent. The average fine of Rs. 43 per conviction during 1948 does not show that the fines have been deterrent. While the prices of articles of food had been soaring and the illegitimate profits derived from adulteration would have been considerable, the avarage fine had fallen from Rs. 59 in 1944 to Rs. 43 in 1948. Unless a more serious view of offences under the Food Adulteration Act is taken and the maximum penalties provided under the Act are imposed the good effect of increased sampling will be annulled and much progress cannot be made in effectively suppressing the evil practice of adulteration in the city. Genuine and of good quality

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REPORT OF THE PORT HEALTH OFFICER, MADRAS

Out of 892 vessels arriving at this port with 60,648 crew and 47,001 passengers, only two vessels were infected and two cases of chickenpox were landed from them. Necessary sanitary and preventive measures were taken.

Out of 893 vessels leaving this port only 334 vessels leaving for foreign ports (including Andaman) with 26,006 crew and 28,389 passengers were inspected. 3 cases of chickenpox and 6 contacts only were prevented from sailing.

Six cases of chickenpox, 2 cases of measles and one case of cholera occurred on vessels in harbour. Necessary measures were taken.

Only 115 passengers and 48 crew were found to be unprotected against small-pox.

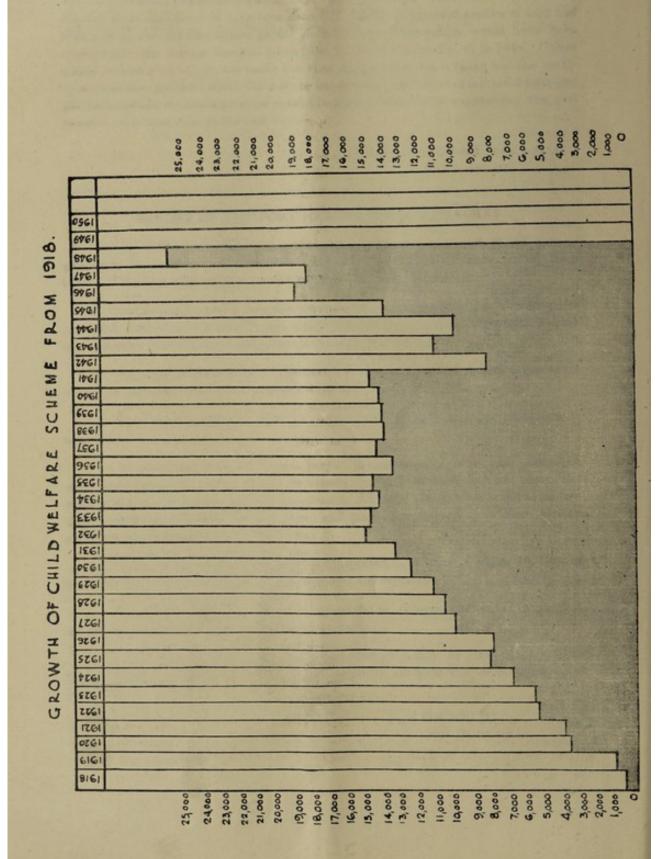
13 vessels left for East African ports. All members of crew and passengers were protected against yellow fever. 66 vessels arrived from East African ports, but none within the incubation period of the disease. All these vessels were found to be free from mosquitoes. All members of crew and passengers embarking at East African ports were protected against Yellow Fever.

Lascar provisions of 92 vessels were inspected. 16 tins of ghee, 16 tins of mustard oil and 48 lbs of butter were condemned and replaced.

The Port Health Officer, Madras, continued to enforce measures to prevent egress and ingress of rats into vessels lying in port.

Sanitation of the port area was looked after efficiently by the Madras Port Trust. Water supply of the port area was frequently analysed and defects corrected immediately.

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REPORT ON THE WORKING OF THE CHILD WELFARE SCHEME CORPORATION OF MADRAS FOR 1948

The Child Welfare Scheme maintained its steady progress and growth during the year under report. The notable points that require special mention during the year are (1) remarkable increase in the attendance of pre-natal and labour cases, (2) large number of admissions in the maternity wards attached to the centres, necessitating the increase of beds and (3) opening of a maternity ward in the child welfare centre at Washermanpet and of two small centres, one at Ayanavaram and the other at Kodambakkam. The statements in the Appendix will show the good work done by the Scheme and its popularity.

Centres: - At the commencement of the year under report, there were 25 child welfare centres including the Maternity Home at Choolai and 14 maternity wards with 84 beds. As already stated in the previous report, two small centres were opened on 10th March, 1948, in the Corporation dispensaries at Teynampet and Thyagarays Nagar. The provision of funds made for the opening of three centres at Moolakothalam, Ayanavaram and Kodambakkam could not be ntilised for opening child welfare centres in the respective localities owing to non-availability of suitable buildings. But, a small centre was opened on 28th October, 1948, at Ayanavaram without much extra cost and another on 5th January, 1949, at Kodambakkam. A maternity ward was also opened on 15th August, 1948, at the Washermanpet child welfare centre. The Madras Provincial Welfare Fund donated a sum of Rs. 10,000 for this purpose and the balance amount required was met from the funds of the Corporation. At present, there are 25 child welfare centres. 4 sub-centres, 1 Maternity Home and 15 maternity wards with 127 beds. The day nursery or creche opened on 14-11-1947 in Bunder Rama Naidu Garden, Broadway, proved very helpful to women workers and 13,684 children were given shelter and looked after in this creche during 1948.

Staff:—The Lady Superintendent continued to be in charge of the Scheme except for a period of 45 days from 3-6-1948 to 17-7-1948 when she was granted leave. Capt. Miss C. N. Rukmini, M. B. B. S., was appointed to act as Lady Superintendent, Child Welfare Scheme, during this period. There were 26 lady doctors under the Scheme, of whom one was a relieving lady doctor, 27 qualified health visitors, 7 general trained nurses, 219 midwives and 22 compounders.

Pre-natal clinics:—As a routine, pre-natal clinics were held thrice a week in each centre. Expectant mothers were advised to attend these clinics by the health visitors and midwives during their home visits. 37,918 expectant mothers attended the clinics and were given medical advice and treatment as against 25,524 cases in 1947. The health visitors registered 41,501 expectant mothers in the houses of the patients. The patients were advised by the lady doctors and were followed up by the health visitors till their confinement. A large number of mothers had the benefit of the instructions, advice and treatment given at these centres.

Maternity service:—The total number of births in the city for the year was 50,222. 26,051 labour cases came under the observation and care of the Scheme, of which 21,755 were non-Muslims and 4,296 were Muslims. 8,262 births were conducted in the Corporation maternity wards during the year. The midwives paid 2,70,638 visits, the health visitors 2,31,831 visits and the lady doctors 28,378 visits in the home of the patients. Among births there were 209 twins.

A sum of Rs. 11,710-0-0 was realised as fees for maternity services rendered to persons whose income ranged from Rs. 81 to Rs. 200 p. m. against Rs. 10,474 for 1947. This indicates the increased popularity of the Scheme among the middle class people also.

Maternal mortality:—Out of 26,051 cases of labour that came under the care of the Scheme, 50 cases of maternal mortality were recorded as noted below which works out to 1.91 per mille against 1.95 in 1947.

Child Welfare		maintaine	re Bohem		
Hospital	that require	ble points	ston 44		
Private doctor	dance of par	n the atten	inexcase i		
Vaidyans		w whitewestern			
Barber women	miernity ward	ning of a m	ago (E) b	beds an	
			0 50		

Infant mortality:—18,412 babies born in the year, 1947, were kept under observation during their first year of life. There were 499 still-births. The mortality among live-births was 1,428. 709 babies left the city or were otherwise not traceable. 15,776 infants were alive after completion of their first year of life. The infant mortality rate was 83.0 per mille against 81.7 per mille in 1947. The slight increase in the percentage of infant mortality rates during the year was evidently due to the stopping of the Milk Supply Scheme from 1-1-1947. The fact that the maternal and infant mortality rates fell considerably during the years 1946 and 1947 shows that the Milk Supply Scheme was highly beneficial to expectant mothers, nursing mothers and infants. Babies born in 1947 and kept under observation during 1948 did not enjoy this benefit to such an extent as those babies born in 1946 enjoyed. This factor, added to the poor economic conditions of the parents of the children has naturally contributed to the slight increase in mortality rates among infants during the year under report.

Out-patient clinics:—Out patient clinics were held in all the centres by the lady doctors. Infants, pre-school children and expectant and nursing mothers were examined, advised and treated for minor ailments. 48,921 infants, 28,929 toddlers, 67,722 nursing mothers and 37,918 expectant mothers represent the new cases that were treated and advised. The total number of new cases that attended the clinics was 1,83,490 and the number of old cases was 4,39,462 making a total of 6,22,952 cases.

Ambulance:—Two ambulance cars were maintained for removing emergent cases of labour to the hospitals in the city. 1.616 cases were removed to the hospitals during the year.

Milk supply:—The Corporation continued to supply milk free of cost to priority consumers. As stated in the previous report, milk was supplied at the rate of 6 measures a day per centre—3 measures in the morning and 3 measures in the evening from 1-4-1948. But, this supply had to be cut down to 3 measures in the mornings from 1-10-1948 owing to paucity of funds. This supply has since been increased to 4 measures—2 measures in the morning and 2 measures in the evening from 1-4-1949. 2,27,820 infants, 90,723 expectant mothers, 8,057 nursing mothers and 13 toddlers were benefited by the milk supply during the year.

Although every effort is being made to secure adequate buildings for locating maternity homes much headway could not be made in this direction owing to non-availability of suitable buildings in the city. When suitable buildings are available action will be taken in the matter. The Maternity Home at Choolai and the child welfare centres at Saidapet and George Town have been provided with high pressure steam sterilizers at a cost of Rs. 6,000. This amenity could not be provided in the other centres owing to financial stringency. When the financial position of the Corporation improves, action will be taken to provide the remaining maternity wards with steam sterilizers as suggested by Government in their review on the Administration Report, 1946-1947.

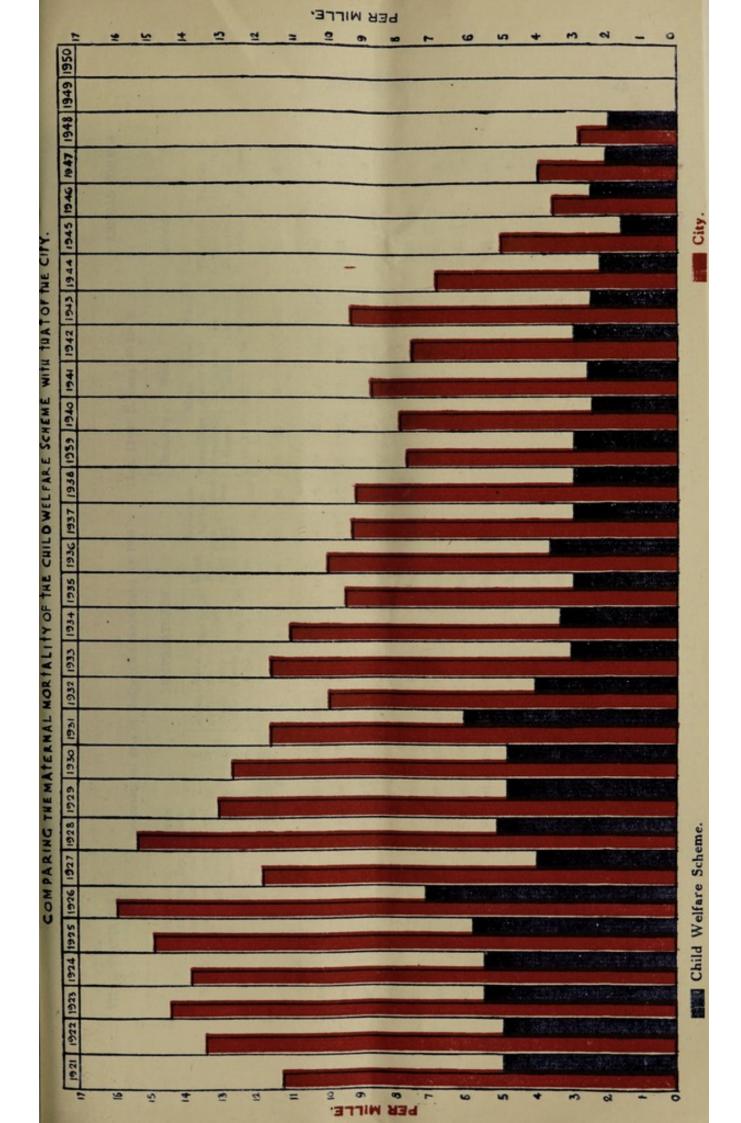
Dr. H. V. KAMALAMMAL.

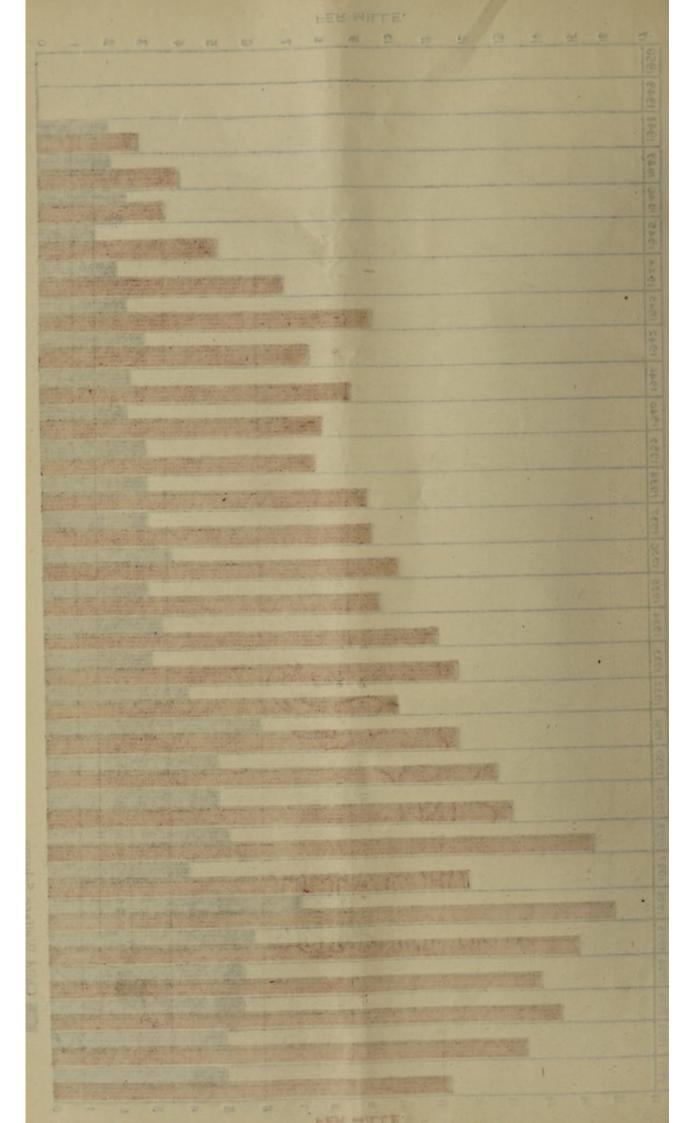
Lady Superintendent, Child Welfare Scheme.

Child Welfare Scheme.

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Morth	standard gravity mean set level Hours 08:00 17:00	dard gravity and mean set level Hours 8:00 17:00	Mean Max	Mean Min Yo	Mean daily range cols 4-5	Mean daily temp g cols 4+5	Dew point Hours 08-00 17 00	The second second	Mean Max solar radia- tion	483	Difference between w Mean int & Mean int of temp.	Percentage of humidity Hours 08.00 17.00		Mean direc- tion of wind in degrees Hours	100	Total fall for the month n inches	Heaviest runfall in 24 hours in inches	Number of rainy days 0.10"
100	61	8	+	2	9	7	œ	6	10	11	21	13	1	15	16 00	17.0	81	61
January	1014-9	6.1101	83.2	1.69	13.8	9.92	20	69	128.0	9.9	2.6	68	69	9	99	2.16	0.70	4
February	1014.2	1010-8	88.1	711.3	8.91	7-87	11	70	134.1	1.8	1-6	98	65	270	118	0.03	0.03	0
March	1012.4	1009.0	91.3	74.2	17.1	82.7	72	11	136-2	10-7	11.7	62	61	256	113	0.00	10 mm	0
April	0.0101	1005.7	95.0	78.3	16-7	9-98	75	74	139.8	9.11	12.6	76	63	197	138	0.44	0.44	1 00
May	1005.7	6-1001	102.0	83-7	18.3	92.3	74	75	142:9	18.8	17.8	62	29	201 1	136	0.32	0.55	61
June	1004.7	1000.8	102.1	83.4	18.1	92-7	11	12	143.6	21.7	21.7	86	49	252 1	150	0.71	0.16	60
July	1003.0	1001-4	96.4	8.62	16.6	88.1	72	73	138-2	1.91	15.1	89	09	258 1	138	3.32	11.0	7
August	1005-7	1001-9	94.5	78.7	15.8	9.98	72	72	135.7	14.6	9.41	17	57	251	155	3.49	89.0	10
September	9.2001	1003-7	1.76	9.77	16.5	82.8	73	72	135.0	12.8	13.8	7.2	61	252	126	4.14	1.01	6
October	1011-5	8-2001	89.7	15.8	13.9	82.7	75	73	134.6	7.7	2.6	85	20	267	93	9.21	3.62	8
November	1012-7	6.6001	86.4	74.8	9.11	9.08	7.5	73	132.5	9.9	7.6	88	75	31	92	8.54	3.15	12
December	1014.5	9-1101	82.5	1.69	12.8	76.1	89	67	127.8	8.1	9.1	28	99	353	31	1.70	0.20	9
Total	1009.9	1006:4	92.1	1.92	15.7	84.5	72	72	135.7	12.3	12.2	11	63	265 1	115	34.09		19

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STATEMENT No. I

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	Still Birth	######################################
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r of Deaths	IntoT.	1126 1126 1127 1128 128 128 128 128 128 128 128 128 12
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Name of Division	Arenue	S = Yaanade9	gas dorek	a = qudy	NESS Zen	oung	Lang	asuguy.	September	TodoJoO	TedmevoX	December	-0000000
New Washermannel	69	1 3	99	76	28	102	106	183	107	106	26	148	35,57
Royapuram	41	170	10.	19	99	101	69	191	149 00	257	101	908	
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Kornkkupet	78	27	000	100	98	126	110	143	91 40	7.5	101	79	
Vyasarpadi Basin Bridge		420	36	58	200	82.	25	101	101	99	68	98	
-	67	11	190	88	76	98	1113	112	93	811	111	185	
9 Seven Wells	67	39	55	98	64	18	82	88	98	80	833	1.00	
	***	48	889	57.	99	69	80	81	96	110	86	91	
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	43	49	90	200	2.5	100	96	86	100	35	129	106	
200		45	355	47	48	48	81	57	06	65	98	68	
93 Purasawalkam	63	48	88	69	7.0	1.4	7.0	109	115	164 00	162	101	
110		69	2.3	800	46	200	100	000	58	80	82	71.	
9	191	69	69	118	78	109	121	105	181	116	91	126	
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Napler Park		110	8 9	96	110	86	124	93	121	108	101	1117	
144		54	7.5	7.4	96	107	110	133	108	181	192	112	
32 Egmore	19	44	169	76,	880	119	116	117	135	1111	184	188	
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		888	51	666	92	607	100	136	200	158	108	155	
- 60	98	181	11	98	780	380	131	48	141	68	63	101	
Zam Bazar manber	346	90	50	555	66	50	142	74.0	147 40	106	76	100	
	7.9	250	87	113	131	181	148	156	156	153	150	503	
44 Mylapore (North)	19	10.5	19	Ol/s	88	115	130	126		98	78 %	63	
_	9.9	1 0	44	200	100	10.2	108	866		102	106	120	
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	60 years upware	Malos	885882188844888822528888882488484888834848888888888	2225235	2,577
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STA	50 years under year	Malos	87788 88888888 4846 488 878 88 848 888 888 888 888 888 888	18883a	1,871
ı	years and nder 50 years	Females	2822882928180668282821488282268332128212221222222	TRABARA TO UTV	808
	40 years under	Males	######################################	31 9 9 11 11 11 11 11 11 11 11 11 11 11 1	1,872
1	years and under 40 years	Pennales	80588888888888888888888888888888888888	992979	1,074
	30 years under	asolald	521258888888888888888888888888888888888	Minima Mi	1,226
ı	oars and ider 30 years	Pemales	######################################	244825	1,327
	20 years under year	Males	第4488年28年8月14 年14月8日8日8日8日8日8日8日8日111111111111111111111	252893	1,178
1948	r 20	Pemales	**************************************	Langs r- on to on to	483
during	15 years an under 20 years	Males	845004040444P0PP00440044009PP050000000000	Tuberale Tuberale	301
iods	years under years	Se males	***************************************	0406-40	287
age periods	Ten and 15 y	Males	enattennennennen en er en dur en		888
0	years inder Fears	Permaies	80 488 6 40 2 - 3 6 4 0 4 5 8 2 0 5 F 0 1 8 6 0 0 0 1 5 F 1 2 0 2 0 2 2 2 2 0 2 5 F	713000	653
ecording	Pivo years and under Ton years	Males	ataga ataga ata a a a a a a a a a a a a	MAINTIN OR OR OR	600
d acc	ar and Five	Pemales	52888888888888888888888888888888888888	252233	3,250
gister	One year and under Fivo years	Males	8222235523333225353335358535331535325252533 8232235535333325353335353535353535353535	22.20.418	8,031
the re	r one	Pemales		45.55.03	3,640
Showing deaths	Under one	Males	20124888888888888888888888888841585248585818	922 89	4,193
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00	2	8,006 4	New Washermanpet Royapuram Singaa Garden Singaa Garden Singaa Garden Sanjewiroyanpet Korakupad Basin Bridge Ammem Koll Muthialpot Harbour Kachalooswarer Koil Kachalooswarer Koil Rothalooswarer Kothalooswarer Kachalooswarer Kothalooswarer Frivelyan Basin Choolai Pulmanhope Perambur Barracks Semblam Kilpauk Pulmanhope Perambur Barracks Semblam Kilpauk Pulmanhope Perambur Barracks Semblam Kosapet Perawawalkam Kilpauk Pulmanhope Perambur Barracks Semblaman Kilpauk Rosapet Kosapet Perimant Frivasawalkam Konalooswaranpet Romore Thousand Lights Napiger Rark Chintadripet Kodambalkam Theagaraya Nagar (North) Royapetah Pudupakkam Theagaraya Nagar Chopauk Triplicano Pudupakkam Theagaraya Nagar Chopauk Triplicano Pudupakhore (North) Mylapore (North)	My lagore (South) Theagaraya Nagar (South) Saidapet Guindy Adyar	
ISTIC	glass pales	2850	Singert Garden Singert Garden Singert Garden Singert Garden Sanjeert Garden Sanjeert Garden Vyasarpad y Bash Bridge Bash Bridge Seven Wells Ammen Keil Muthialput Harbour Kachalosewarer Kotnawal Bazaa Sewan yasin Choolai Pulianthope Perlamat Pulianthope Perlamat Furasawalkam Korapet Pulianthope Perlamat Furasawalkam Korapet Perlamat Furasawalkam Korapet Forlamat Furasawalkam Korapet Korapet Forlamat Ferramat Forlamat Forlam	Toynampet Theagaraya Saidapet Guindy Adyar	-
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APPENDIX

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Month		Total number of Births	Birth Rate	Total number of Deaths	Death Rate	Total number of Infantile Deaths	Infantile Death Bate	Total number of Births	Birth Rate	Total number of Deaths	Death Rate	Total number of Infantile Deaths	Infantile Death Rate
January .	:	2,435	29-7	2,034	8.4.8	527	216.4	2,108	26.1	2,532	31.4	699	317-4
February	:	2,403	29.3	1,983	24.2	472	196.4	2,889	32.8	2,954	36.6	754	261.0
March .	:	2,701	32.9	2,221	27.1	204	186.6	2,981	37.0	2,741	33.6	620	208.6
April	:	3,449	42.1	2,146	26-2	541	156.9	3,045	37.7	2,423	30.0	616	202.3
May	:	3 808	46.5	2,876	35.1	199	8.60%	3,671	45.6	2,331	6.87	609	165.9
June	:	4,385	52.5	2,823	34.5	669	159.4	3,553	44.0	2,196	27.2	636	179.0
July	:	4,885	9.69	2,393	29.5	584	9.611	4,022	8.67	2,485	30.8	772	191.9
August	:	4,950	60.4	2,741	33.2	674	136-2	3,525	43.7	2,611	32.4	822	233.2
September	:	5,356	65.4	2,724	33.3	627	1.711	4,053	20.5	2,574	31.7	646	159.4
October	:	5,077	62.0	2,871	35.0	089	124.1	3,510	43.5	2,456	30.4	652	185.8
November	:	4,996	6.09	2,846	34.8	778	175.5	3,421	42.4	2,206	27.3	539	157.6
December	-	5,777	2.02	3,344	8.04	668	155.6	3,975	49.3	2,470	30.6	652	164.0
Total	Pod:	50,222	60.19	31.002	21.54	7 000	162.07	40.750	10.00	00000	0000		

STATEMENT No. VII

VITAL STATISTICS

Showing births, deaths, infantile deaths and rates for different classes in 1948 and 1947

0 0 0 0 0	Death number of Infantile Rate Infantils Rate Deaths 1 27.78	antile number of heate registered	dayor	-Motes!		-	
# F B B	1 135			- o	Death num Bate In	Total number of Infantile Deaths	Infantilo Death Rate
229		27.78 42	22.00	170.2	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 000	23.81
	28 39 70	92.86 462	40.8		:	0977	108.23
874.01,475gp	302	H1.12 2,065	40.4	1,397	25.00	313	151-57
3,315	282 189	77.24 4,126	33.4	3,237		902	218.61
25,973	4.5 6,709 108	55.27 34,054	30.8	25,107	:	1,721	197.36
treat labor admin	dinadal later dinadal dinadal dinadal	Total namble	Hate a	LatoT boundary	off the	STORY IN	Italia Dayld
51.09 31,002 3	7,833	55-97 40,753	42.08	29,979	30.96	7,987	195-99
The state of the s	3,315	3,315 782 25,973 6,709 31,002 31.54 7,833	3,315 782 177.24 25,973 6,709 155.27 	3,315 782 177.24 4,126 25,973 6,709 155.27 34,054 4 4 31,002 31.54 7,833 155.97 40,753	3,315 782 177.24 4,126 3,237 25,973 6,709 155.27 34,054 25,107 4 3 31,002 31.54 7,833 155.97 40,753 42.08 29,979	3,315 782 177.24 4,126 3,237 25,973 6,709 155.27 34,054 25,107 4 3 31,002 31.54 7,833 155.97 40,753 42.08 29,979 30.96	3,315 782 177.24 4,126 902 25,973 6,709 155.27 34,054 25,107 6,721 4 3 6,721 31,002 31.54 7,833 155.97 40,753 42.08 29,979 30.96 7,987

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STATEMENT No. VIII

	-		and .	The open	S.	pue	Birth	mets	8	sosne	Total	Total Infantile Deaths in 1948	Deaths			
Month	111	xod Ilams	Measles	airalald	Огрек теме	Бувептету Бізттроев	Premature Debility, e	Nervous By	Respirator:	All other o	Males	Lemsles	letoT	Lota	Total Infantile Doaths in 1947	ale
anuary open and		- S			14	619	171	45	170	69	289	238	527	133	699	
ebruary	- i	vi:	W		00	54	164	37	139	70	272	200	472	112	754	
arch	:	:	:	:	10	76	179		109	78	252	252	504		620	
pril	:	21	:	:	14	16	195	17	2.172	23	261	280	541	1000	919	
	-	:	:	1	25	148	216	28	5.£ 229	122	412	387	799	180.00	609	
ane and make and	:				27	66	204	40	. 201	128	374	325	669	236	636	2000
uly	:	:			12	72	161	19	149	66	303	281	584	3	772	
August	1	To the last	111111	:	9	99	258	53	152	146	388	286	674	-	822	20.00
September	1	7			18	41	226	64	142	136	338	289	627		646	
Detober	in the same	90410	garlio.	Jeath :	27	250	292	02	160	49	315	285	630		652	
November	:	-		-	23	57	320	67	269	141	467	410	877	1	629	
December	4	- 100		Merce	17	29707	307	19	220	229	492	407	889	72	652	E B I
Total	;	03	:	1	201	876	2,723	628	2,112	1,290	4,193	3,640	7,833		7,987	

VITAL STATISTICS

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STATEMENT No. IX

VITAL STATISTICS

Showing percentage of infantile deaths from principal causes in 1948

Total Infantile Deaths	Ratio	43 22-25	13 15-49	07 34.56	07.72		7,833 100-00
BARR	Deaths	1,743	5 1,213	οί	9 2,170		1000
All other	oitaH	12.21	6.35	19-61	21.39		16.47
	Deaths	218	ti ti	531	494		26.96 1,290
Respiratory Diseases	oiteH	3-84	9.31	37.24	42.58		
Resp	Deaths	19	113	1,008	924		2,112
Nervous	Ratio	2.29	5.77	11.23	98.6	Male	8.05
Ner	Desths	40	20	304	214	All of	628
Premature Birth, Debility, etc.	Ratio	79-70	71.90	15-59	1.84	ni sere	34.76
Premature Birth, Debility, et	Deaths	1,389	872	153	9 19		11.18 2,723 34.76
ry and	OiteH	1.20	5.19	13.19	20.02	Nutro	11.18
Dysentery and Diarrhoea	Deaths	21	83		435	Preside	876
Fevers	Gatio	0.46	1.40	3-14	4.10	Divisi	2.57
Per	Doaths	8	17	28	16		201
rris.	Batio	:	80.0	1	:		0.01
Malaria	Deaths		-	:			-
Measles	Batio			111	1 1	Money	-
Mea	Desths	-	1				-
xod	Batio	1	tone		60.0	ST H	0.03
Smallpox	Deaths	1	:	:	21		cu
The second	pro-perior	Under Seven Days	Seven Days and under one Month	One Month and under Six Months	Six Months and	Year	Total House

bowing intentite mortality by months in 1948

STATEMENT No. VIII

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Ratio

VITAL STATISTICS

Total Douths STATEMENT No. 30,366 705 942 27,277 27,381 29,979 142 2.83 16,48516.77 31,002 Deaths 65 88 14,95318:51 15,318 18-66 13,987,16-77 3.56 14,565 15.27 15,169 15-67 5.74 14,798 16:97 All other Ratio Deaths 3.90 Maternal Deaths 1786.83 155 5.07 2759-32 Ratio 149 183 159 Deaths 2960.34 276034 202 0-25 3960.41 343 0.35 Injuries 313,0'39 291031 Ratio Showing deaths from principal causes in 1948 and in the previous five years Deaths 8.43 36 Dysentory Tubercle Other and including Respira-Diarr. Tubercle tory hoea of Lungs Diseases 2900-357,166 8-73 7-21 405 0.425,878 6.16 7.03 401 0:45 6,743 7:77 Respira-Ratio 857 237 4100.49 6,009 502 0.526,803 Desths 398 0.49 7. 0.637 Ratio 621 Deaths and Diarr-hoea 4.36 4.26 3.16 3.60 3.87 3.97 17 Ratio 00 112 2,345 2.903,521 3.273,498 2,963 3.553,003 2.883,010 847 3.113,376 Deaths 2.963, 2.703, Other Ratio 862 2,687 2,746 2,721 657 Desths 0.152, 03 0.11 80.0 0.17 0.12 0.11 0.11 Typhoid Ratio Deuths 90 43 99 95 107 0.06 163 104 0.02 Malaria 80.0 90.0 0.07 0.04 10 Ratio 0 42 67 85 99 12 69 9 Deaths 200-0 0.001 0.005 0.005 Measles * Ratio 01 4 -: = Deaths 0.016 0.16 0.53 0.18 0.05 0.15 0.01 Small Ratio 12 0.07 192 69 13 20 0.12 104 0.02 128 Desths 0.49 100-01 005 0.51 Cholera Ratio 8 61 400 16 88 Desths 100.01 100.01 Plague Ratio Deaths previous five Mean of the 1948 Year 1945 1946 1943 1944

STATEMENT No. XI

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	other	808	Rate	-	20.0	29.42	17.63	-	= :	18:51	18.66	16-77	15-27	16.77
	All	causes	Doaths	1	284,9720 113,102	14,511	13,090	13,709	9,113	275 9782 14,958	178 6'83 15,318	13,887	149 3 26 14,065	1400-82 16 485
	rmal	ths	Bate	-	9	14	3611.91	285,8'69	1517-46	9-83	6.83	100 0.01	90 %	0.0
	Maternal	Deaths	Douths	1	782	2457	36	285	151	015	178	100	150	
	Injuries	L	Rate	9	210072	2540-33	23,030	289,0-80	2090-30	2760'30	3020202	0100000	395,0-41	9430-95
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12	Res.	1808	Rate	01:0	0 1	8.8		8.87	01.0	20 6	0 1	12 0	0.10	8
1 years	Juher	Diseases	Douths	0000	00000	7,166	0,016	6,523	2,045	1001	0011	0,000	6.808	621 0-63 7-997
s ter	ele (angs	OlaH	1.40			_		90.0		8 9			0.63
and during previous ten	Tuberele	P. of Lungs	Deaths	1 801	1000	1,500			1000	060	010	100	503	621
d So		700	Rate	8-10	0	4-96	4.00	16.00	8 %	3 9	00.0	91.0	8.97	3-17
duri	Dysentery	Diarrhoea	Donths	908	0.004	9 859	0 000	0,000	2 501	2 408	8,003	8.010	3,847	2,667 3-70 8,112 3-17
and	1 22		Rate	3.00	0.78	9.40	0-07	1.60	00-6	9-07	1 25.65	9-89	95-50	2-70
1948	Other	-	Deaths	2,183	9 108		9 900	1.841	9.845	0.687		9.746	2,862	2,657
ni see	pior		Hate	0.16	0.38	0.16	0.96	0-16	0.11	0.08	0.11	0.11	0.17	0-15
CAUSOS	Typhoid	Ī	Doubhs	119	187	135	906	198	06	99	95	107	168	148
principal	Malaria		Rate	0.02	90.0	0.01	7	0.03	0.08	0.10	0.00	9.02	90.0	0.0
pri pri	Ma		Deaths	28	65	66	8	6	159	22	46	45	300	109
and deaths from	Measles		Hate	0.01	D. S. S.	0	0.001		0	0.001	0.003	:	:	1
eath		+	Douths	070	0.35		1 96	- 24		16	60	93		10
p pu	Small-Pox	-	Hate				900.0	18 0:02	18 0.016	8 0-16	2 0-53	7 0.13	0 0.03	10-0 51
	Sm	+	Doaths	5 561	3 268	.81	100			128	192	1771	200	-
deaths	Cholera	-	Hate	900	0.003		:	- 3	0-40	0.03	0.07	0.001	0.003	0-21
ntile	5	-	Doaths	88	- 04	1	:	8	400	16	6	7	01	010
infa	Plague	1	oteH	. 1	:		:	O see	0.001	90	:	Ė	0.001	1
ths,		-	Deaths		73	70	-18	9	00	-	91	0	-	1 :
, de	Infantile aths unde	Jone	Infantile Death Rate	25.00	241.62	205.7	56-805	196.1	247-3	284-27	213-8	188-0	195-99	155-9
Showing births, deaths, infantile	Infantile deaths under	ono year	Desths	6,881	7,651	6,837	6,847	4,062 196.76	7,295 247-30	T,407	6,582 213-82	7,663 183-00	7,987	7,883 155-97
wing		2017	Still Births	1,331	1,402	1,403	1,237	840	1,071	1,062	1,107	1,505	1,408	1,549
Sho	20		Death Rate	35.0	88-93	88.08	35-44	19.55	87.59	96.19	82.71	28:71	96-08	31.54
	Deaths	sq	Number of Deat excluding etill births	26,282	29,808	26,125	27,710	18,019	30,366	39,705	27,277	27,381	29,979	81,002
			Birth Rate	41-30	41.34	48-23	16.11	25-97	85.21	31.74	89-98	16-81	43-08	60.19
-	Births	ad.	Tribuloxe Suibuloxe stirid Hits	30,985	31,665	88,288	82,770	20,644	861,62	26,056	86,519	41,874	40,753	560,922
			Year	1938	1989	1940	1941	1942	1948	1914	1945	1946	1947	1918

ALLYI' SLVLIBLICE

0	The se		DAL	SELI				155		-							0.00		EEME	In	No.	-	,15
000	No. 1	0000	0000	9000	Absent	2,770	2,978	2,315	2,445	1,353	1,808	1,963	009'1	2,056	486	1,039	1,577	22,390	Printary Meyacolini flori	atomi sus	salidate the	Changeouth to	TY Mo.
	STATEMENT		340	888	2200	15	95	18		7	100	90	H-35	100	1	1	63		LUF BOAL			8	TEMES
0 0,000	STATE		1885	Besults	Un- success- ful	7,615	11,295	7,218	6,869	5,224	5,157	7,088	4,835	5,197	1,767	2,804	6,463	71,532	gronning	- month		abla	BEN
P.178 97.56			nations	1000	Success- ful	422	603	323	876	207	215	444	255	281	85	140	292	3,643	(3,079) —	Total		Me-vaccin	
100,000,00	PER ST	TAIN AND AND AND AND AND AND AND AND AND AN	Re-Vaccinations	poinated	Total	10,807	14,876	9,856	069'6	6,784	7,180	9,495	069'9	7,534	2,338	3,983	8,332	97,565	Males Stales				
200,700	野野	73	1289	в Ве-уа	1885		100	100	100	59	151	53			1,049	W. H.	384	8	Cross				
0	1113	1948		f person	Females	5,265	7,016	4,722	4,336	3,263	3,426	4,353	3,080	3,378	1,0	1,756	3,532	45,176	on apox		1		Buiruf
		month in	S S S S S S S S S S S S S S S S S S S	Number of persons Re-vaccinated	Males	5,542	7,860	5,134	5,354	3,521	3,754	5,142	3,610	4,156	1,289	2,227	4,800	62,389	Phone fro years suder ten			ethough	databylin
		ing each	3588	1888	Absent	100	-	1		-	1	-				1	18	123	inder our part of ag a year a			Primary 70	
		rmed dur	Kod 1932	Results	Un. success- ful	10	4	01	60	03	:	1	1	1 100	1 1 1 1 1 1 1	8	7	68	902 #899	Total		200	performed
		ons perfe	ions	ri i	20.00	2,890	3,395	3,373	2,947	2,445	2,604	2,964	2,917	3,037	2,083	3,096	4,445	36,196	States 83 Females				agolfant
7.30,815		accination	Vaccinat	1000	Success- ful	2,8	3,5	3,5	2,5	61	2,6	2,5	63	3,	2,0	3,0	4	E.	i de Glat		Per Der Court		noay to
17.000 @F/87		Showing vaccinations performed during each month in 1948	Primary Vaccinations	accinated	Total	2,896	3,400	3,376	2,950	2 447	2,605	2,966	2,918	3,039	2,083	3,100	4,470	36,250	Name of		to occurate		Brainolines
Tafo'P		133	Asto	Number of persons Vaccinated	Females	1,416	1,630	1,650	1,485	1,218	1,282	1,408	1,422	1,437	1,013	1,457	2,229	17,637	33				Itray selwork
		31	Poli	Number of	Malos	1,480	1,770	1,726	1,465	1,229	1,323	1,558	1,496	1,612	1,070	1,643	2,241	18,613	84	Otherston			
		200	Boys	- The same	1000	g!	:	:	:	36	85	38	Smo	:				001	350	I be sand!		1	
	ION	pleas gar	September 1	Month	towers Name			avande ent		STATE OF STREET			Spring and a					Total	80			-	VALOR
	VACCINATION	A SE SE	* DOF	essa essa	ASER.	January	February	March	April	May	June	July	August	September	October	November	December	1 200	DIA	inform 3	do.	-	ATCCIMITION
	*	H	-15		1	J	H	M	A	N	2	7	A	200	0	Z	H		•				

12.2

STATEMENT No. II of successful cases in which the results were known 8.7 note Kevaceina-10000 0.000 100.0 0.001 99.8 6.66 Limera 22,390 Unknown Result 3,648 Injesecong Re-vaccination 1,510 1,510 1,520 1, 97,565 LatoT 45,176 Total Females 292 52,389 Males 23 Опклочи 428 480 480 480 480 480 720 924 720 924 426 844 426 421 421 36,196 Showing particulars of vaccinations performed in each division during 1948 LetoT 10 Successul fon years 694 Primary Vaccination under ten sreak 8,896 One year and evil nebnu 26,601 oSw jo zwoa Onder one 36,250 Into I 71,002 62,813 1,38,815 18,613 17,637 genre jes Malos Total No of persons Vaccinated 821 821 821 821 821 821 821 Femulos. 1,190 1,294 1,274 887 887 928 1,274 928 1,274 928 1,274 1,251 1,401 1,401 1,401 1,401 1,401 1,401 1,401 1,401 1,279 1,368 1,368 1,140 1,068 Males i Total Name of Division Thousand Lights
Nungambakkam
Kodambakkam
Theagaraya Nagar (North) Mirahibpet
Mylapore (North)
Mylapore (South)
Toynampet
Theagaraya Nagar (South)
Esidapet Pudupakkam Phiruwatees waranpet Kachaleeswarar Coil New Washermonpel Barracks Komaleeswaranpet Kothawal Bazaar rovelyan Basin eeviroyanpe "urasawalkam Chintadripet Pullantope Perambar B ynavaram VACCINATION Sowcarpet Kilpauk Division No.

MEDICAL RELIEF

STATEMENT No. I

Showing cases treated in Corporation dispensaries in 1948

Maria Care	100			199						
	0.	CH		00	25.		Water	No of	م ا	田
6	No.	10 100		Year of opening	10.	of new	Total		No. of operations performed	Remarks
Serial No.	9	T (D: 10		E . E	Ca	ses	cas	es	of	ar
-	310	Name of Dispensary		Year			2 5.3		ra rich	H
-E	Vi.			O K	1947	1948	1947	1948	N ed	Be
3e	Division		-	1	1011	1010	101.	1010	0	20
0.1		9					1			
		D. D.		1004	25.10	01 007	07.040	00 500	000	
1	1	Royapuram Dispensary			25,143	31,607			279	
2	5	Washermanpet "			49,597	49,689			471	-
3	6	Vyasarpady : ,,		1929	35,419	36,532	64,403	68,345	442	Leprosy eli- nic attached.
120		7 0					3 4	Bi .	1 2	Hic mencinear
4	6	Perambur 8,,		1928	34,413	41,675			601	
5	8	Mint ,,		1923	44,892	98,471	92,197	1,01,027	436	
6	11	Harbour ,,		1929	30,851	36,457	69,924	80,203	289	
7	14	Mafuzkhan Garden,			30,918	40,143	64,500	97,471	414	
8	16	Trevelyan Basin "			31,248		66,698		616	
9	17	Baliah Naidu "			36,947	40,524	68,923		379	70 3
10	20	Combian			54,252		1,22,451		1027	
11	21	Amanamam	***	1948		10,366		23,797	142	Opened on
**	41	Ayanavaram ",	•••	1010	***	_10,000	1 15 15	40,101	142	16-10-1948.
12	23	Kilpauk ,,		1010	30,970	27,361	57,524	51,139	68	
13	24		***		27,600		46,942		618	
14		Kosapet ,,				40,597	65,355		0.00	Marine Sales
14	29	Chintadripet ,,	***	1909	34,670	40,587	00,500	80,679	96	Lady M.O.
	00	7		1000	15 000	00 770	20 524	11 000	100	The said
15	32	Egmore ,,			15,386	22,556		44,998	166	
16	34	Nungambakkam ,,			29,437		64,574	84,709	302	
17	35	Kodambakkam "		1948		4,781	TH 9	11,454	68	Opened on 1-9-1948
							1 2	2	100	1-3-1790
18	37	Pudupakkam ,,			24,338				165	
19	41	Triplicane "		1918	37,145	38,235	73,261	77,967	89	
20	43	Krishnampet ,,		1938	20,870	28,014	46,265	69,503	110	
21	45	Mylapore ,,		1924	36,780	33,963	76,651	65,957	311	Lady M.O.
1000	191			1	-	-		2	50	
22	46	Teynampet ,,		1927	25,659	35,527	56,337	65,607	220	
		"			W. Fr				B.	Lady M.O.
23	47	T. Nagar		1922	37,250	46,360	75.865	1,06,218	325	Shifted from
	33	1. Magat		2200		5	8 4			Pulianthope
24	50	Adyar "		1948		4,861	Pal.	11,615	30	Opened on
	00	Auyai "		1010	200	1,001	100 1 3	22,020	0	15-8-1948
25	33	Ayurvedic ,,		1930	32 260	35,233	63,322	71,043	480	Lady M.O.
20	30	Ay divedic		1,000	02,200	00,200	00,022	11,010	100	
26	13	Mannady Unani		1039	19,622	19,472	48,038	43,776	33	
27		Pulianthope ,,	***		24,401	27,070	48,479	55,099		Shifted from
21	18	Funanthops ", ",	***	1930	24,401	21,010	40,410	33,033	00	Thyagaraya-
00	0.	n 2		1090	20 100	0 004	50 000	10.600		nagar.
28	31	Pudupet ,, ,,		1959	20,109	8,804	50,820	10,696	84	
29	39	Tiruvateeswaran-		1000	20 505	20 20-	00.001	00.004	950	
-		pet Unani "	•••	1932	36,785	38,305	82,981	88,904	350	
30	3	Royapuram			00 110	200 101	E0 500	00.011	1.0	
10000	1000	Siddha ,,		1945	28,110	32,434			17	E
31	17	Choolai ", ",		1931	49,531	61,751		1,37,188	137	H
32	19	Otteri ", "	***	1931	35,708	39,944	76,118	73,586	60	
		13	-	1 8			- 5		1	25
The same	1	- A		1100		25	E E			100

No. H No. I	TEME	та	Average Monthly	Aviendance	3,763			TEF 11,002	19,344 10,344	MEDIC
STATEMENT	bunroungd bullijons 200 og	Foarly Total	ALL SE		45,159	in Corpor	Pos trested	owing ca	1,84,125	Division No.
1 7	279 471 442	isoases	No. of	Perfor- med	1,650	11 22 25 14	ynang	quik I me	1,650	
degroey ell-	linics	Skin Diseases	No. of	skin cases	14,507	800 35,41 108 34,41	1,00,4	Yah	85,772	0287 47
	the Corporation clinics	0,208 7,471 9,879 7,076	No. of	Performed	4,777	3 10 31 24		nn Card	8,603	6 14 21 20 20 20 20 20 20 20 20 20 20 20 20 20
	the Corp	3,823	1511,	"other wise"	106 901	1016 54,26 518 512	128	ntan	275	
Tank State	.S.10	Tork S	atment	No. arrested	169'07 U	m,72 02 0		ipot	26	12 22
	prosy tre	Loprosy W	Results of Treatment	No. d symptoms free	187.4	1923 29,45	7	paldom Akkam	24	15 32 16 34 17 88
Lafe M.C.	es and le	Details of Anti - Leprosy Work	Res	No.	165	8,08 31,1		South States	252	18 07 20 48 20 48
	in diseas	Details	723	ive cured	000,00	10,70 TEC		pet	T. 3eg	22 40
Operat co ti-3-1916 Laty M.O.	ses of sk	11,615	Types	Infective Infective	112 193	24 163		01	138 439	24 50
Shinol from Throughtapa- rages	Showing cases of skin diseases and leprosy treated	18,776 15,098	New	-	27,070 07,070	1038 19.6 1030 24.4 8		u squi	Mannad Puliant Pudupe	26 13 27 18
	850	108,88	Date of Date	.98	2-2-1934 30	788 20,1 78-1931	":	There	Pudupe Tiruvst pet U Rogapu	28 31
RELIEF	137	31,188 73,686	ion se ion	53, 93, 97		THE PERSON NAMED IN	ispen-	and o	Side Chooles	32 18
MEDICAL RELIEF			Name of Institution		Ice House Road Skin and Leprosy Clinic	Vyasarpady Leprosy	Other General Dispensaries		Total	2000
ME			Name		Ice Hor	Vyasarps Clinic	Other G			

- A 1	OTO	10.30	T	70.7
Al	30 M	HI N	11111	-

# 36	1		1		- 1114		-		10	101
No. 1		letoT	42	4,467	282	4,791	4,232	488	10.2%	1
INE	Gro	Con cots	0000	1,031	1000	1,034	1,030	age H	2 2	4 18
TEM		Dengue	PRI	-	OH O	67	61	7/0 :	Tolan	Som OF
STATEMENT 1948	1	FinalsK	1001	3	- 67	10	787	go-1 1.	20.00%	
year	1	Other Diseases	1885	87	6	26	85	13		2 9
the		Secondary	1	91	33	19	19	300		100 SE 0
ring	Lal.	Mumps		13	4	17	Defect	7.0		0
es du	цВ	Whooping Cou	000	6	0.00	6	00			-
iseas	10	Diphtheria	875	50	-	21	50			1
ous d		Pneumonia	200	9	C1	œ	9	61	%00	
vario		Table .	1000	The same	- 01	100000	Dolooti	AG	25.6	
nder al. T	si	T. B. Meningit	0000	2000	1000	2000	Percent	oto 5	20-00	1 20
died under various diseases during the Hospital, Tondiarnet		Pneumococeal Meningitis	1981	2040	15.5	100	Diffect	100	100% 20.00% 25.00%	10,102
harged or Diseases	si	C. S. Meningit	Lyerage	9 9	60	6	100	61	22.2%	18 118
discharged		Plague	0000	0000	000	1000	1			193
itted, discl	150	Measles	SE CHI	86	1	109	109	49	A Cons	A:
-		Chicken pox	23	787	39	851	832		-	19
s adm	37:	xoq-llam8	63	81	65	86	52	11	12.8	6 83
of cases	-OJI	Acute G. E. Dysentery, Chritis	-	1,133	11	1,217	196	252	20:7% 12:8	4
ımber	65°-	Cholera	15 47 E	1,170	131	1,301	1,083	205	15.8%	13
MEDICAL RELIEF Showing the number of cases adm	THE STATE OF THE S	18 Determities of a constant of the state of	Patients in the hospital on 31-12-47	Patients admitted for treatment from	1-1-48 to 31-12-48 Mofussil	Total No. of patients treated during the year	Total number discharged	Total number died	Mortality rate	Patients in the hospital on 31-12-48
1000										

1975							a take	121							
No. I	1 77	stks	Rem	1,232	4,181	8.78	-	080							
	1	Total of trants & regulars	eget	Регсеп	12.74	3.86	6.55	80.0	0.01	0.91	0.15	10.0	90.0	1.60	0.14
STATEMENT		Total of entrants regulars	SVive	Defec		480				113	19	100	8	199	18
STA		S	ntage	1947-48	12.41	6.72	8.19	0.01		0.84	09-0	0.10	0.05	8.81	0.13
1-	Girls	Regulars	Percentage	918.49	13.22	4.23	2.45	60.0	10.1	96-0	0.12	0.02	0.07	6 97	0.16
-	9	H		oN Defec	6001	323	187	1-1		73	6	1.0	0 20	142	
	1			1947-48	11 02	2.60	1.80	0.00	90.0	0.71	0.23	0.08	90-0	1.66	01.0
-	T III	Entrants	Percentage	948-49	1.99	3.58	1.15	90-0	0.05	0.84	0.51	0.05	90-0	5.70	0.13
	18	B		Defec	574	157	555	20 ox	1	40	10	39	99	573	0.9
	4	ts &		Percei	7.14	0.64	2.08	0.07	0.05	0.57	0.45	9.81	0.00	2:06	60.0
6		Total of entrants & regulars	Opino Opino	Defe		2425 1					102			469	50
1948-49				1947.48	5.15	10.82	2.34	0.61	0.00	0.72	0.43	3.14	0.03	2.05	0.14
		Regulars	Percentage	1948-49		7.04		-	-	-	0.31	1-93	0.04	1.81	80.0
	Boys	Re	отіто	Defe		1359 1					45		731	240	
	61 TO		age o.	1947.48	18-41 2	-					0.77	4.56	81.0	3.13	0.17
	18 50	Entrants	Percentage	1948-49 19	17-96 1	-	2.55		0.05	60	14	-	0.03	Mary In	60-0
-		Ent	0/8			-			0 .	37 0			3 0		6
		60 1	Vo. ctive		1717	1066		: :	071.1	:	:	2			
-	no				ails						00		ems	2	100
OLL	ations	sts		2000	and n	1001				am em	m		ic syst	defect	
NSPE	9	Defects		adoed	n bodv	mout	88	00		syste	organ	joints	psych	ises &	
MEDICAL INSPECTION	T OF	nimper qua		otal number disoblation	Malnutrition Dirty head, body and nails	Tests and mout Nose and throat	Eye diseases Vision	Ear diseases	ing	Circulatory system Tuberculosis	Respiratory system	Bones and joints	Nervous & psychic systems	Other diseases & defects	Deformities
EDIC	or street	min p		THE THE	Maln	Test	Eye di	Ear	Hearing	Circu	Resp.	Bone	Nerv	Othe	Defor
X	Sat	No.	33	300	- 63	00 4	5.0	1	00	21	12 13	14	91	17	19

MEDICAL RELIER.

STATEMENT No. III

18--16

	ical Ins											
	roup		No. o	n roll	Averag atten	e daily dance	No. ex	camined	No. de	fective	Per	centage
INITA	8	0.00	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boy	s Girl
Entran	its	18-23 2'385	26,935	16,061	22,147	12.074	9,559	9 4,787	3,964	1,435	41.4	17 29-9
Regula	rs	10.0	125.00				13,231	7,635	5,536	2,850	41.8	34 37.3
	Tota	l E	26,935	16,061	22,147	12,074	22,790	0 12,422	9,500	4,285	41.0	38 34.5
Medi	ical Insp	pectio	n		Trea	atment	Table			Staten	nent	No. II
Co	courat-	ed	00	on on ies	i to	2-	ital	l to	mts	sits		ons en
Gro	The Year	treated	schools	No. sent to Corporation dispensaries	No.referred t Governmen	rrec	osb	rrec	are	to	schools	Nocof re- camination of children
GIO	up		sc	No. sent Corporati dispensa	ver	efe of	H	percent	of po	ofr	scho	oo o
De	by Pro	No.	ats	Corporation dispensaries	No.referred Governmen	Nor	mic Hospita	No.referred to Tuberculosis Institue	No. of parents met	No. of revis	- 3	examinations of children
Boys	din A	7,5		1,848	1,736	9	04	27	2,145		94	8,382
Girls	wind .	4,1	43	352	188		0	:	717	0 13	56	7,920
	Fotal	11,7	114	2,200	1,924	10)4	27	2,862	8	50	16,302
a Oil	1000	1 2		- AND AND A								
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APPENDIX						
A DELEVISION OF THE RESIDENCE	10.0	W-3/2	TOWNS.	NT.	200	TXT.
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864 H	t day	dis to Statem	Apper	AP	PEND
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4.00-1

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SANITATION

Serial No.

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	No. of M. Hs.	Nos. 110 140 140 140 140 140 140 140 140 140	595	
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	dignel letoT bial newed to	in ft. 7,566 14,654 3,306 5,788 4,484 4,484 778 5,429 1,283 2,679 8,255 2,679 8,255 2,679 18,833	96,792 r 18:33 miles	Sentrants
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/ear	IE G. I. P.	# 1118 118 1111111111111111111111111111	5 10 1	
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Wer	6. C. L. P.	# 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and open	
e se	Sewer	t	952	
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progress of sewer laying for the year 1948	Sewer	732 732 341	2,085	
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90	9 S. W. P.	in ft. 4,687 6,055 6,055 313 2,514 632 933 5,523 1,359 13,687 6,244	42,58	
Showing the	Sewer		39,920 42,589	6 4
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	ame	Tondiarpet Perambur Vyasarpady Purasawalkam Kilpauk Chetpet Aminjikarai Napier Park Greams Road Ice House Ro North Mylapo South Mylapo Theagaraya N Adyar	8 4.	8£
	1	Tondiarpet Perambur Vyasarpady Purasawalka Kilpauk Chetpet Aminjikarai Napier Park Greams Roa Ice House I North Myla South Myla Theagaraya Adyar	30 TO 10	20 6
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		Tondiarpet Perambur Vyasarpady Purasawalkam Kilpauk Chetpet Aminjikarai Napier Park Greams Road Ice House Road North Mylapore South Mylapore Theagaraya Nagar	28 3	23
				SAR.

-28470-8012EE4

SANITATION

STATEMENT No. II

Showing disposal of applications for licences in 1948

No.	Description of trade		No. of cases dealt with	No sanc- tioned	No. refused	No. pending	Remarks
1	Aerated Water & Ice Factory		70	70	0.2		
2	Bakery, Sweetmeat Stall & Coffee Hotel		626	622	3	1	5 0
3	Candles & Soaps		29	28	4.5	1	112
4	Cocoanut Fibre, Hemp & Jute		31	31	8.5	:::	118
5	Cattle Yards		1768	1633	76	59	
6	Bones, Hoofs, Hair & Wool		30	29		1	
7	Cart & Cycle Stands		73	70	1	2	
8	Dairy Produce		395	391	2	2 2	1 2
9	Flour			370	3	09	8
10	Gilding & Condiments		252	250	2		100
11	Hack Stables		6	5	1		10
12	Dyeing			118	10 3	1	4.5
13	Onions & Garlie			161	2		5.9
14	Oil & Oil Mills			765 107	1000000	2 4	18 =
15	Lodging Houses			43			100
16	Markets		150	154	2		ratar
17	Meat		OFO	258			38
18	Spirits, Turpentine, Chemicals & Rosins		591	530		ï	2
19	Laundries	•••	90	19	s	i	B (8)
20	Fish & Fins		045	245	***	100	12-
21	Skins, Hides & Leather						1
22	Paddy Boiling						800
23	Sugar		7	6		ï	200
24	Catgut, Offal & Tallow		101	180	ï	10.75	100
25	Snuff		138	136		2	E2 .
26	Cotton		2282	2201	77	4	Pån O
27	Eating Houses	***	3	1000	8 8	20 3	100
28	Swine	***	69	56	13	1	1 31
29	Lime Kilns Beedi Manufacturing		200	362	1	3	
30	Manufacturing Cigars, Cigarettes or Stor			002	8.8		
31	Tobacco Tobacco		316	316			
20			44	44			
32	Camphor, Storing & Boiling		1797	1790	2	5	100
33	Shaving Saloon Husking of Paddy		24	24	76 70	3 3	-
34 35	Groundnut Storage		200	199		1	
			627	627			
36	Grain Storage Gold Refining		13	13			1
37 38	Poultry		28	28			70
30			- 8	-			- 3
				11,881	187	93	1
	NIAE	15					22

and the same of th	Remarks	10 - 10 kg	TOWNSTREET STATE OF S	-
STATEMENT NO.	Wo. Wo	STATE OF THE STATE	Description of trade	No.
WATER ANALYSIS Showing the examination of water samples in 1948	Description Description Of samples Of samples	25 25 25 25 25 25 25 25 25 25 25 25 25 2	Misroscopical examination of water from different places in the water supply system Identification of algae Identification of algae Calture media, etc., for determination and adjustment of PH Samples of water tested for the presence of chlorine, interfering substances, etc Examination of Hy S in filtered water samples Complete examination of well samples Total	128456789012845678

H-17

STATEMENT NO. III

No. of samples	WATER ANALYSIS	YSIS		Resul	No. of Section	Notice of the last	Chlor	instion	Chlorination data for 1948	1948	- Company	1		STATEMBNT No.	Ио. П
Month for interfering substances Max Min Mean Max Min Mean post-chloring nation nary 1240 24.82 22.82 23.73 1.17 1.07 1.11 8222.0 ch 1240 24.82 22.82 23.73 1.27 1.07 1.11 8222.0 ch 1240 24.00 22.16 23.23 1.27 1.07 1.11 8222.0 ch 1240 24.16 22.62 23.72 1.54 1.49 10402.0 r 1240 24.66 23.02 24.16 1.62 1.89 1.49 10402.0 r 1240 24.66 23.00 24.00 1.65 1.89 1.52 11420.0 sember 1240 24.16 21.82 23.26 2.11 1.02 1.89 9589.0 smber 1240 24.16 21.36		wallog	No. of samples of water tested for free chlorine and	Quan filten galle	CT and	water Illion day	Dose	of chlo	rine p.	Lbs. of chlorine used per	Lbs. of chlorine used per	Total lbs. of liquid chlorine	Cost of	Total cost	Average No. of beds
r 1240 24.82 22.82 23.73 1.17 1.07 1.11 8222.0 r 1160 24.00 22.16 23.23 1.27 1.09 1.15 7823.0 r 1240 24.16 22.66 23.52 1.54 1.24 1.42 10402.0 r 1240 24.16 22.66 23.52 1.54 1.49 10618.0 r 1240 24.80 23.00 24.00 1.62 1.33 1.49 10618.0 r 1240 24.66 23.00 23.20 2.18 1.50 1.89 13648.0 r 1240 24.66 23.00 22.80 2.11 1.02 1.38 9588.0 r 1240 24.00 22.00 22.78 3.33 1.41 2.38 9588.0 r 1240 24.16 21.36 12.35 4.02 2.65 3.19 17278.0 r 1240 22.66 21.16 22.36 1.77 0.92 1.29 8753.0 r 1240 23.66 21.66 22.36 1.77 0.92 1.29 8753.0	Month	2 3	for interfering substances	Max	Min	Mean	Max	Min	Mean	post-chlori- nation	pre-chlori- nation	used per month	per lb	38 18.38	
T. 1240 24.82 22.82 23.73 117 1-07 1-11 8222-0 T. 1160 24.00 22.16 23.23 1-27 1-09 1-15 7823-0 T. 1240 24.16 22.50 23.72 1-64 1-49 10402-0 2 T. 1240 24.16 22.50 23.72 1-62 1-33 1-49 10402-0 2 T. 1240 24.80 23.00 24.00 1-65 1-86 1-60 1-60 1-60 1-60 1-60 1-60 1-60 1-60 1-60 1-60 1-60 1-60 2-60 2-60 2-70 1-6		a oba		2	970	10.851	Still	200	Tipo	14 40.0 prio 410.0		0 00	Rs. A. P.	Bs. A. P.	200
ty 1160 24·00 22·16 23·23 1·27 1·09 1·15 7823·0 1240 24·16 22·66 23·52 1·54 1·42 10402·0 2 1200 24·16 22·50 23·72 1·62 1·33 1·49 10402·0 2 1200 24·86 23·00 24·00 1·65 1·36 1·52 11429·0 2 1240 24·66 23·00 24·00 1·65 1·40 1·60 11514·0 1 1240 24·16 21·82 23·20 2·18 1·50 1·89 13648·0 3 sr 1240 24·16 21·82 22·80 2·11 1·02 1·38 9598·0 4 sr 1240 24·16 21·30 22·28 2·65 3·19 2·49 1/738·0 2·49 1/738·0 2·49 1/738·0 2·49	January	Walling!		24.82	22.82	23.73	1.17	1.07	1.11	8222.0	2232.0	10554-0	9.6.0	6266 7. 0	-
1240 24·16 22·66 23·52 1·54 1·42 10402·0 25·16 22·50 23·72 1·62 1·33 1·49 10618·0 25·16 22·50 24·10 1·65 1·36 1·52 1·1429·0 24·10 24·16 23·20 24·10 1·50 1·50 1·50 1·1514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 11514·0 24·16 21·30 22·30 21·11 1·10	February	:		24.00	22.1	23.23	1.27	1.09	1:15	7823.0	2088-0	9911-0		5884 10 6	0.11.0
1200 25.16 22.50 1.62 1.33 1.49 10618·0 2.50 24.80 1.65 1.65 1.36 1.52 11429·0 24.80 24.80 24.90 1.65 1.36 1.52 11429·0 24.80 24.90 23.38 1.76 1.40 1.60 11514·0 1.50 1.240 24.16 21.82 22.80 2.11 1.02 1.38 95.93·0 4.55 1.240 24.16 21.30 22.78 3.33 1.41 2.38 95.93·0 4.55 1.240 24.16 21.30 22.78 3.11 1.60 24.9 16783·0 2.56 21.16 22.90 3.11 1.60 2.49 16783·0 2.56 21.66 22.36 1.77 0.92 1.29 8752·0 3.55·0 3.5	March	:	1240	24.16	22.66	23.52	1.54	1.24	1.42	10402-0	2232.0	12634-0		7501 7 0	10.9
st 1240 24·86 23·00 24·00 165 136 1·52 11429·0 st 1200 24·66 23·00 23·38 1·76 1·40 1·60 11514·0 mber 1240 24·16 21·82 23·20 2·18 1·50 1·89 13648·0 or 1240 24·16 21·98 22·80 2·11 1·02 1·38 958·0 or 1240 24·16 21·30 22·36 4·02 2·65 3·19 1/278·0 or 1240 22·66 21·16 22·36 3·11 1·60 2·49 16783·0 obst 1240 23·66 21·66 22·36 1·77 0·92 1·29 8752·0	April		:	25.16	22.50	23.72	1.62	1.33	1.49	0.81901	2160.0	12778-0		7586 15 0	10.3
st 1200 24·66 23·00 23·38 1·76 1·40 1·60 11514·0 3 st 1240 24·16 21·82 23·20 2·18 1·50 1·89 13648·0 3 mber 1240 24·16 21·98 22·80 2·11 1·02 1·38 9588·0 or 1240 24·16 21·30 92·35 4·02 2·65 3·19 17278·0 4 nber 1240 22·66 21·16 22·00 3·11 1·60 2·49 16783·0 2 nber 1240 23·66 21·16 22·36 1·77 0·92 1·29 8752·0 3	May	- willow		24.80	53	24.00	1.65	1.36	1.52	11429-0	2232-0	13661-0	"	8111 3 6	
st 1240 24·16 21·82 23·20 2·18 1·50 1·89 13648·0 mber 1240 23·98 21·98 22·80 2·11 1·02 1·38 9786·0 or 1200 24·00 22·00 22·78 3·33 1·41 2·38 959·0 4 or 1240 24·16 21·30 22·35 4·02 2·65 3·19 17278·0 4 nber 1240 23·66 21·66 22·36 1·77 0·92 1·29 8752·0 3	June	:		24.66	23.00	23.38	1.76	1.40	1.60	11514.0	1487.0	13001.0		7719 5. 6	0.11
1240 23-98 21-98 22-80 2-11 1.02 1-38 9788-0 1200 24-00 22-78 3-33 1-41 2-38 9598-0 1240 24-16 21-30 22-35 4-02 2-65 3-19 17278-0 1200 22-66 21-16 22-00 3-11 1-60 2-49 16783-0 1240 23-66 21-66 22-36 1-77 0-92 1-29 8753-0 3	July	1	1240			23.20	2.18	1.50	1.89	13648.0	2418.0	15066'0		8945 7 0	12.2
1200 24.00 22.78 3.33 1.41 2.38 9898.0 1240 24.16 21.30 22.35 4.02 2.65 3.19 17278.0 1200 22.66 21.16 22.00 3.11 1.60 2.49 16783.0 1240 23.66 21.66 22.36 1.77 0.92 1.29 8752.0	August	8	1240	23.98	86.12	22.80	2.11	1.02	1.38	9788.0	578.0	10366.0	Alle	6192 5 0	12.3
er 1240 24·16 21·30 22·35 4·02 2·65 3·19 17278·0 12280 22·66 21·16 22·00 3·11 1·60 2·49 16783·0 1240 23·66 21·66 22·36 1·77 0·92 1·29 8752·0 3·10 3·10 3·10 3·10 3·10 3·10 3·10 3·	September	i i	HOOL	24.00	22.00	22.78	3.33	141	2.38	0.8636	4595.0	14493.0	dein z Heits	8605 3-6	31.3
1200 22.66 21.16 22.00 3.11 1.60 2.49 16783.0 1240 23.66 21.66 22.36 1.77 0.92 1.29 8752.0	October	10	8071		21.30	22.35	4.03	2.65	3.19	17278.0	4871-0	22149.0	,	13150 15 6	114
1240 23.66 21.66 22.36 1.77 0.92 1.29 8753.0	November	:	N IE	22.66	21.16	22.00	3.11	1.60	2.49	16783.0	2550.0	19333.0		11478 15 6	12.1
	December	:	HOL	23.66	21.66	22.36	1.77	0.95	1.29	8752.0	3 747.0	12499.0	Total	7421 4 6	10.5
Average 1220 24'19 22'26 23'09 2'13 1'38 1'74 11346'25 2599'17	Average	:			22.26	23.09	2.13	1.38	1.74	11346-25	2599-17	13870.0	-	8238 6 11	11.26

MATERIA VINTERSIE

STATEMENT No. III

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WATER ANALYSIS

Chlorides g g g	16.8	0110	8.4		0.9	011.	- 8-1-	8.7	8.0	Arthropo	5.1
Total Alkalinity	0 7	0 3	11.6	0	15.4	0 0	19.32	19.38	21.48	:	15:14
Alkalinity to Methyl Orange	102		9.11	1DO	14.4	0.0	19.32	19.38	19-7	1 ::	13.92
Alkalinity to Phenolph-	00		Nill		1.0	: 6	NII	Nil	1.78	0000	1.22
ssenbrad latoT	Janar	1300	7.5	- inos	0.6		0 :	6.9	deres la	di Lajo	8.5
Temporary hardness	0.0	0:	4.5		9.9	: "		4.5	1	-	5.5
Permanent hardness	242	110	3.0	:	2.2	: 109	* :	8.50	Direction of the last	noise.	3.0
Total solids	0.844	0110	20.0	- Constitution	35.0	1000	40.0	38.0	36.5		28.0
Dissolved oxygen	128	= :	5.95 ce/Litre	:	6.65 co/Litre	. M	cc/Litre 5.4	Litre 5.3	5.3		6.7
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.80	1.00	500	-	9 00/1	1.1	co/l	co/l	loo loo	done.	cell
(edirtiN) negordiN snortiN	1.00	1.60	IIN	::	IIN	: N	N	Nil	Nii	d of on	Nil
Witric Witrogen (Witrate)	× :	B:	N	::	IIN	: 5	IN	Nil	Nil		Nil
Absorbed oxygen	23.30	A:	0.226		0.284	0-300	0.354	0.337	0.337	of the s	0.276
negortin bionimudia	10 al 21	0220	0.026	:	0.026		0.075	080-0	880-0	or beauti	0.013
negoriti IssainommA	100	**	0.003		Nil	: EN	IN	0.003	0.004	Links	100.0
Ilems	122	4:	NII		Nil	: N	IN	Nil	Nil	Willes !	Nii
Colour and Transparency		:	yellowish & opaque		2		enbedo ş	:	:	-	yellowish & opaque
	:	:	1	:	:	: :	:	:	dia	-	:
Month Schmidt	January	February	March	April	May	July	August	September	October	November	December 1848

MALER SHAFARIS

V ON THREE MOTATE

WATER WHYTARE

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APPENDIX

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8			The state of the s						
816Ldamood	-	891	Military Miles	0.028, 1	Integrate XXI	Lactose fermenters in	s in colu	0.002 6028	- Shine-
October Month	- injuly	lo oV qmes	60 e. c.	+60 c. c.	- +20 c. c.	+10 c. c.	+ 5 c. c.	+ 1 e. e.	+0.1 e. e.
January	7 10 10 10 10 10 10 10 10 10 10 10 10 10	- Kill.s.	MI ZU	0.018	Digition XIII			- The	31
February		:			:				
March July		5		Nil	20%	40%	40%00	0:003 Nil 0:020	Nil
April Tonne	:	:		:::::::::::::::::::::::::::::::::::::::	Dente Trace				3
May May		10	Nil	IIN.	30%	30%	10%.	30%	Nil
June		:				-			
July Marcol	1	10	Nil	IN	IN	10%	%09	30%	Nil
August Koptonta			Nil	Nil	33%	34%	NII NI	33% 800	Nil
September		10	Nil	INI	10%	20%	20%	20%	Nil
October	No.	(+))		Nil	55%	25%	20%	Name	Nil
November Mouth	of :	:	i i	poq :	:	by g	inia ku	- : - :	:
December	-	10	N	Nil	Nil	80%	Nil	N:ii	N:N

- 1000					Important	Important chemical results in parts per 100,000	sults in I	arts per l	000'00		-	que			
1948		Raw 1	Raw water from infiltrati	infiltrati	on	gallery well, Saidapet	apet		Raw wa	Raw water from infiltration gallery well, Sembiam	infiltration	n-gallery	well, Ser	mbiam	
December North Corporate	lo, oV	a Hem8	Ammoniacel Nitrogen	bio nimudiA	Absorbed	sotantiN	seritriN	No. of Samples	HemS	IsosinominA nogortiN	bionimudlA negortiN	Absorbed	Nitrates	SELECTION OF THE PERSON	Nitrites
School January		2:		N.	- X	:	301	1	IIN	0.003	0.003	0.034	Nil	-	Nil
Valle February	61	Nil	Trace	0.004	0.050	Intense	Trace	9	1	1	:	11.72	18		
Total March		0:	8 Mon	-	100		200	1000	-	200	- Total	in Ho	3756	-0	:
1mg April	Total and	1				:	:	-	-	1000		200	-	les .	:
Web May	61	N	Trace	Trace	0.051	Intense	Trace	0.50	10.	Bi	-	-	156	00	:
Whill June	+ !	1 1	:	:	-	:		1	IN	0.000	0.003	0.030	Trace	90	Nii
Metal July		1	:	-	9	:	:	:	-		:	-	-	7-	1
August		-	:	0	-	:	:		:		:		-	-	:
optember optember		Nil	Nil	Nil	0.048	Intense	Nil		-			-	-		:
October	-	No. o	:	10 a 01.	08-4-14		20 00	With the same of t		+ 25.0	+::	1505	THO.	50	
November		o popular	:		111	-	:	63	Nill	0.016	0.002	0.028	Trace	90	Nii
December	Charles Co.	Nill	IIN	Nil	0.058	Tntense	Nii	100	201	100	-	18.00	11116		

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STATEMENT No. VI

1948		Raw water from infiltration gallery	water from	m infiltra	tion gall	ery well,	well, Saidapet			Raw v	vater fro	m infiltr	ation ga	Raw water from infiltration gallery well, Sembiam	Sembiam	
rodinor	10 80	NI 0 002 0 0120-218	0.0220.0	Lactos	Lactose fermenters in	ters in	0.0550.319	NA NA NA	80	Thomas is	0 0110 0220 58	4 0	ose ferm	Lactose fermenters in	0 505 211	N IN
Month	lo ol	-60 e. e.	-60 c. c. +60 c. c. +20 c. c. +10 c. c.	+20 e. e.	+10 c. c.	+5 c. c.	+1 0. 6.	+0.1 c.e.	lo .ol	-60 c. c. +60 c.	+60 c. c.	+20 c. c.	. +10 c. c	e. +5 c. c.	+1 c. c.	+0.1 e. c.
January	10 :	MI ZII	0.0820.851	51 Zer 8	1 11 11	ALL STANS	hoten sa	Z.L.Z.	78	Nil	Nil	Nil	100%	Nil	Nil	NNII
February	Pi 01	20%	20%	NII	Nil	Nil	Nil	Nill	100	MILLION CO.	dam's	T.	**	Down Street	10 25 a. 2017	NII.
March	1			60		Serie in the	20,020,02	N TIX O	14	Homily	0.0000	100	11	o TOBADTO	2000 d	N.
			:			and distance	no negation and	2 2011 10	1 .00	200 C.HR	100000	120	56 Ide	Diograms	P. Canzul	BU.
	03		Nil	Nil	Nil	20%	20%	Nil	- T	2017/00/00	to ormal	110 300	500 IN	O DOSESSESSES	Parest Mil	No.
	100 :	00 0 000	2001800	100 000	.:	-		, min -	1	Nil	100%	Nil	Nil	Nil	Nil	Nil
	18 :	MU TON	in 0.0120	100 201	100	-	o o otto			2000000	000000	100 000	III	Till acon	10.101. 21	Milk
Angust	10 :	MI MI	0 0100	I'm als	10 11		N.N.N.		2		A1		75	NI	d	100
optember	NO.	N		N	100%	Nil	Nil	Nill	0 01	mell	pain	U.Set	Balles	roga	PR (D	dpia
October	il sa	ODZW	Sen Sen bed	in :	OF STREET	milita	en: on:		amuli .	11900	moid m	:	rush	9	1	:
November	mbjor	curj :	g :	:	hyte	el :	:	:	61	Nill	Nii	100%	Nil	Nil	Nil	Neil
December	1-1	Nil	100%	Nil	Nil	NEI	Nil	Nil	-:	:		****	:	K	A	:

MATER -VNYTARE

STATEMENT No. VII

WATER ANALYSIS

Important chemical results in parts per 100,000

1		serintin	Nil	Nill	Nil	Nil	Nil	Nil	Nil.	Nill	N	Nil	Nil	Nil
	Jer	Nitrates	Nil	N	N	Nil	N	N	N	Nil	Nil	Nil	NII	N
	water S.	Oxygen	161	149	0-147	0.173	222	238	250	279	236	262	223	178
8	tap C. P.	Nitrogen	0.0500	330	390	0250	120	.0410.	0.062 0.250	0990-0	0780	0.0850	0660-223	570
ı	Test	- bionimudIA	0.0	0.03	0.0	0.0	00	0.0		200	0	0.0		0.0
ı		Ammoniacal	N	0.003 0.033 0.149	0.003 0.039	0.010.0	0.0150-0450-222	0.0130	0.050	800.0	0.054	0.054	0.0110	0.008 0.057 0.178
ı		soldmas to .oV	21	55	222	31	23	255	25	61	25	20	25	77
1		Nitritos	Nil	N	N	Nil	Nil	Nil	Nil	N	Nil	Nil	NEI	N
1	water	sotantiN	N	N	NH	Nil	Nil	Nii	NIL	Nil	Nil	Nil	Nil	Nil
١		Oxygen	163	147	146	178	224	242	256	288	245	285	234	190
1	filtered	Nitrogen	0330-	032 0-147	0420	0260	0650	0460	0990	0000	0780	0750	07000	0220
İ		bionimudIA		0.03	10.0					160	0.0	0.0	0	0.02
1	nate	Nitrogen	0050	0040	0040	0600	0130	00800	0180	0.0000	0.024	0.011	0:011	0.0080
	Chlorinated	llem?	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0	Nil 0
	0	No. of samples	21 1	222	22	22	25 7	25 N	25	22 N	25	20 1	25 N	77
		Restirstin	Nil	Nii	Nil	Nill	Nil	NEI	IN	Nil	Nil	Nil	Nil	Nil
	or	Solanii	Nill	Nill	Nill	Nil	NII	NII	Nill	N	NII	Nill	NII	Nil
	water	Oxygen	213	182	1771	207	270 1	276]	286	318	270 1	319	274	.246
	raw	Absorbed	80.5					0_					0.5	
		Albuminoid	9	0010	0410	0690	0.080	-057	0720	080.0	0820	0.0850	10.0	0990-0
	inat	Nitrogen	0050	000	0050	901	0002	600	0050	0.0050	0.003	0030	0.0030	
	hlorinated	IsosinommA	. 0:	Trace	9	Trace	0	0	0			0	-	Trace
	9	HemS	N	N	N	N	N	Z	Z	Z	N	Z	Z	N
.	-	saldmas lo .oN	21	87	222	55	1 25	25	25	7	25	07	67	124
		Nitrites	I N	N	N	I Nil	IIN I	N	Nil	N	I Nil	I Nil	Nil	Nil
١	Huit	solvatiN	N	N	N	N	Nil	Z	N	N	NII	Nil N	N	Nil
1	conc	Oxygen	0 040 0-216	0.047 0.196	190	0.0700-229	0.0680-279	0.0590.285	0.0760.303	0.0820.321	.305	-333	-278	0.0660-250
١	Raw water	Nitrogen Absorbed	007	147	490	700	089	290	760	850	820	840	720	999
1	w w	Alluminoid	0.0		0.0		0.0	0.0			0.0	0.0	00	0
1	Ba	Ammoniacal	Nil	Trace	0.002 0.049 0.190	Prace	N	000.0	0.001	N	0.003 0.082 0.302	0.003 0.084 0.333	0.003 0.072 0.278	Tace
	Raw water Kilpauk end of conduit	Ilems	Nil	Nil	Nil 0	Nil	Nill	NIL	Nil 0	Nil	Nil	Nil 0	Nil 0	Nil Trace
		Solgmas to .oV	21	55	22	57	25	25	25	21	25	50	202	24
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN C	1948	Month South	January	February	March	April	May	June	July	August	September	October	November	December

MALER VAVIABLE

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	1 1		200	Sint.	100	H				H							
XI	100		100	801	Mini	NH	11K.::	100	2001	N.	Nil	-		- :		Nii	:
T. No.	THE PARTY	olam	100	sogr	Mitti	NII	:	-	-	-	Trace	;	1	:	-	Trace	-
STATEMENT	100	of Sembiam	-		Oxys Oxys	0.032	- !		1	-	270.0	-	1	:	I.	0.065	
STA	THE PERSON NAMED IN	Distribution system of	-	bio	Albas	0.004	10 11	-	-	-	NHI	1	-			Nil	
	31	notion	1	lan lan	Nitro	Nil	100	-	-		Nil	1	i	- 1	1	NII	
	200	Distril			Ismel	Nil	-	-	-	6	EN	:	1		-	Nill	
	110	-	l	seqdu Je	No. o	10	i	-	1	-	27	:	- 1	:	1	10	
-	100	100		803	PHN	-	Trace	8	-	IIN		:	-	Nil	:	1	NII
	Important chemical results in parts per 100,000	Saidapet		sol	nitiN	-	Present	- 10		Intense	- A.	1	1	Intense	-		Intense
	ds per	lo ma			Abso	1	0.023	1	1	0.041	1	1	- 1	0.037	0.00	1	0.035
	in par	Distribution system of		- pio - pio	Mitre	-	Trace		:	Nill	100	1	:	N	1		NII
	results	stributi			Mitte		N	-	1	N	-	:	:	N	:	-	Nil
	homical	Di		1	leon8	1	N	1	1	N	1	-	-	NII	:		Nill
	ant c		1	popdur po	No.	1	01	1	1	9	1	1	1	10	1	1	10
	Import	10 1		-	PHN	1	1	Trace	Present	N	1	Trace	Trace	IIN	Nil	N	Тгасе
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		Distribution system of the city		bedr		:	1	0.137	0.188	0.550	1	0-249	0.261	0.245	0.320	0.159	0-177
	100	on syste		-minn béo	ndiA	:	1	0.041	0.041	0.039	1	0.027	0.063	0.00	0.992	0.088	0.054
	28.0	tributio		sonia cal nego		1	1	0.007	0.010	0.030		0.027	0.000	0.000	0.064	0.000	0.026
138	15	Dis			Smel	:	1	IN	NEI	No.	:	00 H	1	12	1	Nill Very	faint
ALYS	200		l'	olqmu	.oV	:	1	10	12	0	1	120	8	20	12	9	22
WATER ANALYSIS	78	1948		Month	375	January	February	March	April	May	June	July	Angust	September	Oetober	November	December
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																	9
																	No.
	Between	Remake				100		May	VPec.	Maria Maria		Spentitle .		The same			1986

MANAGES VEVEN

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Distribution system of the city Distribution system of Saidapet Lactose Co.c. c.c. c.c. c.c. c.c. c.c. c.c. c.c	2	WATER ANALYSIS	2	1	The sale			101 101	1	Impor	Cant	sactorio	Important bacteriological results	results	1							4	STATEMENT	BME	LIN	No. X
Distribution system of the city Loctose formenters in Loctose c.c. c.c. c.c. c.c. c.c. c.c. c.c. c.		Total			-	- Th	-	1000	44.	- 5	Thomas	中 中	4 1 4 4	- work	1000	6	1		1	-	-	-				
Tactose formanters in Lactose formanters in No. of samples No. of sample		1948 October 1948	- 1	Q	istributi	on syst	em of	the cit		0	100	Dis	tributio	n syste	m of S	idap	12	-		Distri	bution	system	of Se	mbia	H	
10 5% 10% 20% Nil		astribidad andi	səldm		L	etose fe	brment	ors in	4		səldu	1		toge fer	menter	s in	12	The same	soldm	tooling.	Lacto	so ferm	nenter	is is	000	
10 5% 75% 20% Nil		Month Course Sought	nes lo.oN	-60 e.e.	+60	+20	0.0.	+ 5		+0.1	No. of sa	+60	+60	+20 c.c.		THE RESERVE TO A PERSON NAMED IN	C1 22	+0-1	No. of sa	-60 c.c.	+60	+20	+10	4.0	- C-C-	+0.1
FY			-	:	7		-	1	:	1		:	-	2000		:	100	:	10	40%	25%	35%	Nil	Nil	Nil	N
12 25% 30% 40% 50% Nil			-	:	-	:		200	17.5	-	10	10%	10%	40%	40%	Nii	N	Nil	. :			-	:	:	1	:
12 25% 30% 40% 55% Nij Nij Nij Nij 10 40% 10% 50% Nij			-	5%	72%	20%	Nil	Nil	-	-	255			Section.	100	-	100	:	- 10		-		1:	:	1	:
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10 60% 20% 20% Nil Nil Nil Nil 10 66% 30% 30% 10 66% 30% 10				%09	20%	20%	Nil	Nil			uthis	01	:	i mhen	nebp	:	:	:	1	mdg	1	· indip	lai,	:	193	:
12 67% 17% 8% 8% Nil Nil Nil 10 870% Nil Wil Nil Nil Nil Nil Nil			-	%09	20%	20%	Nil	Nil		Nil	:	:	:	-	-	:	-:	:	10	%99	30%	Nil	300	Nil	N	N
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1946	sandres of samples analysed Percentage of	78 56	150 20.0	451 13-7	235 6.4	31 6.5	33 21-2	53 5.7	10	52 64.3	6 66.7	2,097 36.3
X1944 ZII	analysed analysed Percentage of Interated samples	199	158 34.8	658 13-2	495 6.4	6.9	14	9-11 69	21	67 34.3	13 38.5	2.038 20-7
1943	percentage of percentage of samples		189 31.2	703 24.3	137 2.1	911	42	83 19-3	30	1.98 19	19 63.2	7-66
ZEL ZEL 10	Percentage of initerated samples	N %		10.9	11.6	7.5 10	-	13-9		47.1	7.0 - 1	21.8 2.060
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100	soldmes to redum	У 2,054		607	450	67	711	226	31	Ti modelli	70	4.095
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ontoppe 13	Nature of Samples	Milk	Butter	Ghee	Gingelly Oil	Groundnut Oil	Cocoanut Oil	Coffee Powder	Tea	Ghee Substitutes	Other Articles	mar.

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STATEMENT		191 ni saoito	of convi	Number	166	3.4	31	56	01	88	:	:	1	00	1,152
STATE	8131 u	conviction i		Averag	643	30	10	42	36	-	48	1	22	125	43
1		8161 ni paso	oduit sea	il fatoT	42,566	1,605	2,580	1,550	180	1	1,59	1040	6.5	176	50,312
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28	Adulterated samples the samples analysed	ar nontone	nog torioi	troyed	-	::	14	348	1	:	:	:	00	pings	17
05	erated	under Sec-	besies	Number	203	44	34	31	10	:	29	1	00	Peri	853
49	Adulterated samples an	Male	dures jo		1044	67	99	52	10	:	37	mic	00	10	1284
	170	86 726			799	:	4 :	143	:	:	:	:	iogi	Ivii:	<u>:ie</u>
	24				-16										23
MALY	1 20	sample sample			12				110	-	er		ntes	in ly	Total
FOOD ANALYSIS	3	Nature of samplen			81			ly Oil	lnut C	int Oi	Powd		ubstit	Artick	25
FOC	9.	Nat Nat			MILE	Butter	Ghee	Gingelly Oil	Groundnut Oil	Cocoanut Oil	Coffee Powder	Tea	Ghee Substitutes	Other Articles	26
	2				116	1	-		I			-33.	qui	1.1	27
2					2.										
00					1901		175								

APPENDIX

STATEMENT No. I

CHILD WELFARE
Showing cases of labour which came under the observation of the Child Welfare Scheme in 1948

TI	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	Child		re Scher	-	1030	000	and it	70	1
1 4	1 B. B. B. B.	S S	CD 1	Conduct		o fine B	6	iste	Rema	
No.	Centre	By Nurses of C.W.S.	Taken to Hospital	Taken over after Bar- ber women conducted	Maternity	Total	Muslim	Non- Muslim	Twins	Still Births
1	Tondiarpet	202	64	47	554	867	11	856	12	34
2	Royapuram	700	60	58		818	167	651	9	23
3	Washermanpet	1013	174	50	333	1570	397	1173	11	41
4	Sanjiviroyanpet	504	46	24	362	936	39	897	14	25
5	George Town	425	144		862	1431	1216	215	13	29
6	Muthialpet	781	64	11	MAINS	856	154	702		22
72	Trevelyan Basin	821	98	44	613	1576	gec4	1572	7 ada	41
8	Kothawal Bazaar	446	70	12	Numb	528	192	336	6	9
9	Park Town	404	32	32	imp	468	bjok	468	2	9
10	Maty. Home, Choolai	704	123	23	1124	1974	13	1961	12	39
11_	Sembiam	597	68	63	389	1117	76	1041	8	20
12	North Perambur	507	-85	-63	463	1118	134	984	10	43
13	Pulianthope	800	65	72	458	1395	319	1076	8	50
14	Purasawalkam	906	101	100	551	1658	41	1617	10	22
15	Kilpauk	200	32	14	313	559	27	532	65	18
16	Chetpet	277	43	35	371	1726	12		8	13
17	Egmore	735	92	70	Fambe 4 -bas	897	142	755	6	18
18	Saidapet	220	122	45	708	1095	28	1067	6	32
19	Periamet	348	32	2	318	700	64	636	4	20
20	Triplicane	959	85	63	606	1713	683	1030	12	49
21	Mirsahibpet	929	42	11	muga	982	373	609	- 6	23
22	Mylapore	741	44	27		812	86	726	6	30
23	Royapettah	568	29	46		643	95	548	6	19
24	Mandavalli	487	18	12		517	5	512	4	17
25	Adyar Teynampet	140	32	13	237	422	3	419	5	270
26	00000	289	18	81		388	11		9	10
27	T. Nagar	168	4	31		203		203	2	5
28	Aynavaram	72		3 2:		82	4	78		2
		14943	1795	5 1051	8262	26051	4296	21755	209	690

STATEMENT No. II

Showing the number of visits paid by the staff of Child Welfare Scheme in 1948

Visits paid by

-		THE REAL PROPERTY.	V	isits paid	hv	
	n sosso	o. of Pro	Mid-	Health	Lady	Total
b	Ante-Natal contine	fingstei fillesti	wives	Visitors	Doctors	No.
1	Tondiarpet	Visitors	6716	8009	1222	15947 _
2	Royapuram 8181	8001	8309	9967	1169	19445
3	Washermanpet	1813	14757	10778	1313	26848
4	Sanjiviroyanpet	2623	12155	13460	1104	26719
5	George Town	1203	19097	12138	121501	32450
6	Muthialpet 8081	2168	11899	11795	999	24693
7	Trevleyan Basin	173)	19112	10793	1379	31284
8	Kothawal Bazaar	2381	6481	7348	837	14666
9	Park Town 808	1006	5376	10193	1053	16622
10	Maty. Home, Choolai	83L	14496	5050	572	20073
11	Sembiam 7022	2262	6991	6611	1155	14757 01
12	North Perambur	7627	9870	11673	1188	22731
13	Pulianthope [22]	BTTE.	13993	12231	1157	27381
14	Purasawalkam	2129:	18848	11637	1259	31744 81
15	Kilpauk	2862	4710	3811	945	9466
16	Chetpet 847	765	5187	3532	1266	9985
17	Egmore Selfana	# g811-	7977	8956	1256	18189
18	Saidapet 1881	19321	7329	8183	1254	16766
19	Periamet 0201	1740	7978	7520	990	16488
20	Triplicane 380	TOOL	19181	12345	1149	32675 01
21	Mirsahibpet 1412	1284a	11069	11463	1191	23723
22	Mylapore @881	3840	7635	13012	1221	21868
23	Royapettah (1911 5 3	171.6	7646	7615	1192	16453
24	Mandavalli	1877	5666	6215	1083	12964
25	Adyar V 100 3 3 3	- free =	10410	7496	1254	19160
26	Teynampet 018 23 23	= 808 ···	4920	8 13 24	89388	1024920
27	Thyagaraya Nagar		2880		ulpet	2830
28	Ayanavaram	g 3		34	araya Nag	27 Thyag
	4 4411	100	270638	231831	28378	530847

CHILD WELFARE
Showing the number of Pre-Natal cases registered and the number of booked cases conducted

	NAME OF TAXABLE PARTY.	DOOK	ed cases	conducted		TOTAL PARTY OF	
No.	feroT yba.I		-bil 1	No. of Pre- Natal Cases egistered by Health Visitors	No. of booked cases which attended the Ante-Natal Clinics	Cases no confined	
-	1999 15947	8008	10124	22100	140	hibnoT	100
1	Tondiarpet	7988	0088	1598	10 000	радо 192	2
2	Royapuram	10778	787-1	1843	1642	195 and 195	
3	Washermanpet	13460	88141	2523	2224	iviim 264	4
4	Sanjiviroyanpet	12138	7007	1203	1094 woT	sgrood 118	8
5	George Town	11795	000	2168	1803 Jaq	376	8
6	Muthialpet		25401	1731	1718	317	13
7	Trevelyan Basin	7348	181	2381	2278	100	87
8	Kothawal Bazaan	10193	8783	1006	893	103	6
9	Park Town	5050	801-1	831	ploor 767	79 79	10
10	Maty. Home, Che	oolai	101	2267	2207	314	n
11	Sembiam	11673	0780	1627	2,525	116	19
12	North Perambur		800	1776		200	S IS
13	Pulianthope	11637	Shake	2129	11 2134 3	156	19
14	Purasawalkam		010	2362	2264	220	21
15	Kilpauk ang		7845	765	748	110	10
16	Chetpet		7707	1195	1162	180	17
17	Egmore		086	1932	1681	165	18
18	Saidapet		136	1740	- 907	207	61
19	Periamet		220	100115	THE 2001	154	200
20	Triplicane	11463	.849	2873	3180.77	200	
21	Mirsahibpet		000	1840	1000	210	12
22	Mylapore	13012	7895	1471	1400	100	23
23	Royapettah		744	1877	010		23
24	Mandavalli	8215	568	29 500	210		
		7-198	0110	593	764	18yb 43	25
25	Adyar		14	990	519	74 minute 74	
26	Teynampet		2880	18 41	ava Nagar	Thyagail	70
27	Thyagaraya Naga			31 31	··· man	Ayamay	
28	Ayanavaram	231831	7,0538				
		Tota	1	41501	37918	4515	

		APPENDIX	STATEMENT No. VIS	I
N.	Total	1318 1642 2224 1094 1803 1718 2278 893 767 2207 1395 1744	2264 748 1162 1162 1629 986 2444 1839 1469 1780 1780 1780 1780 1780 1780 1780 1780	
No.	Other Diseases	4 2 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3988 342 342 342 343 388 388 388 348 348 348 348 348 348	
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13	Biddinoss	111111111111111111111111111111111111111	1 14-1-18 1 1 18 1 1 1 18	TEN
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and patients advised treatment in	Est and Eye diseases	100 1 101 100 + 1 1 1 1	111111111111111111111111111111111111111	
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ed tr	Chicken Pox Morning Sickness	# 61 01 to 00 to	6 % 10 10 10 10 10 10 10 10 10 10 10 10 10	
advis	Toxacmia of Pregnancy	0	6 1 1 1 1 1 1 1 1 1 1 1 1 6	
ents	Vitamin Defliciency Breast Abscess	N 12 1 F1 1 1 1 P 2 P 1	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
pati	Debility	E 4 32 0 1 5 0 . 7 7 0 0	1 2 2	
and	Neuritis -	25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 1 16 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
nosou	Skin affection	204::400::000	1.67 : 8 : 12 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	
diag	Asthma		271 2 10 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10	
aney	Ulcerated Vulva		24	
ailmente of Pregnancy diagnosed	Scanty Urine	and a contract of the second	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
te of	Eclampia Eclampia		\$22 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Imen	Malaria	wwww.ww. : : : :	142 1 1 2 2 1 1 1 1 1 2 2 2 1 1 2 2 2 2	
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stere	Diarrhoea.		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Showing Pre-Natal cases registered and diseases and	aimean.		29 4 29 4 29 4 29 4 29 4 29 4 29 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
1 20	Constipation	128 148 148 148 148 148 148 148 148 148 14		DIND A
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RE	- 26 Teynampet	н .	Agar	
CHILD WELFARE	97 78	Fondiarpet Royapuram Washermanpet Sanjiviroyanpet George Town Muthialpet Trevalyan Bazin Kothawal Bazaar Park Town Maternity Home, Ghoolai Sembiam North Perambur	Kilpauk Kilpauk Chetyet Egmore Saidapot Periamet Triplicane Mrashibpet Mylapore Royapettah Mandavalli Adyar Thyagaraya Nagar	
WE	Centre	Tondiarpet Royapuram Washermanpet Sanjiviroyanp George Town Muthialpet Trevalyan Baz Kothawal Baz Park Town Maternity Hot Choolai Sembiam North Peramb	Kilpauk Chetpet Chetpet Saidapet Periamet Triplicane Mylapore Royapettsh Mandavalli Adyar Teynampet Thyagaraya N	
III.D	The state of the s	Pondiarpet Royapuram Royapuram Rashermat Sanjiviroya George To Muthialpet Trevalyan Kothawal Park Towr Maternity Choolai Sembiam North Perr	Furasawa Kilpauk Chetes Egmore Peramet Triplicut Mirashib Mylapor Royapett Mandava Adyar Toynamp Thyagara	
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A	1		Other Diseases	0 1 1 2 0 8 1 1 0 8 1 1 1 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1	9 61 25 1 1 1	122
	1	31	Scang Urine	CENERAL SECTION ENGINEERS IN THE PROPERTY OF T	india i i i	व व
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NE B			Oqems	1+1188111811821-101104	8 - 9	
TE			Asthema	ALTERNATION DEPOSITE DESCRIPTION OF THE PROPERTY OF THE PROPER	1 1 - 1 1	132
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	8	c.	Lacer Perincum	81218288 885 1 1 1 8	who greeners	
	ĸ		Debility	- 2 : 2 : 3 : : : : : : 3 2 2 2 1 1 2 2 2 1 2 3 2 3 2 3 3 3 3 3	2 + 2 : : :	240
		2	Skin Disease	1 2 7 3 7 1 2 1 7 2 1 3 1 7 1 1 2 2 2 2 1 3 1 2 1	9 4 00 : :	300
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	٥		Gastrias	12 19 18 11 112 14 7 1111 4 8 8 4	172111	173
	۰		sorpunef		of Pregnancy	13
	H		111111	Drough A	CHOOSE	643
	ı	CF.	After pains	Con to Williams	Demogney.	
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	u	-	Ulcerated Vagina	F1:11F1111517111F11	11111	10
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EL	10		Centre Court	The state of the s	ni n	bod
M		-		Tondiarpet Royapuram Washermanget Sanjiviroyanget George Town Muthialpet Trevelyan Bain Kothawal Bazaar Park Town Maternity Home, Choolal Sembina North Perambur Pallanthope Ripauk Kalpauk	Royapettah Mindavalli Adyar Teynampet Thyagaraya Nagar Ayanavaram	202
3		18		Tondiary Royapur Washerr Sanjivire George Muthial Muthial Muthial Material Sembian North P Pullant Purasaw Kilpauk	Royape Mindav Adyar Teynam Thyaga	
CHILD WELFARE	0	-			111	
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STATEMENT No. VI-A

T	No. VI-A)	under the	among cases care of Chile it not under	d Welfare	Deaths a cases brounder the	ought"
No.	Centre	Under Private Doctor	Under Vidian's treatment	In Hospital	Child Wo Scheme an treatn.e the Child Scher	elfare d under nt of Welfare
21	Tondiarret	18		3	l'ondiarpet	1 8
22.	Royapuram		t	2	mampayiii	
1 3	Washermanpet			1	naorroda, W	
14	Sanjiviroyanpet		and !	1 jag	Sanjivirovan	1
1 5	George Town	a			woT man 1	
8 6.	Muthialpet	A	i testa	1	Jonaldin 2	
8 7.	Trevelyan Basin			3	Trevelyan I	7
. 8	Kothawal Bazaar				Körnuwar B	
9.	Park Town	no set		2	man't Town	6
10.	Maternity Home, Choolai			4 mol	i Choolai	
11	Sembiam	11		2	Choolat	II ha
. 12	North Perambur	-1			North Peru	
13	Pulianthope	I		2	Pulianthop	13
14	Purasawalkam	1	1	4 ma	Purasawall	
15	Kilpauk		S		Kilpank:	
16	Chetpet				Chatpet	
17	Egmore	1		2	Egricons and	11 8
18	Saidapet			3	Saidapet	
19	Periamet			1	Parismos	
20	Triplicane		4	2	Triplicano	
21	Mirsahibpet			1	Mirsahibpe	
22	Mylapore			1	Mylapore	
23	Royapettah	2 200	3	1	Royapottal	
24	Mandavalli	17	1 200	2	ilavaliani/	
25	Adyar		1	1	anythe.	
26	Teynampet			1	Teynampe	
27	Thyagaraya Nagar				T. Nagar	
28	Ayanavaram			1014	Ayanavarı	
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STATEMENT No. VI-B
Showing the causes of death among cases brought to the notice of
Child Welfare Scheme (Vide Statement No. VI-A)

	1,000	Child We	elfa	re	Sch	eme	(V	ide	Sta	ten	nen	t N	o. V	I-A	()			
11	No.	ond agency on the land of the land on the land of the	Cerebral Thrombosis	Eclampsia	Adherent Placenta	Abvanced Aneania	P. P. H.	A. P. H.	Caesarean	Sepsis	Obstructed Labour	Diarrhoea	Poxaemia	Post operative Shock	Dysentery	Heart Failure	P.P. Eclampsia with Heart Faiure	Total
	1	Tondiarpet	1	1												. 1	τ	3
	2	Royapuram			1.					1				.00	74.5		05	2
	3	Washermanpet					ı							110			78	1
	4	Sanjiviroyanpet			1.								. 7.0	20.4			81	1
	5	George Town		1				٠					A	Yes.	1. 2.		00	1
	6	Muthialpet					1 1							.120		. 1	48	3
	7	Trevelyan Basin		1					111					1.1	4.	. 2	TT	3
	8	Kothawal Bazaar											4 50			.lio	48	
	9	Park Town		1					1					117.	0.20	22.0	10	2
	10	Maternity Home, Choolai		1	1	1	. 1		1			2018					70	5
	11	Sembiam		1					1	1								3
	12	North Perambur		2						1						. 1		4
	13	Pulianthope			1.			1.										2
	14	Purasawalkam					. 1	1.			1	1	400		1/3 1/4			4
	15	Kilpauk													1			
	16	Chetpet															-31	
	17	Egmore								1			1		010			2
	18	Saidapet			1.								. 1	1.		1		3
	19	Periamet													900	1	1 01	1
	20	Triplicane		1										97	1	1	09	3
	21	Mirsahibpet			1.										1	11/	18	1
	22	Mylapore		2				1.							000	1/1/		1
	23	Royapettah								1				att	90 0	108	23	1
	24	Mandavali					1							ita	24/11	. 1	1.8	2
	25	Adyar					. 1								10	TO A	25	1
	26	Teynampet											. 1	901	Lan	T	26	1
	27	T. Nagar							-			1099	17	7.4		d	72	•••
	28	Ayanavaram													-	44	20	
	- 0	44 1	1	9	6	1 3	3 4	3	1 2	5	1	1	1 2	1	1	1 6	1	50

NH I	1 1	Number of	when one year	142	621	747	619	866	899	1046	008	288	1100	674	685	798	1028	274	800	670	547	495	1262	T89	575	009	68	179	1111		-	16776
STATEMENT No. VII		Leff City	otherwise not Traccable	16	18	18	450	63	65	88	Te	IO	22	22	13	67	15	67	-14	20	4.2	91,01	37	13	-	20	10	9		-		709
STATI		Total Number of	Dosth excludit Still Bird	17	104	-83	201	12	7.9	100	15	24	88	68	20	62	67	- 131	44	- 62	53	66	81	98	19	92	22	98	110	-	100	1428
S year after birth		10 to 12 Months	doN oldanastT	138	10	6	19	90	6	+	00	-	8	16	9	419	9	:	71	10	00	4	-	9	00	8	-	-		:	-	165
rear a			Desths	63	16	-	122	6	10	-00	.04	10	00	00	9	14	11	01	*	10	9	16	17	30	9	18	9	00	:	-	3000	536
one		7 to 9 Months	Not Traceable	-	01	-01	10	.00	01	60	9	C4	4	16	01	13	04	1	+	*	10	10	6	00	100	10	93	į:		-	THE THE	110
of	-	7 to 9	Dostbs	9	90	01	60-	00	00	10 I	10	1	18	9	-	10	9	C4	9	14	6	19	=	120	00	-	10	00	:	:	or out	217
a period	12	Months 4 to 6 Months	Not states	.01	.01	-	10	t-	6	6	00	-	4	16	00:	00:	00	-	11	10	9	.00	-	-	-	18	*	-	:		23,000	115
	within	4 to 6 3	Doaths	- 2	98	.0	4	10	14	13	04		14		8	16	10	9	6	21 24	11	00	11	01	13	13	00	9	:	1	St. Dags	886
rvation	Died w	fonths	Traceable	-	+		1	-	14	10	+		00	E-		1	1	1	4		04.	7	OI.	i	i	00	:	:	:	:	TOTAL S	64
opseu		2 to 3 3	Desths	-	00	-	9	6	139	12	7	G4	t	.00	11	11	10	9	t-	9	-	12	12	10	6	00	04	4	:	:	des test	168
under	12	100	Traccable	-	:		:	63	t-:	10	-		10	12	:			-	-	-	01	01	9	1	1	-	:	1	:	:	1111	43
and kept under observation for	3	8 Days to	Donthe	- 1.	10	10	E-	12	18	10	G1_	04	6	-	00	8	t-		9	9	6	10	7	01,	10	te s	04	00	:	:	OF OR	155
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ar 1947	3	1 to 7	Deaths	00	14	14	21	27	16	42	:	2	01	00	15	80	10	6	120	12	=	31	98	10	16	99	150	-	:	:	and a	414
in the year		Tumber of	Births in 1947	R 00 5	88	21:	60:	50	8	98	10	80	8	88	31	46	23	13	17	50	25	17	60	13	17	24	0	0			State Paper	499
Showing infants born in		Total	11.64	183	771	822	163	1156	104	1215	331	427	1260	818	677	1058	1110	914	384	791	667	627	1403	694	647	191	100	213			Cardinos Ol G	18419
ing ii	2.7	A I	THE PARTY	Bar	000	107	100	- ALC	3710	8.04		The same			1700		-	6	-	121	100	100	-	100	130		:		:		off the	
	1 1				-	-	-			-		There's																	-			
CHILD WELFARE	Legislandist	The state of the s	Centre	Tondiarpet	Royapuram	Washermanpet	Sanjiviroyanpet	George Town	manual pos	Voltana Dasin	Deel Water	Material World	Statestilly Holme,	Semblam	North Perambur	Pullanthope	Purasawalkam	Kilpauk	Chetpet	Egmore	Saidapet	Periamet	Triplicane	Mirsahibpet	Mylapore	Koyapettah	Mandavalli	Adyar	Thungarava Nucar	Archororam		TO-MEDEARE
CH	77.77	3	04	IS	04	60	*	0	9	-	0	6	10	11	201	13	14	15	910	11	18	19	08	77 6	20 0	9 0	2 0	9 8	8 6	86		THE L

	when one year old.	142	747	649	268	9101	290	990	674	989	298	023	309	029	547	495	1262	189	175	009	283	179			15776
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No.	Left the city or other- wise not tracoable	16	18	37	20	33	16	10	11	13	67	15	11	20	45	16	37	13	100	21	10	200			200
STATEMENT	Total Deaths excluding Still Births	17	32	3	75	100	15	75	30	0:	64	64	22	70.	601	66	81	92	19	94	8	56		1 1000	1428
AT	Courses Unknown		1 1	1-	: 0	E-	-	1	* :		9	1	: "		- 1	+	1	-	70	-	100	:	:		251
ST	Pre-Maturity Infantile Paralysis	-	1 1	1			1	:	:		-	1	:		-	60	1	1	1	Ė		-		1 11	100
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kept under observation during 1st year of life	Rickels	-10	1 01	7	01 0	-			:	:	c1	-	: 1	-	:	1	:	:	4	-	100	100	:	10	12
lst y	Whooping Cough		4 5	:	C1 4	-	:	:	1 1	-	:	- 0		1	04	1	69	1	00	7	1	:	:		4 23
1 80	Chicken-Pox	1	1 1	1	10	: 1	100	- 82	:-	-	61	5-	:		- :	-	-	4	10	-	-	1	-	1 1	
luri	Measless	61	1 1	:	1 0	-	:	:			1	1	17	1		:	1	:	-	-	1	-	:	: 3:	14
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and	Indigestion	1	: 1		: 0	- 1	- 1	-	:	1	10	1,	: 0	. :	-			20		-	:		-	10	10
kept	Pacumonia	C1	: :	. 1	01	. 04	:	:	ea .		1	-	1	-	4	1	01	:	#1	-	1000	7		13	34
and	Constipation	1	1 1	1	: "	:	-	:	-	1	1	:	: -	-	1			to	1	në.	=	1	:	100	10
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8 II II	Dysentery	- :0	C1 .	61	9 0	. +	. 1		O1	01	+	-	1	1	60	-	1	1	+	-	1	1	1	1 7	33
orn	Convulsion	01	= -	01	. 0	e 04	00 1	10		01	+	04	-	10	+	-	1	10	*	-	+	es.	1	1 81	73
ts b	xoq-llam2	:	: :	:	01		-	+	*	1 1	+	1	4	6	:	1	:	16	i	113	-	1	:	1 21	11
infar	Skin affection	8-10	- 01	1	10	0 0	1	-	10	0 0	6.0	1	:	-	CI	-	0.0	:	Č1	-	-	-		13	9
among infants born in 1917	Pever	10	50 00 00	9	0 0	13	1-	:	+ 1		17	# "	14.	: #	11	65	16	98	65	25	13	00	-	1 100	315
29	кэолткіО	00	98	1-	6	13	10		52 -	101	18	16	+ 0	16	13	13	20	15	63	212	*	CB .	-	181.	261
es of de	Died within 10 days	60	± =	13	27	3 2	:	15	58 =	12	20	10	10 01	3 25	11		30	1000	- 1	- B		1-		I di	422
caus	Still Born	00	55 55 55 55	23	200	36	10	90	20 00	31.	7	53	13	3 25	255	17	23	13	17	55	6	6		Dog b	499
Showing the causes of death	1 10 dmga leto'l'	183	771	763	11156	1215	331	427	1260	770	10:8	1110	314	161	199	627	1403	169	617	17.1	+37			of gow	18412
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CHILD WELFARE	Centre	Tondiarpet	Royapuram	Sanjiviroyanpet	George Town	Muthialpet	Kothawal Bazaar	Park Town	Maternity Home, Choolai.	North Perambur	Pulianthope	Purasawalkam	Kilpank	Esmore	Saidapet	Periamet	Triplicane	Mirsahibpet	Mylapore	Royapettah	Mandavalli		Teynampet	Ayanavaram	
CH	ò	W.B.	C4 67	I.P	20	0 1-	8	6	10	1 21	13	14	97 55	9 5	18	19	20	21	55	23		33	30	R 8	

CHILD WELFARE

Showing the total number of attendance of priority milk consumers from 1st January to 31st December, 1948

	from 1st Jai	nuary to 3	1st Dece	mber, 194	8	23000000
No.	Centre	Expectant Mothers	Nursing Mothers	Infants	Toddlers	Total
1	Tondiarpet	3647		9504		13151
2	Royapuram	3619		9171		12790
3	Washermanpet	5012		9106	3100	14118
4	Sanjiviroyanpet	3750		7237	1 195	10987
5	George Town	3497		9640	1	13137
6	Muthialpet	3541	18.5	9335	1 1.15	12876
7	Trevelyan Basin	3664	1 3.1.	9512	1 8	13176
8	Kothawal Bazaar	3640		9484	1	13124
9	Park Town	3640		9464		13104
10	Maty, Home, Choolai	3560	31	9208	13	12812
11	Sembiam	4376		8768		13144
12	North Perambur	3540		9072		12612
13	Pulianthope	2919	3710	9064		15693
14	Purasawalkam	3658	4316	9523		17497
15	Kilpauk	3580		9108		12688
16	Chetpet	3653		9499		13152
17	Egmore	3664		9508	1	13172
18	Saidapet	3608		9362		12970
19	Periamet	3664		8072		11736
20	Triplicane	3664		9512	20	13176
21	Mirsahibpet	3573	1 3 3	7275	1	10848
22	Mylapore	2342		9109		11451
23	Royapettah	3664		9512		13176
24	Mandavalli	3632		9359		12991
25	Adyar	3616	12.13	9416	-	13032
世界	8055555555	90723	8057	227820	13	326613

		LOS IN TOTAL	6673	7545-	0004	6405	7817	4575	1960	7214	9850	1925	3116	5675	1591	6397	5206	6816	8530	5985	5080	6540	I	OHO.	183490
		Other Diseases	4998	9319	1758	386	6282	1846	3018	407£	615	2598 1	2045	8000	20.36	6998	1000	11.67	2804	1682	2305	2867	2:	11	57508 183490
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		Vitamin Diffici-			The state of		1	THE REAL PROPERTY.		D4		No. of London		:	:		107	d'an	0	-		-		14	100
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		Syphilis	1		PODE		1	00 ° 00			18	-			:	:	9	: :	01	I I	ili	00	E:	1 :	40
		altalald	88	109	2010	240	32	26.	77	10	010	80.	200	10	80	116	98	1 -	88	THE STREET	T.	88	1	1 :	1941
clinic	Treated	Est & Eye Diseases	128	15 55	814	225	63	6 %	138	96	578	199	893	122	21	172	57	34	180	127	107	633		11	5416
the out-patient clinics	Diseases	AS18 slimesuA	164	785	2557	445	818	300	140	213	2018	700	154	00	609	477	337	891	651	809	410	168	3	11	11661
out-p	Di	948@amoullnI	261	552	888	719	1308	1190	965	106	1730	37.36	1090	669	293	710	706	758	736	707	716	298	111/	11	19826
at the		monoogy ungs	308	290	080	683	673	116	0,0	187	836	1846	675	195	867	201	679	499	589	516	910	535	1	Ę. I	12527
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		10 kiojezidson.	493	1051	1612	1601	1872	1071	2123	1158	952	2557	813	741	1749	870	1304	1711	1797	1000	965	986	1	61	1000
ers and	ogapo	netth LatoT busy	92758	21868	17989	31509	28793	19535	29924	27.280	31838	20084	17377	22306	24,196	19373	31679	81685	18977	16661	18149	23719	1	tops -	622952
mothers	90 U	rabustia blo lateT		28183	11585 5001	1019	90000	14958	11931	10006	12502	19181	10580	16631	16815	12981	18839	25069	10547	10576	18069	17159	ė	III.	439462
nursing	90 tt 1	abnest A wek fatoT		9103		6405	7817	45775	7967	721.5	9336	11925	6817	5675	7591	6397	5206 State	9180	8830	5985	2080	6850	4	ter	183190
and n		DIO TOURS	2000	8119	4196	7128	7216	8008	7619	7439	6169	1989	8751	5013	6037	4933	4088	6909	8988	2990	4715	6176	3	BE	145960 183490 439462 622952 34351
	Attendance at Clinica	Nursing Mothers Mollo	2541	1888	9786	1917	2714	1696	3014	8119	3873	4259	3530	1881	2697	9996	1015	1998	3435	1939	2152	2517	-	11-11	_
exbe		the state of Pio	4508	6102	9307	9328	7701	8819	9127	5817	6667	4600	2043	4130	1090	4836	7080	9616	27.98	3967	8200	3381		10 4	131358 67723
nce of		New New Old	1318	1642	1004	1718	2278	767	2207	1395	1531	9774	748	1163	1681	1629	985	1839	1469	1780	764	519	4:	194	87918
Showing total attendance of expectant			1440	1871	1948	1906	1419	983	9308	931	1562	7567	2002	1919	1811	103	1431	1548	889	189	1038	8418	2	1,1	34335
otal a	Atto	New 11230 Pre-	1131	1153	1337	888	762	890	1001	717	1571	18518	2000	1328	1068	246	1110	986	1626	635	186	2138	-	101	
wing t		_ or 13176	1631	8850	3153	6852	4610	8420	2910	5879	7804	5051	2735	5510	5407	3130	5695	8289	3102	3032	3815	1204		1 1	127809 \$3929
Sho		201 181 MoN		2686		1885	2063	1879	1688			85014		1631	2150		2550		0000	.3611	1238	1366	: 4	12	48921
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		1296		1	9512		in		Maternity Home Choolai		108	3	-										B	285	7
			rpet	menne	Town	Ipet	an Bas	own own	ity Ho	III	Person	Purasawalkam	24	-		20	101	ibpet)ro	strah	valli.	In?	nod a	Ayanavaram	
		18088	Tondiarpet	Wahsermenpet	Sanjiviroyanpot George Town	Muthislpet	Trevelyan Basin	Rothwal Barnar Park Town	Matern	Sembiam	North Perimbur	Parasa	Kilpank	thetpet	Sgmore	Saidapet	Triplicane	Mireahibpet	Mylapore	Royapettah	Mandavalli	Adyar	Thursday	Ayanavaram	
-		328613 No.		9 00	410		_	0 0	10	11	12	1		16	1	18	20	21			24	55 55			1

4	1													89																		
FORM	aternal	Morbidity	Morbidity	107	346	182	253	200	254	164	131	105	423	824	109	903	271	36	173	331	211	240	388	399	*6	1001	132	234	:		:	8361
	, M	Mo	Mortality	63	C.0	-	1	1	60	60		03	10	60	+	01	+	:	***	cu	63	-	60	-	-	-	0.8	1	-	:		80
			Narsing ersdroM -	2103	8479	11999	7282	12309	0006	9930	5575	5207	10633	82201	10342	11140	13491	6271	9029	8734	7588	2603	8793	8082	739+	4919	2989	8693	:	:	:	213682
		91	Number	158	359	156	156	359	156	157	151	356	307	156	156	156	991	157	157	156	157	159	157	157	157	157	157	157	:	:		1994
			Pre-school	2571	2524	1174	2485	4333	2791	2181	1417	1872	3329	1638	3133	3955	2429	4092	3177	2374	3+6	2541	1372	2538	2214	1219	1970	2556				63264
	Clinica	dane	Number	158	359	156	156	359	156	157	101	326	307	156	156	156	156	157	157	126	157	159	137	157	157	122	107	157	:	:	:	4667
	CII	Atten	stastal	6314	6347	11036	4921	2130	8737	6703	4833	7840	4598	7862	10165	10232	8426	4224	7131	7557	4976	7291	11783	10228	5102	9294	2048	2220	:	:	:	176730
1948			Number	158	359	156	156	359	156	157	151	326	307	156	156	156	156	157	157	156	157	159	157	157	157	157	157	157	:	:	1	2994 9
al Return from 1st January to 31st December, 1948			fateN-stnA	5826	7513	8326	3301	11568	10941	6266	4948	4616	11334	7222	8188	4717	6924	2790	5292	5771	6465	4610	9730	11037	4267	5747	+50+	3990	:	:	:	169276
			Number	155	726	157	100	156	126	126	151	156	307	156	126	156	156	157	157	726	157	157	126	127	157	157	157	122	:	:	:	4055
	Brought under care	rives	P.N.	4811	7554	12531	8254	17522	7346	12669	2038	4744	13807	6178	6933	12306	13060	4026	4350	7237	999	7232	16991	8963	6526	2736	4834	3797	3880	2030	:	212730
Januar		Midwives	.A.N.	1905	755	2226	390X	1575	4453	6443	1443	632	1689	813	2943	1687	5788	189	837	0+4	- 1649	746	2487	2106	1109	1910	833	6613	1040	800	:	57908
from 1s		Heath Visitors	P.N.	2902	8124	7278	10894	0266	5398	9245	6343	9362	2783	4197	6887	10102	8149	2244	278	4904	1199	5380	8612	7712	8830	5374	3749	3923	:	:		159250
totura		Heath	A.N.	5107	1843	3500	2566	2168	6397	1548	1000	831	2267	2414	4786	2129	3488	1997	3254	4052	1572	2140	3733	3751	4182	2241	2466	3573	:	:		72581
Annual F		dical	Women Medical		1169	1313	110+	1215	666	1379	837	1053	527	1135	1188	1157	1259	546	1266	1256	1254	990	1149	1191	1221	1192	1083	1254	:	1	-	28378
An			Pre-School		621	240	649	866	268	1046	290	385	1100	674	683	298	1023	274	309	029	244	493	1262	687	575	900	383	179		:	1	25361 15776
	Bro		Labour		795	1529	116	1402	834	1535	679	459	1937	1097	1075	1345	1636	541	713	879	1063	089	1664	959	782	624	200	395	378	198	80	
					818	1570	986	1431	856	1576	528	468	1974	1117	1118	1393	1658	699	726	897	1095	700	1713	983	812	643	517	422	388	203	83	37918 26051
	3		IstaN-staA	1318	1642	2224	1004	1803	17.18	2278	893	767	2207	1395	1521	1774	2264	748	1162	1681	1629	985	表	1839	1469	1780	764	519	:	:	1	37918
		sesses moder en	Maternity cases Total Number eradioM lo		1843	2523	1203	2168	1731	2381	1006	831	2267	1627	1776	2129	2362	765	1195	1932	1740	1001	2873	1840	1471	1877	269	593		:	1	41501
			-	-		:	:		:			oolai	:	:	1				:		:	:	***	:		:	:	:		1		
CHILD WELFARE		Centre	Tondiarnet	Rovannram	Washermannet	Sanlivirovannet	George Town	Muthialnet	Trevelvan Basin	Kothawal Bazaar	Park Town	Maternity Home, Choolal	Sembiam	North Perambur	Pulianthone	Purasawalkam	Kilnank	Chetnet	Egmore	Saidapet	Periamet	Triplicane	Minahibpet	Mylapore	Rovapettah	Handavalli	Advar	Teynampet	Thyagaraya Nagar	Ayanavaram		
OHIL			o _X	1 -	1 01	. 00	+	10	9	-	90	6	10	11	12	13	. 14	15	16	17	18	19	30	21	53	53	70.0	17	36	27	98	



