Contributors

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CORPORATION OF RANGOON.

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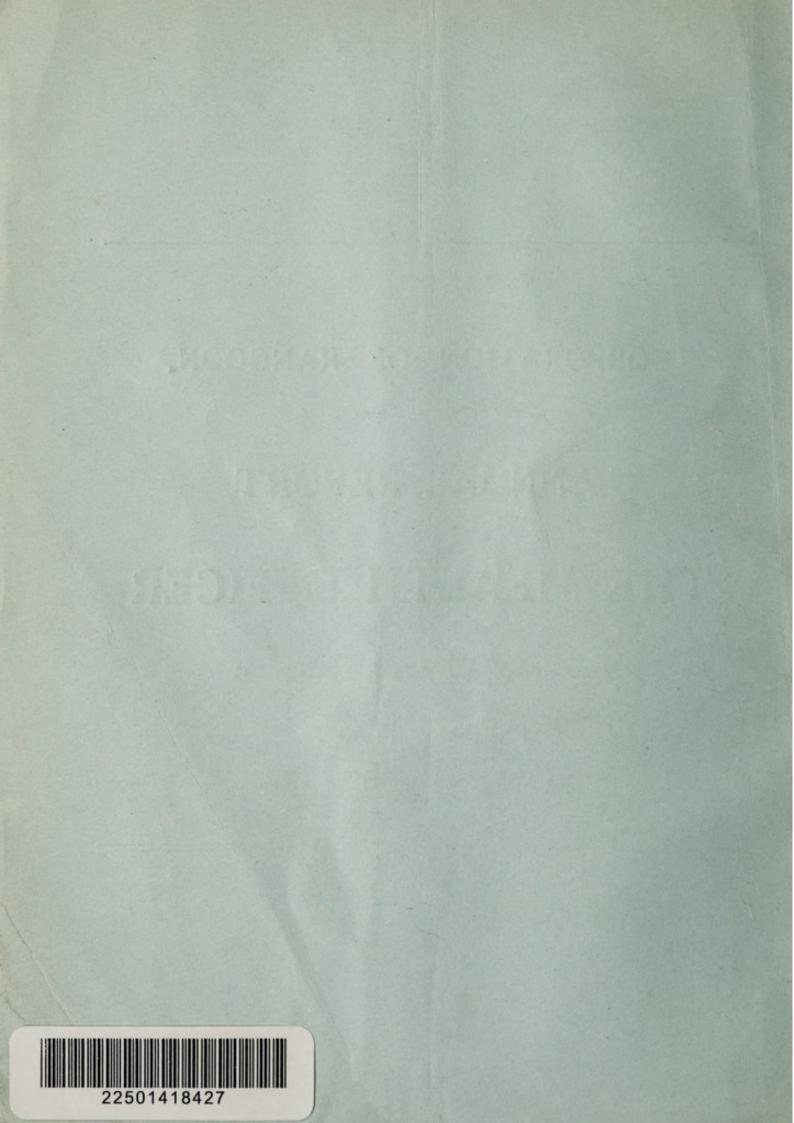
ANNUAL REPORT

THE HEALTH OFFICER

For the City of Rangoon

For the year 1930.

THE BURMA GUARDIAN PRESS.



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THE COMMISSIONER,

CORPORATION OF RANGOON.

SIR,

I have the honour to submit my Annual Report on the Sanitary Administration of the City of Rangoon for the year 1930, together with the Vaccination report for the official year 1930-31, the reports of the Medical Officer, Contagious Diseases and Observation Hospitals and the Analyst's report, on the working of the Laboratory, for the year, 1930.

I have the honour to be,

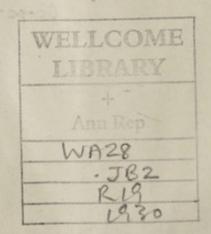
SIR,

Your most obedient servant, K. R. DALAL, L.M. & S., D.T.M., D.P.H., HEALTH OFFICER, Corporation of Rangoon.

HEALTH OFFICE, The 26th May, 1931.

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2°60 2014 May, 1931.

SUMMARY OF STATISTICS. FOR THE YEAR 1930.

		Concession of the local division of the loca	1			
Population by the Census of 1921						3,45,505
Estimated Population for 1930		0.00		**		3,91, 058
Area of the City of Rangoon					10·40 s	q, Miles.
Number of live births registered			•••			7,974
Birth-rate per 1,000 Census Population	1 100	**				23 .08
Number of deaths				30+	800	9,541
Death-rate per 1,000 Census Population		300	***	***		27.61
Death-rate per 1,000 estimated Populati	ion		***			24.40
Number of deaths amongst infants under	r one ye	ar				2,218
Infant death-rate per 1,000 births			•••		***	278-15
Plague-Number of deaths from						38
", Death-rate …						0.11
Small-pox-Number of deaths from						15
" Death-rate		•••		***		0.04
Cholera-Number of deaths from						22
" Death-rate				,		0.06
Influenza-Number of deaths from						13
" Death-rate				***		0.04
Tuberculosis-Number of deaths from						761
,, Death-rate						2.20
Respiratory Diseases-Number of deaths	s from					1,967
" Death-rate						5.69
Cerebro-Spinal Fever-Number of death	s from					5
" Death-rate …						0.01
Beri Beri-Number of deaths from						73
" Death-rate …						0.21
Diphtheria-Number of deaths from						8
" Death-rate …						0.03
Cancer-Number of deaths from						35
" Death-rate …						0.10
Puerperal Septicaemia-Number of deat						31
" Death-rate						0-09

ANNUAL PUBLIC HEALTH

REPORT

For the year 1930.

Climatic Conditions.

Details of Meteorological data for the City of Rangoon are given in the Statement attached to this Report.

The total rainfall amounted to 110.93 inches showing 5.47 inches higher than the average for the previous five years and 12.62 inches higher than the rainfall in 1929.

Area & Population.

The area of the City is 30.40 square miles including the Rangoon and Pegu. Rivers and the Pazundaung Creek.

The 1921 Census gives the population of Rangoon as being 3,41,962, a decennial increase of 48,646. In October 1924, a portion of Kamayut with a Census Population of 3,543 was included within the Corporation limits, making the total Census Population of the City of Rangoon 3,45,505.

The Estimated Population for the year 1930 was 3,91,058.

Births & Birth-rates.

The number of births registered during the year was 7,974 of which 4,002 were males and 3,972 females as compared with 8,265 (males 4,288, females 3,977) in 1929. The birth-rates for the years 1930 and 1929 on the Census Population were 23.08 and 23.92 respectively. The birth-rate calculated on the Estimated population of 1930 was 20.39. The highest birth-rate was recorded in the Newly Added Area, namely 54.76 while the lowest was in Cantonment, namely 6.49.

Male births exceeded female births in the proportion of 100.76 to 100.

The following table gives the number of births and birth-rates for the various communities:-

Communities.	Numbe	r of births.	B	irth-rates.
Burmese		B,048	124	28.88
Hindus		2,458		19.57
Mohammedans and Malays		1,052		16.95
Chinese and Panthays		731	13.0	30.31
Anglo-Indiana		312		87.49
Europeans		74		18.79
Other Classes		299		18.79

The following Statement gives the birth-rates in different circles per 1,000 female population (Census) at the child-bearing period between the ages of 15 and 45 for the years 1929 and 1930 :--

Circles.			1930.	1929.
Newly Added Area		TOLL OF DAL	285	195
South Kemmendine			189	215
Botataung			169	137
Dala			160	173
South-West Town	initere and	orica angaste	157	169
South-East Town			155	117
North Kemmendine	ion en Ra	ring	152	137
Tamwe	19.15.01	edabo ai	146	188
Theinbyu		di lottoitai	144	134
Kanaungto			134	112
North-West Town			119	88
Taroktan		Birthme & Bi	115	84
Lanmadaw			112	115
Yegyaw		EG 000	101	180
North-East Town) mest	di tal. sett	89	88
Cantonment			39	28

Techales en Ceraus

Still-births.

630 Still-births were recorded during the year. 283 of these were of Burmese parentage, 196 of Hindu parentage, 95 of Mohammedan and Malay parentage, 31 of Chinese and Panthay parentage, 10 of other Classes (including 1 death of which race was unknown), 11 of Anglo-Indian parentage and 1 of European parentage.

The percentage of Still-births to the total births of the different Communities works out as follows : --

Communities,	Number of births.	Number of Still- births.	Percentage of Still-births to births registered.
Burmese	3,048	286	9.38
Mohammedans and Malays	1,052	95	9.03
Hindus	2,458	196	7.97
Chinese and Panthays	731	31	4.24
Anglo-Indians	312	11	3:53
Europeans	74	1	1.35
Other Classes	299	10 •	3.34
° (including 1	in which race w	as unknown)	distantini ne dživy sr
	7,974	630	7-90
	D (STATES THE STATES	and the second s

Out of 630 Still-births, the confinements in 262 cases were supervised by unqualified Midwives or relatives.

Deaths and Death-rates.

9,541 deaths (males 5,878, females 3,662 and 1 of which sex was unknown) were registered during the year as against 10,980 (males 6,737, females 4,243) in 1929, a decrease of 1,439.

The death-rates on the Census population for the years 1930 and 1929 work out at 27.61 and 31.78 respectively. The death-rate on Estimated population for the year 1930 was 24.40 as compared with 28.43 in 1929. Of the total deaths, 523 occurred amongst individuals not normally resident in Rangoon but who had come to Rangoon during their final illness and died in Rangoon.

If this number be excluded from the total number of deaths registered, the death-rate for the year on the Estimated population would be 23.06.

The number of deaths registered and the death-rates for the past five years are given in the table below :---

Year.	Deaths.	Death-rate on Census Popula- tion.	Death-rate on Estimated Population.
1925	12,373	35.81	33.90
1926	12,231	35.40	33.04
1927	10,851	81:41	28.91
1928	11,690	38:83	30.71
1929	10,980	31.78	28.46

The number of deaths and death-rates on Census population for the various. Communities were as follows:-

Communities.	No. of deaths.	Death-rate.
Burmese	3,288	31.16
Hindus	3,302	26.28
Mohammedans and Malays	1,418	22.85
Chinese and Panthays	847	35.12
Anglo-Indians	179	21.50
Europeans	44	11.18
Other Classes (including		
17 deaths in which race		
was unknown)	463	29.10

Infantile Mortality.

2,218 infants died before completing their first year of life, giving an infantile mortality rate of 278.15 per 1,000 births as compared with 2,623 infant deaths with an infantile mortality rate of 317.36 in 1929.

1,733 of these deaths occurred among infants born within the City and the remaining 485 of infants born outside Corporation limits.

A large number of children born outside the City limits are brought intothe town every year for which no record is available.

If the 485 infants born outside Corporation limits be excluded from the total number of infants who died before reaching their first year of life, the infantile mortality rate for the year under report would be 217.31 per 1,000 births.

Of the 1,733 deaths of infants referred to above, 1,070 confinements were attended to by unqualified Midwives, 359 by qualified persons, 159 by the Maternity and Infant Welfare Society and the remaining 145 were confined at the Dufferin Hospital.

In the year 1929, 8,265 births were registered in Rangoon Town. Enquiries into the deaths of such of these infants dying before completing their first year of life showed that 1,890 of them died. The mortality rate works out at 228.38. Of these 1,890 infants, 807 died in the first month, 342 in the second month, 319 in the third month, 123 in the fourth month, 66 in the fifth month, 44 in the sixth month, 42 in the seventh month, 42 in the eighth month, 41 in the ninth month, 24 in the tenth month, 25 in the eleventh month and 16 in the twelfth month.

The following statement gives the causes of infant deaths, their number and infantile death rate per 1,000 births in different Communities for the year 1930:-

1,000	1,000 births	s in diff	Ferent	Communities		101 1110	year	1300.			m	
Cause of Death.	Hindus.	Moham- medans and Ma- lays.	Burmese.	Chinese and Pan- thays.	Shans.	Karens	Euro- peans.	Anglo- Indians.	Jews.	Armen- ians.	Other Classes.	Total
Premature Birth	143	58	146	41	:	:	t	9	:	:	9	401
Malnutrition	82	32	72	12	:	:	:	53	:	:	5	205
:	141	61	254	41	:	3	:	7	:	:	19	544
Bronchitis & Pneumonia	171	72	167	54	:	2	61	7	:	:	410	516
	30	19	28	3	:	I	:	2	1	:	3	18
Diarrhoes and Dysentery	59	21	41	11	:	6	:	3	:	:	15	153
Obstruction of Bowels	23	6	12	1	;	:	:	1	:	:	3	69
	31	11	34	2	:	1	:		:	:	2	81
Whoming Cough		:	:	:	:	1	:		:	:	:	10
	21	60	13	1	:	:	:	53	1	:		42
		:			:	:	:	:		:	:	
	1	1	:	2	:	:	1	1	:	:	T.	7
	:		:	:	:	:	:	:	:	:	;	11:
		:	:	:	:	:	:	:	:	:	:	0.4
	23121		1	:	:	;		:	:	:	:	40
Diff.por Canada	37		57	2	;	;	:	4	:	:	91	131
10						201						ing i
Total	739	324	825	173	:	H	4	35	63	:	105	2,218
Infantile Mortality rate per 1,000 births.	300.65	307-98	270-67	236+66	:	186-44	54-05	112-18	74-08	:	92-605	278-15
• Including 1 death of which race was	death of wh	ich race v	vas u nknown	7 D .	+ 1	ncludin	g 5 death	Including 5 deaths of which race was unknown,	h race wi	as unknov	VD.	

Prematurity, Malnutrition, Convulsions, Bronchitis and Pneumonia were the principal causes of Infant deaths.

The following table shows the Infantile Mortality rate for the past six years:-

1925	 351.85
1926	 320.39
1927	 293.88
1928	 340.69
1929	 317.36
1930	 278.15

I have dealt with the principal causes of this high infantile death-rate in the Cities of the East and the peculiar living conditions found in the great mass of the labour community in this town in my previous reports and I need here only draw attention to the slow decline in the death rate of infants under one year old for the past six years as will be seen from the statement given below of the investigations carried out year after year of the number of infants born in the town and the total number of those found dead before they reach the age of one year.

1924	 270.56
1925	 265.12
1926	 212.09
1927	 220.07
1928	 220.85
1929	 228.68

Of the 7,974 births recorded during the year under report :-

1,459 were attended to by qualified Medical Practitioners or Midwives,

1,562 were confined at the Dufferin Hospital,

10

1,145 were confined at the Maternity and Infant Welfare Society Shelters,

3,781 were attended to by unqualified Midwives,

17 were attended to by friends and relatives,

1 birth was registered in Cantonment, and

9 births in the Military Police Hospital.

The percentage of confinements attended to by unskilled women was 47.63 and the percentage of confinements attended to by qualified Midwives including those confined at the Dufferin Hospital, Military Police Hospital and by the Maternity and Infant Welfare Society was 52.36. The following table gives the Summary of the conditions of births registered for the past three years with their percentage rates :---

		1928.	1929.	1930.
Potal No. of births including Still-births registered		8,009	8,941	8,604
Fotal No. of Still-births notified		583	676	630
Percentage of Still-births to total No. of births registered	12 1 1 1	7.85	8.18	7.90
Fotal No. of births excluding Still-births		7,426	8,265	7,974
Cotal No. of confinements attended by qualified Doctors			-1	.,
or Midwives		1,225	1,452	1,459
Percentage of confinements attended by qualified Doctors			* .,	-,
or Midwives		16.50	17.57	18.30
Fotal No. of children born in Dufferin Hospital		1,306	1,459	1,562
ercentage of children born in Dufferin Hospital		17.59	17.65	19.59
Fotal No. of confinements attended by the Maternity and				10.00
Infant Welfare Society		696	1,140	1,145
Percentage of confinements attended by the Maternity		000	4,1 **	1,1 10
and Infant Welfare Society		9.37	13.79	14.36
Potal No attended by friends and relatives		4	6	11 00
Percentage attended by friends and relatives		0.05	0.07	0.21
Potal No. of births registered in Cantonment		39	15	1
Concentage of histor registered in Contenment		0.53	0.18	0.01
Cotal No. of births registered in Military Police Hospital		8	11	9
Percentage of births registered in Military Police		0	11	5
Hospital	1.	0.11	0.13	0.11
otal No. of confinements attended by unqualified		0.11	0.12	0.11
Midwives		4,148	4,182	9 701
		1,140	4,102	3,781
Midualiza	13.0	55.86	50.60	17.10
Midwives		00.00	00.00	47.42

Maternity & Infant Welfare Clinics.

During the year under report the total number of births registered in the City was 7,974 and the total number of deaths registered of infants having died within their first year of life was 2,218 giving a crude infantile mortality rate of 278.15 per 1,000 births. Unfortunately, owing to the unique conditions prevailing in this City on account of the huge floating population, the births of a very large number of the infants born in this town are not registered by the parents concerned as evidenced from the large number of births detected by the Vaccinators and the Lady Health Visitors employed by the Corporation. A certain number, however, escape being registered at all and some born outside the City limits are brought in during the first year of the child's life and all deaths taking place amongst these two groups are registered in our town mortality figures though their births are not correspondingly entered in our registers. Thus the number of deaths is augmented and the figure of infantile death-rate which is calculated on the total number of births registered in the town thus arrived at does not give the true index of the deaths of infants under one year in our City. If the figures could be corrected on the above lines the actual infantile mortality rate of our City would show a much lower figure. However, even this figure would be a very high one compared to those of Cities in the West.

To remedy this state of affairs, the chief measures that have been found most efficacious are the establishment of Maternity and Child welfare Centres. This subject was first prominently brought to the notice of the Corporation in my Annual Report for the year 1923 from which I will quote here only one paragraph which gives the line of action to be taken in a concise form :-

"Every circle should have its own Maternity Shelter maintained by the Corporation for the benefit of the poor. Similarly every circle should have its own qualified Midwife to visit all the localities inhabited by the poor, give advice on the prevention of diseases and the care and up-bringing of infants, find out prospective mothers among the poor and induce them to go to the Maternity homes provided for them free, and where objected to on grounds of sentiment, religion or family conditions attend these women in their own homes during confinement and thereafter. Similarly every circle should have its own free Municipal Dispensary where the poor may be treated for illness free of cost."

This subject was again referred to by me in a more elaborate form in my subsequent Annual Reports and it has been a source of great pleasure and gratification to me to find much active and earnest interest evinced by some of the members of the Corporation in this subject.

Poverty, ignorance, insanitary dwellings, unsatisfactory living conditions and injudicious infant feeding are though the principal causes of high infantile mortality, not a little is contributed by the mother before the child is born, for the health and life of the newborn infant greatly depends upon the health, care and attendance given to the mother before, during and after confinement. The most important period of a child's life is the nine months of life prior to birth and it is during this vitally important period, that the mother's health and the child's life are at stake. This ante-natal period is practically as important, if not more, as the period following birth in preventing all causes of ill-health that lead to premature or early death of the infant. So any measures taken for the reduction of infantile mortality in this City should group themselves under the head of Maternity and Child Welfare Centres and Ante-natal and Post-natal Clinics.

The chief value of these centres is to provide medical and hygienic advice to prospective mothers and the care and treatment of the newly born infants and children. Mothers should be urged to bring their infants whether ailing or not for periodical weighing and detection of early signs of illness.

Expectant Mothers should be induced to come to the Ante-natal Clinic for the regular examination of urine, blood for Wasserman or other tests, state of health, pelvic measurements and other conditions of the mother and child. Besides arrangements should be made for the visit of the Lady Health Assistants and the Lady Health Visitors to the homes of the expectant and confined mothers who are unable for one reason or another to att and the Clinic.

As stated in my last year's Annual Report, the Corporation was pleased to sanction Rs. 6,000 for this year also for the free supply of Milk to the needy infants, children and mothers attending the Infant Welfare Centre at the Kingsley and the Forest Road Corporation Dispensaries. Though of the thousands of infants born in the town during the year only a bare fraction of them receive this much-needed free supply of milk, there is no doubt of the fact that what few children who have been the recipients of this boon and have come under our observation have been immensely benefited and any amount of money spent towards this end will fail not to confer a great boon on the half-starved, ill-fed, ill-nourished, puny babies of the great mass of the mothers hardpressed with extreme poverty and utter helpless state of their living conditions.

I would strongly urge the Corporation the very great need there is for such milk depots to be established in every circle of the town.

Under the re-organisation scheme of 1928, the Corporation had approved of the appointment of two fully qualified lady doctors as Lady Health Assistants and these Lady Health Assistants have been appointed to look after the outdoor dispensary attendance for women and children in the mornings and supervise the work of the infant milk depots and of the Lady Health Visitors besides devoting their afternoons in ante-natal and post-natal work.

The following statements will give a fair idea of the amount and nature of the work carried out by the Lady Health Assistants and the Lady Health Visitors during the year under report.

Statement showing the No. of Infants who attended the Clinics and the No. of Mothers. provided with milk during the year 1930 at both the Corporation Clinics.

	It	fants attended the Clinics.	Mothers provided with Milk
Theinbyu Clinic Forest Road Clinic		17,672 4,370	3,071 3,737
. Total		22,042	6,808

Statement showing work done by the Lady Health Assistants during the year 1930.

Months.	the invert	No. of con- finements attended.	No. of visits paid for Ante-natal work.	No. of visits paid for Post -natal work.		No. of lectures given.	No. of women and children treated at the dispensaries.
January	10.00	S notion	73	152	8	8	420
February			168	278	26	15	448
March			35	208	20	8	362
April		and any off an	32	253	39	10	415
May				100 111 901	210 9	7	240
June					30	4	316
July			102		40	7	676
August	11	Li ai ny si	15	95	18	2 8000000	652
September			71	358	57	5	2,353
October		Part Street	87	300	67		3,507
November			47	234	55	Jaoda u	4,241
December		wil attents	52	208	53	deie to m	4,876
Total	p 4.)	e a pitios	580	2,086	434	63	18,506

sorupice or for some other valid reason, it was let

Months.	elie. ebri ros-li	No. of confinements attended.	No. of visits paid for Ante- natal work.	No. of visits paid for Post -natal work.	No. of cases sent to Dufferin Hospital or to Maternity Shelters.	No. of unregistered births detected during inspection.
January		23	461	1,534	51	65
February		19	419	1,104	36	34
March		22	268	1,216	26	37
April		19	218	689	12	22
May	,	17	293	601	14	17
June		20	269	528	16	13
July		17	164	190		2
August		17	204	7 64	16	12
September		16	305	954	49	34
October		16	281	879	26	41
November		17	219	833	24	32
December		16	236	748	36	34
Total		219	3,337	10,041	306	343

Statement showing the work done by the Lady Health Visitors and Nurse-Midwives during the year 1930.

With the advent of the new rule restricting attendance at confinement cases to fully qualified Midwives only and registered under the Burma Nurses & Midwives Act, within the notified area, our efforts in this direction will have to be amplified in many other ways. From what I have seen of the work of these various centres and clinics, it is not possible to attend with any degree of thoroughness or efficiency for the two Lady Health Assistants to these three different kinds of work, viz. the fourdoor dispensary for women and children, infant milk depot and welfare centre and thirdly the ante-natal and post-natal clinics.

Under Public Health Department Notification No. 119, the Local Governmeat were pleased to extend the provisions of section 8 (2) of the Burma Nurses and Midwives Amendment Act 1927 to a certain area in the town within the limits of which no person who is not a registered Midwife shall practice as a Midwife or practice midwifery. This is known as the prohibited area and the penalty imposed under the Act is a fine of Rs. 250/- or six months' rigorous imprisonment. This rule I believe is the first of its kind in any City in India and it came into operation during the latter part of the year under report.

In order to meet the needs of the indigent persons living within the said prohibited area who cannot afford to engage the services of a qualified midwife or would not go to any hospital or shelter provided for the poor on grounds of religious or caste scruples or for some other valid reason, it was left to the Corporation to make the necessary arrangements for the provision of sufficient medical aid and qualified midwives for this purpose.

Three fully qualified Nurse Midwives were therefore appointed during the year and along with the one that was appointed in the year 1929 for the Theinbyu Circle, these four Nurse-Midwives were posted at the respective Registration Stations within the prohibited area to attend to the needs of the indigent persons claiming their assistance free of any cost.

Their duties mainly consist in going round their respective divisions and come in touch with all expectant mothers and they attend to every case of confinement of the poor when called upon to do so in their homes whenever for some reason or other the patient could not be induced to go to the Dufferin Hospital or any of the Maternity Shelters nearest their home.

As I have stated before, with the advent of this rule prohibiting the attendance of unqualified midwives in cases of confinement within the notified area, the work of supervision of these newly appointed midwives has naturally fallen on the two Lady Health Assistants who would be called upon to help the Nurse-Midwives whenever required in case of protracted or abnormal labour.

I would therefore suggest that the work of the Infant and Maternity Welfare Centres should be entirely divorced from the existing free outdoor dispensaries of the poor and the two Lady Health Assistants should be relieved of this part of their morning work so that they may be able to devote the whole of their time untrammelled by any other duties to their legitimate sphere of work concerned purely and solely with the Maternity and Infant Welfare Clinics. For outdoor attendance at the dispensaries for women and children, I would recommend appointment of two Lady Sub-Assistant Surgeons on the same grade and scale of pay that is granted to the Medical Registrars.

Cholera.

34 cases of Cholera with 22 deaths were reported during the year. The corresponding figures for the previous year were 90 cases and 61 deaths. Of the total number of cases reported, 6 (amongst which 4 deaths occurred) were ascertained to have been imported. The disease was at its height in May.

24 cases including 1 case of the previous year were treated in the Contagious Diseases Hospital of which 12 died, giving a case mortality rate of 50.00. 11 cases were treated at home of which 10 died, giving a case mortality rate of 90.90 per cent. The death-rate per 1,000 population was 0.06 and the average for the past five years is 0.25.

Small-pox.

52 cases of Small-pox were reported during the year 1930 of which 14 were

ascertained to have been imported. The number of deaths recorded was 15 giving a case mortality rate of 28.85 per cent.

In 1929 the total number of cases recorded was 51 with 13 deaths,

The death-rate per 1,000 population was 0.04 and the average for the past five years is 0.73.

Of the total number of deaths, 2 occurred amongst the cases in which vaccination scars were visible, 4 deaths amongst the cases said to have been vaccinated in infancy but in which no scars were visible and 9 amongst the unvaccinated.

3 unvaccinated children under the age of five were attacked with Small-pox and all three recovered.

The disease was at its height in the months of March and June and the total number of cases reported during these 2 months was 13 and 9 respectively.

41 cases, including 1 of the previous year, were treated in the Contagious Diseases Hospital of which 6 died, giving a case mortality rate of 14.63. 12 cases were treated in their homes of which 9 died, giving a case mortality rate of 75.00.

The following table gives the number of Small-pox cases reported during the year month by month :--

1930.	No. of cases reported
January	6
February	8
March	13
April	3
May	T of Open with 22 de
Jane	entre figures for the pres
July	total number of over topol
August	1
September	Se chees including 1 040
October	Second Li ciese were treate
Navember	Lines may 06 GP to stary thild
December	e over hird sul tot egy toys sele
.xog-llem	gittet te kenz di h <u>aanda a</u> n

Total

...

52

The following table shows the number of vaccinations performed during the year 1930 :-

1010 A 1020	änd then In the	Vaccinations per- formed by Corpor- ation staff.	Vaccinations per- formed by Private Medical Practition- ers and Contagious Diseases Hospital Staff.	the Rangoon	Vaccinations per- formed at the Port Health Sta- tion on arrival of vessels.	Grand Total.
January February March April May June July August	1930 	$\begin{array}{r} 3,894\\ 5,049\\ 6,655\\ 1,575\\ 648\\ 1,081\\ 2,643\\ 1,011\\ \end{array}$	243 223 225 268 - 99 23 89 84	337 294 402 399 353 269 278 293	$16,736 \\ 17,142 \\ 12,578 \\ 13,764 \\ 12,771 \\ 9,002 \\ 7,772 \\ 9,057 \\ \end{array}$	21,210 22,708 19,860 16,006 13 9 T 3,871 10,375 10,782 10,445
September October November December		1,367 829 1,102 1,438	82 89 154 273	260 184 198 187	13,717 18,112 25,124 27,190	15,426 19,214 26,578 29,088
alanges of	<u></u>	27,292	1,852	3,454	1,82,965	2,15,563

Vaccinal Condition of cases of Small-pox at the Contagious Diseases Hospital during 1930.

.300	and the second	198 by	A .	0.1.3	B.	LIT SMI	C.	pices	D.	F	E.		F.
۵	Ages.	evidence presence more V	nated as ed by the of one or Vaccination trices.	have succe vace but ne natio	ted to e been essfully cinated o vacci- n cicat- present.	unvace or vace unsuce and no tion of	cinated cessfully	unvac but va ted o incub	iously ccinated accina- luring ation of all-pox.	Stated be succe		Unva ted b a pr atta	accina- out had evious ick of ill-poz.
			Deaths.		L'eaths.	in the per	Deaths		Deaths.		Deaths.	T	Deaths.
				1					Douting.		Deatins.		eatrs.
Under on			15			1			Winter .	Inan		19/19	
1 2	year												
23	"												***
. 4	"												***-
* 5	"					3							
6	"					***							*** -
7	"		Partition										
8	"												
9	"		***			1	(1)						
10	"												
11	"												
12	"]										
13	"		10. ···			1							
14	"												
15	and the second					1							
16-20	"	5	"(1)										
21-25	,,	10	(1)			1	11						
26-30	,,	10				2 2							
31-35	,,	3	···(1)			_	(2)			1			
36-40	,,		and the second s										
41-50	>>	ï	1011										
51-60	,,		100000000000000000000000000000000000000		8								
61-70	,,							0				••••	
71-80	2.				/								
81	de												
upw	ards.												
To	tal	29	(2)			12	(4)			1			

() Shows deaths under each age period.

13

Measles.

177 cases of Measles were reported during the year and there were 2 deaths giving a death-rate of 0.006 per 1,000 of population. In the year 1929 there were 52 cases and 1 death with the death-rate of 0.003.

The average for the past five years is 0.01.

Chicken-pox.

453 cases of Chicken-pox were reported during the year and there were no deaths as compared with 370 cases and no deaths in the previous year.

Plague.

During the year, 43 cases of Plague with 38 deaths were recorded, giving a case mortality rate of 88.37 as compared with 104 cases with 94 deaths in the preceding year giving a case mortality rate of 9).38. Of the 43 cases reported 30 were males and 13 females. The death-rate per 1,000 of population for the year was 0.11 and the average for the past five years is 0.81.

The disease was at its height in the months of February and September.

The age period most affected was between 21 and 30 years and the Hindu Community suffered more heavily than the other Communities in the City.

18 cases were treated in the Contagious Diseases Hospital and of these 14 died, giving a case mortality rate of 77.78. 25 cases were treated in their homes of whom 24 died, giving a case mortality rate of 93.00.

Of the total number of cases, 5 were ascertained to have been imported and 3 or 60 per cent of the imported cases died.

The Statement below gives an account of the rats caught and examined at the Corporation Laboratory and the number of Plague seizures and deaths in 1930.

Months.	No. of rats caught.	No. of rats examined.	No. of rats found infected.	Percentage of infection.	No. of Plague Seizures.	No. of Plague Deaths.
January	 55,722	3,177			3	2
February	 49,773	2,912	7	0.24	7	6
March	 53,688	2,894	6	0.20	5	5
April	 52,848	3,070	6	0.19	4	01 4
May	 46,962	2,420	4	0.16	3	08-83
June	 30,330	1,735	4 2 9	0.12	1	105-11
July	 48,789	3,149	9	0.28	4	08-84
August	 47,732	2,961	5	0.17	3	3
September	 43,418	3,202	7	0.22	10	66-89
October	 44,981	2,763	1	0.04	1	03-1
November	 46,702	2,703	2	0.07	1,	13-15
Dacambar	 46,545	2,971	1	0.03	1	
7.'otal	 5,67,490	33,957		0.15	43 -	38

The following Table gives the species of rats found infected in the City of Rangoon during the year 1930 according to Circles.

Cir	interve	Mice.	Ganamas. Bengal- ensis.	Rat. Rattus.	Rat. Concolor.	Total.	
Newly Added Ar	ea	0118	b stat	,boluo)n	uses dis		house-siles die
North Kemmend	line	128+	2			3	5
South Kemmend	ine	()) (10)	-1	nand ben at homen a		10010 3 - 1	2 moz4
Lanmadaw			1			1	2
Taroktan				5		3	3
North-West Tor	wn	0.0	1	·		aa,a	1 et .
South-West To	wn			1.787.4		50,61	1
North East Tow	n 100:00.0			1		8	9
South-East Tow	n	••••		1,803		6	6
Botataung	£00,000 a	••••	1		2	7	10
Yegyaw	1288	01		···· 3			
Theinbyu	6,22,603			p	1	1	1
Tamwe	000.20.0			1	1		1
Dalla			1			1	2
Kanaungto	Theon of the			Lin	hiemen	la ovoda	Erom the
y duo to th y duo to th og ganga in th extra rating	Total	Chie entit	7 1 7	2	2 01 (88)	34	45 t • 5 *Sent by Public whose specie unknown.

Inoculation.—During the year under review 262 persons were inoculated by the Medical Officers of the Health Department.

B JUSTED BIS DUS TI

Disinfection and Cleaning.-847 houses were disinfected by the Health Department staff.

9,266 houses and house-sites were cleaned. The houses in the poor quarters of the City were as usual cleaned free of charge.

Destruction of Rats. 5,67,490 rats were destroyed during the year of which 33,957 were examined at the Corporation Laboratory and 50 were

reported to be Plague infected. The corresponding figures for 1929 were 6,79,699 destroyed, 38,060 examined and 133 found infected.

The four temporary gangs of coolies employed for ratting and sitecleaning were made permanent during the year thus making the total strength of 22 gangs.

The following Table gives the number of inoculations performed, houses and house-sites cleaned, houses disinfected, rats destroyed and number of Plague deaths for the past ten years :--

Yea	r.	Inoculations.	Houses and house- sites cleaned.	Houses disinfected.	Rats destroyed.	Plague deaths.
1920		5,036	8,045	1,354	3,45,750	1,127
1921		4,495	5,532	1,594	4,05,178	1,126
1922		5,561	7,233	2,119	4,08,785	1,402
1923		5,572	14,797	2,158	4,96,987	1,159
1924		2,018	36,237	1,285	6,30,907	505
1925		1,017	32,801	2,935	6,04,250	620
1926		605	28,747	1,738	6,69,184	257
1927	-	162	40,010	1,733	8,64,962	168
1928		338	32,527	5,140	8,61,827	257
1929		292	11,973	1,096	6,79,699	94
1930		262	9,266	847	5,67,490	38

From the above statement it will be seen that the total number of rats caught and the number of house-sites cleaned during the past year was much less than those of the previous year. This was mainly due to the disbandment and abolition of four of the eight temporary ratting gangs in the year 1929 when I was on leave. Since the year 1924, eight extra ratting gangs were sanctioned by the Corporation on my recommendation with a view to carry on an intensive campaign against rats, the main cause of the spread of Plague in human beings, with the extremely happy result shown in the statement above, viz. that the incidence of Plague has been brought down to a vanishing point.

Enteric Fever.

105 cases with 74 deaths were reported during the year under review as compared with 142 cases with 72 deaths in the previous year.

The number of deaths recorded during the previous five years is given below :--

1925	 	 		44
1926	 	 		78
1927	 	 		74
1928	 	 •		68
1929	 	 	ñ.	72

The death-rate per 1,000 population for the year was 0.21 and the average for the previous five years is 0.20.

Cerebro-Spinal Fever.

5 cases with 5 deaths from this disease were recorded as compared with 8 cases with 8 deaths in the previous year.

2 deaths were registered in Hospitals and Other Public Institutions.

The death-rate per 1,000 population for the year was 0.01 and the average for the past five years is 0.03.

Diphtheria.

33 cases of Diphtheria with 8 deaths were reported during the year as compared with 25 cases and 4 deaths in the previous year.

The death-rate for the year was 0.02 and the average for past five years is 0.02.

Puerperal Septicaemia.

31 cases of Puerperal Septicaemia with 31 deaths were recorded during the year as compared with 32 cases and 31 deaths in the previous year. The deathrate per 1,000 population was 0.09 and the average for the past five years is 0.08.

Malarial Fever.

During the year 132 deaths were registered as compared with 172 deaths in the preceding year, giving a death-rate of 0.38. The average for the last five years is 0.62.

Influenza.

13 deaths from Influenza were reported during the year as compared with 15 deaths in the previous year. The death-rate per 1,000 population for the year was 0.04 and the average for the past five years is 0.11

Months.	Euro- peans.	Anglo- Indians.	Hindus.	Moham- medans.	Burm- ese.	Chinese.	Other classes.	Total.
Japuary	 							
February	 		1				•••	1
March	 5		1				1	2
▲ pr il	 		1					1 .
Мау	 •••							
June	 			1		4		5
July	 1	1		1			***	3
August	 				•••			
September	 							
October	 •		1					1
November	 			·				
December	 							
Total	 1	1	4	2		4	1	13

A statement showing Influenza deaths by races and months is given below :---

Diarrhoea & Dysentery.

Diarrhoea and Dysentery accounted for 727 deaths as compared with 915 deaths in 1929. Of these, 135 were reported from Hospitals and other Public Institutions. The death-rate per mille of population was 2°11, the average for the last five years being 3°34.

Tuberculosis.

761 deaths from Tuberculosis were reported, giving a death-rate of 2.20 per mille as compared with 852 deaths and a death-rate of 2.47 in the previous year. Of these, 709 deaths were recorded as Phthisis. Of the 761 who died of this disease, 519 were males and 242 females, giving a death-rate of 2.17 and 2.27 respectively. The highest number of deaths were recorded from North Kemmendine, South Kemmendine and Botataung.

250 deaths were recorded in Hospitals and Other Public Institutions.

The following statement gives the death-rate on census population for Tuberculosis according to sex for the past five years :---

Year.	Male.	Female.
1925	 Death-rate 3 35	Death-rate. 4·21
1926	 3.21	3.61
1927	 2.77	2.83
1928	 2.27	2.37
1929	 2.41	2,58

The deaths and death-rate amongst the various Communities were as follows :----

		Deaths.	Death-rate.
Hindus		281	2.24
Mohammedans as	nd Malaye	133	2.14
Buddhists	• •••	289	2.52
Christians		45	1.77
Other Classes		13	0.71

The following statement gives the number of deaths from Tubercle of lungs and Respiratory Diseases with their death-rate per 1,000 of the population for the past ten years :—

		Tubercle of	Lungs	Respiratory	Diseases.
	Year.	 Total No. of deaths.	Death-rate per 1,000 of population,	Total No. of deaths.	Death-rate per 1,000 of population.
1920		 801	2.73	2,157	7.35
1921		 856	2.50	2,241	6.22
1922		 994	2.91	2,198	6.43
923		 887	2.59	2,131	6-23
924		 975	2.82	2,287	6-62
925		 1,188	3.44	2,344	. 6.78
926		 1,093	3.16	2,585	7.48
927		 902	- 2.61	2,476	7.17
928		 747	2.16	2,642	7.65
929		 804	2.33	2,329	6 74
1930		 709	2.05	1,967	5.69

The Corporation has decided to open a Clinic for treatment of tuberculosis cases. Arrangements are being made for selection of a suitable site for the purpose.

Respiratory Diseases (Excluding Phthisis).

1,967 deaths were registered from this disease as compared with 2,329 deaths in the previous year. Of these, 259 deaths were recorded in Hospitals and other Public Institutions. The death-rate per 1,000 population was 5.69 as compared with 6.74 in the previous year, the mean ratio for the past five years being 7.16.

Cancer.

35 deaths from Cancer were recorded during the year giving a death-rate of 0.10 per 1,000 of population as compared with 46 deaths with a death-rate of 0.13 in the previous year.

A statement showing these deaths according to Races and parts of the body affected is given below :---

Parts of the body affected.	Hindus.	Moham- medans.	Burmese.	Chinese.	Euro- peans.	Anglo- Indians.	Other Classes.	Total.
						an much		ALC: N
Neok	2010	110 790	10000 000	1	emelida	11	a) adil	2.
Mcuth	1	1	1				in and	3
Tongue	1		2					3
Throat	1				1			2
Breast				1				1
Stomach	and mit to			1	di 19. 2 % 10			1
Liver	. 1	.1	4					6
Pylorus			1					1
Cervíx	2		3		····			- 5-
Rectum	1		2		100			• 3
Uterus	1		2		1993			- 3-
Scrotam			1		dt.)			1
Kidney		1			all.			1
Parts not known			2	•,•	1			3.
	1410		10.5		REG			19291
s · · · · · · · · · · · · · · · · · · ·	2533		01.3		SIE	Fine		3928
	1.829		.88-9		108			1929
Total		3	18	3	2	1		35

Beri-Beri.

73 deaths were registered as compared with 128 deaths in the previous year. Of these, 51 deaths were reported from Hospitals and Other Public Institutions.

The death-rate per 1,000 population for the year was 0°21 and the average for the past five years is 0°25.

There was no death from Epidemic Dropsy.

Following the Local Government's Notification declaring Beri-Beri, including Epidemic Dropsy to be a notifiable disease, the Corporation in January 1930 included it in the list of diseases declared to be dangerous by the Corporation.

The following table gives the death and death-rate for the various races :-

Race.			Nun	nber o	Death-rate.		
	+0.0	J	Male	Female		Total	20quir
Hindus			45		7	52	0.41
Mohammedans a	nd Malays		9	80%	21	9	0.14
Buddhists			4		1	5	0.04
Christians			4		2	6	0.24
Other Classes	- 18.1		1	0.21		1	0.06
	Total		63		10	73	0.21
	0010			12.5		-	

Kala-Azar.

There were two deaths from Kala-Azar as compared with 1 death in the previous year. The death-rate was 0.006. Both of them were reported from the Rangoon General Hospital.

Date of death.	Name,	Sex.	Age.	Occupation.	Race.	Residence at the time of death.	Residence pre- vious to last illness.	Cause of death.
24-2-30	M. M. Datt	Male	35 years	Clerk	Hindu	Rangoon General Hospital.	Port Com- missioners, Rangoon.	Kala-Azar.
12-6-3 0	Lazeroo	Male	15 years		Indian Christian	Rangoon General Hospital.	38, Surty Garden.	Kala Azar

Comparative mortality from principal causes during 1929-30 and the last decennium.

oildos radio ban	192	9.	193	0.	Averag 10 ye	e for ars.
Cause of Death.	No. of deaths.	Death- rate.	No. of deaths.	Death- rate.	No. of deaths.	Death- rate.
Plague	-94	0.27	3 8	.0'11	671	1'94
Cholera	61	0'18	22	0.06	105	0 *31
Small-pox	13	0.01	15	0'04	194	0'56
Influenza	15	0*05	13	w0'04	169 m	0*48
Enteric	72	0.21	74	0*21	a 56 a	0'16
Malaria	172	0*50	132	0*38	284	0*82
Tuberculosis	852	2*47	761	2*20	*987	2.86
Diseases of the Res- piratory system.	2,329	6.74	1,967	5.69	2,339	6.22
Diarthoea and Dysen- tery.	915	2.65	727	2*11	1,052	3.04
Berl-Beri	128	0*37	73	0'21	98	0*28
Puerperal Septi- caemia.	-31	0.03	31	0.03	27	0.08

Contagious Diseases and Observation Hospitals.

The reports on the working of the above Hospitals for the year 1930 are appended hereto.

The following Table gives a summary of work done at the Contagious Diseases Hospital during the year 1930 :--

Diseases	31	Patients re- maining in hospital on 31st Decem- ber 1929.	Number of patients admitted during the year 1930.	Total number treated.	Discharged cured.	Died.	Case mortality per cent.	Patients remaining in hospital on 31st Decem- ber 1930.
Plague		0.02 ····	18	18	3	14	77.77	The last
Cholera		11 10.00	723	124	8.12	12	50-00	101 101 101 101 101 101 101 101 101 101
Small-pox		1	40	41	35	6	14.63	
Chicken-pox		5	*404	©409	1406			
Measles		1-1	-111	-112	-97	2	. 1.79	
Mumps		-6	42	48	48		1 10	
Diphtheria			14	14	10	3	21.43	1
"Erysipelas			13	13	10	e 1	7.69	22
Influenza	•				i			
Cerebro-Spinal Meningitis			-2	2		. 2	100.00	
Diarrhoea			·a4	4	3	1 30	25.00	
Adonitis		3	8.6	6	6		14	•••
All other dise	8508	53	18155	158	129	28	17.72	1
Grand Total		. 17	832	849	759	.69	8:13	

Medical Relief.

The four Corporation Dispensaries were open throughout the year to give free Medical relief to the sick poor.

Statement below gives the number of patients treated at these Dispensaries :--

Pationia	No	. of patient	attende	ed.	No. of	Total number of patients attended		Daily average	
Names of Dispen- saries.	Adu	ilts.	Children.		new cases attended during the	in		attendance in	
Der 1930.	Male.	Female.	Male.	Female.	year.	1930.	1929.	1930.	1929.
Dalla Dispensary	13,816	3,412	2,857	1,707	13,661	21,786	22,905	59.69	62.75
Merlin Kingsley Memorial Dis- pensary.	33,849	15,309	9,348	8,170	24,576	66,676	57,896	183.00	159.00
Forest Road Dis- pensary.	27,896	10,754	6,741	5,201	18,621	50,592	44,885	138.00	123.00
Kanaungto Dis- pensary.	15,878	4,472	2,131	1,938	12,717	24,419	20,450	67.00	56.00
Grand Total	91,439	33,947	21,077	17,016	69,575	1,63,473	1,46,136	447.87	400.37

Majority of the patients attending the above dispensaries belong to the poor working class in general.

The Building for a Dispensary for women and children at Kyundaw Quarter, Kemmendine, was not completed till the end of the year.

Medical Examination of Rickshaw pullers.

The following is a statement of work done by the Medical Officer for the examination of Rickshaw-Pullers and Attendance to Municipal Staff:-

Number of Pullers examined	. 8	>		8,678		were old licensees.
Number of Pallers found fit by the Me	dical Offic	er a		6,817		were old licensees were new licensees.
Number of Pullers found unfit	• e=:	••• 8	si	1,861		were old licensees vere new licensees.
Kumber of pullers medically fit and li Hackney Carriage Department Number of Pullers medically fit but a	•			5,416	41	bief beief
Hackney Carriage Department for ign Police and Traffic Regulations	orance of			1,401		

Of the rejected the following defects were noted :-

				Old Pullers.	New Pullers.	Total.
Under Age				 Nil	949	9494
Heart Disease		• •••		 1 gene	224	225
General Debility			do nil be	 15	572	587
T. B. Lungs				 Nil	58	58
Defective Vision		Evina.	13 1 010	 Nil	- 15	15
Deformity				 Nil	10	10
Varicose Veins				 Nil	10	10
Spieen Enlarged				 itil	3	3
Hernia				 Nil	law of the law	1
Hydrocele		Duster	Frome	 Nil	3	3
					-	-
	Mainp		Grand Total	 16	1,845	1,861
					VII	and the second

Medical attendance to the Staff of :--

(r) Fire Brigade.

1. Central Sta	tion	596	cases of	which 31 Injuries, 2	chicken-pox
2. Lanmadaw	Station	49	"	1 Injury, 1 Sa 1 Chiel	nall-pox ken-pox.
3. Fire Float		42	13	Nil	
(b) Motor Transpor	t Department	426	"	34 Injuries.	
(c) Yegu Pumping	Station	97	,,	3 "	
(d) Compressor Sta	tion	198	,,	16 "	
(e) Water & Sewera	age Department	39	,,	Nil "	
(1) Scott Market.		226	**	2 Injuries, 4 C	hicken-pox.
(g) Ejector & Sewer		4	17	1 Injury.	
(h) Waste Water I	Department	8	"	Nil	
(i) Kokine High L	evel Reservoir	1	"	Nil	
(j) Cart Departmen	t.	2	n	Nil	

Markets.

Markets were, as usual, regularly inspected by the Assistant Health Officers and steps were taken to keep them in a sanitary condition.

A whole time Sanitary Inspector continued to be in charge of the cleanliness and sanitation of the Scott Market throughout the year.

Ambulances.

The following Table gives an account of the work done by the Ambulance Cars during the year 1930:--

	1	No. of trips.	No. of patients.
1. Observation cases		457	1,362
2. Infectious cases	16,451 in	551	1,471

Laboratory.

Al the rejecto

This subject is dealt with in the report of the Analyst which is printed as a supplement to this report.

Jerked Meat.

The Port Authorities continued to report the arrival of all consignments of Jerked Meat to the Corporation Health Officer.

75 inspections were made by the Food Inspectors and 8,921 bundles of such meat were inspected by them before delivery.

Unwholesome Foodstuff Destroyed.

The statement of articles of unwholesome food and drink destroyed during the year 1930 is given at pages 146 and 147.

Ghee Samples.

59 samples of ghee were taken under the Ghee Act. 3 samples were reported to be adulterated by the Chemical Examiner to the Government of Burma. In one case, no action was taken as the party sold it as "grease and oil mixture."

The remaining 2 cases were sent up for prosecution and are pending in Court.

The present Ghee Act has been found to be very defective in many respects and I have dealt with this subject at some length in my Annual Report for the year 1923 to which I would invite reference for fuller details.

Since this Act has come into force, some of the big merchants and traders in this commodity have ceased to deal with adulterated stuff but there exists a very large number of dealers and shops who are selling Grease and Oil Mixture all over the town with impunity and cheat the general public by selling spurious stuff under various names according to the intelligence of the customer they have to deal with. To circumvent the clutches of the law, most of them now keep a small signboard hanging in one of the most unpromiscuous corner of the shop painted with the words "grease and oil mixture sold here" and some are now boldly importing consignments of adulterated ghee under the name of grease and oil mixture. Thus they have succeeded in nullifying the requirments of the law and escape prosecution.

I had made certain suggestions in my report referred to above for the amendment of the Ghee Act and they were approved by the Corporation and a letter was addressed to the Local Government for some amendment of the Act but so far nothing has been done.

Eating Houses & Tea Shops.

During the year under report 16,151 inspections were made by the Food Inspectors and 1,501 licenses were issued for places where articles of fcod and drinks are manufactured, stored or exposed for sale. One license was cancelled for breach of rules. Instructions have been issued to the Food Inspectors to make periodical inspections of the conditions under which eatables are sold near Schools.

Wash House.

The total number of tanks at the Dhoby Wash House is 564. The approximate number of dhobies using them daily is 600. Out of these tanks, 36 covered tanks are engaged by several Pinmen and a few others.

Burial Grounds.

All the Burial Grounds were regularly visited and burial passes collected and checked.

At the instance of the Rangoon Development Trust, the Corporation in July last agreed to take over a piece of land known as holding No. 7 in Survey Block No. 70 measuring 6.385 of an acre at present used as a burial ground by the inhabitants of Sinmalaik Village, Kemmendine. The land has been vested in the Corporation and is being maintained as a burial ground.

An area of land measuring 3.535 acres is being acquired for extending the burial ground for Burmese and other non-Mohamedan Communities at Kanaungto.

Hides.

The Corporation Hide godowns in the Neikban quarter are being used for hide trade and no new licenses are issued for this business in the originally restricted Lanmadaw area of the Town.

Extension of Municipal Water Supply.

- (a) Providing 6" block main in Creek Street between Dalhousie and, Montgomery Streets.
- (b) Laying new block mains in 122nd, 123rd, 124th and 125th Streets between Bow Lane and Evanson Street.
- (c) Water equipment to block L. 6" mains and Fire Hydrants in Dufferin Street, 61st, 62nd and 63rd Streets between Merchant Street and Strand Road.

Extension of Sewage System.

- (a) Providing 9" gravitating sewer in Monkey Point Road between Creek and Judah Ezekiel Streets.
- (b) Laying a 6" gravitating sewer along the western boundary of the Scott Market to connect with the sewer in Montgomery Street.

Registered Buildings.

1 ne approxi-	2	3	V W	4		15 Jacis	5			
an 'sruth star	ildings ster in	0		Register on 31-12-3	ed Build- 1929.	No. of	No. of persons all to live.			
Divisions,	No. of Registered Buildings struck off the Register in 1930.	No. Registered in 1930.	Lodging houses.	Mill Cooly barracks	Total.	Lodging houses.	Mill Cooly barracks.	Total.		
East Suburban }	i juhred armedan	n 911-94 6012	179	123	300	5,613	14,568	20,210		
East Town (1)	10	9	413		413	18,547		18,547		
East Town (2)	5	. 26	258	24	282	12,600	5,780	18,380		
West Town (1)	2	12	393		393	21,507		21,507		
West Town (2)	1	8	402	-	402	16,052	· ·····	16,052		
West Suburban } area }	1	4	125	129	254	2,476	12,807	15,283		
Total	19	59	1,770	276	2,044	76,825	33,155	1,09,979		

The following statement gives the total number of Registered Buildings in

28

	10000	200 3000	74	_	_			
6	7	8	9	10	11	12	13	14
No. of Registered Buildings inspected during the year 1930.	Percentage of inspection to the total No. of buildings registered.	No. of houses inspected more than once during the year 1930.	No. exempted from the opera- tion of Rule re: 36 Sq. ft. floor space.	No. of individual rooms in which overcrowding was found during the year.	No. of individual rooms of Registered Buildings in which no excess was found.	No of R.B. cases sent up for prosecution during the year 1930.	Total No. of R.B. prosecu- tions tried during the year 1930.	Amount of fines imposed with Costs.
N-H	<u>d</u> + +		- N P T		X	X		- V
83	27.48			89	84	158		
466	122'83	136		683	1,020	664		
315	111'70	87	0/07/00	161	644	201	an an a	
229	58'27	78		195	769	220	ni junat Pavo di S	
447	110.92	112	ast the	482	967	447	2678	Sup?
28	11.05	2		13	71	23		
	220		202			1742		1014
1,568	76.60	415		1,623	3 ,555	81,747	1,999	Rs. 11,349
	22.2					1,366		
	16,23							
	18,37		1.812			1,428		
-	17,4%		, 371			1,286		

666'1

1.558

the City and the number inspected for overcrowding, etc :--

11,349

The following statement gives the number of Mills, Factories and Workshops, etc., in the City of Rangoon and the accommodation provided for labourers therein by the Owners thereof :--

Description of M ries, et		acto-	Total No.	No. of persons employed.	No. of persons for whom accom- modation is provided.	No. of barracks.
Rice Mill			49	8,693	7,861	172
Saw Mill .			31	6,322	4,701	47
Workshop			30	3,560	929	16
Dockyard .			3	550	2,200	20
Ice and Aera Factory	ted W	Vater	10	411	77	6
Miscellaneous T	rades		64	6,691	1,805	50
		12.1				
	Total	••••	187	28,627	17,573	311

Registered Buildings and Overcrowding.

The following statement gives figures of the total number of night inspections made, the number of prosecution cases tried and the amount of fine imposed for overcrowding for the past seven years :--

Year.		No. of Inspections.	No. of cases tried.	Fine Imposed.
		B 11-1.	181 Jan 181	Rs.
1924		1,745	895	6,530
1925		1,568	1,288	10,367
1926		1,366	1,088	9,957
1927		1,032	1,472	16,232
1928		1,428	1,842	18,372
1929		1,786	2,371	17,441
1930		1,568	1,999	11,349

There is no other City in the East or West, I believe, where such a rigorous action is taken against overcrowding in the absence of adequate housing accommodation as in this City and yet arguments have been seriously put forward against the Health Department of this Corporation for not enforcing the rules framed for registered buildings against overcrowding and for not instituting a more rigorous campaign against the worse affected areas and force a crisis, the idea being that this action would not add to human distress but would force thereby many of the excess numbers to return to their homes in India.

If that be their objective then why not stop or limit immigration for some time till proper accommodation is made available. To imagine that rigorous action against overcrowding would drive these people back to their villages in India is to expose one's ignorance of the prevailing conditions of labour in Rangoon. Any more vigorous action by way of prosecutions alone would soon result only in a ruthless campaign of persecution of the hardworked, half-starved labourer driven from place to place in search for a small place in a sheltered cover to stretch his tired limbs at night.

Humanity above all, demands a better treatment for the poor labourer than what is implicated in the enforcement of lodging house rules alone. When all concerned including the Local Government have failed to do their share of the responsibility lying on their shoulders why put the blame at the door of the Health Department who can only prosecute people for overcrowding and drive them from place to place without in the least ameliorating the condition of overcrowding as the number of houses in the town fall far too short of the population to be accommodated at any time of the year. Rangoon City, as I have said so often before, forms a huge clearing house for labourers coming from and going to all parts of the Province and unless immigration is restricted to the actual number for whom work could be found for all months of the year and until housing accommodation to the proper extent is provided by the joint efforts of all concerned, viz., the Local Government, the Port Commissioners, the Municipal Corporation of Rangoon and the big employers of labour, all attempts to solve this problem of this evil of great overcrowding by means of enforcing lodging house rules alone are doomed to failure.

Registration Depots.

The following are the Registration Depots in the Town :-

Kanaungto.

Dalla.

Kemmendine-59, Kyaungyi Street.

Forest Road-47, Sayamagyi Road, Ahlone.

Lanmadaw-126-15th Street.

Central, West-184-27th Street.

Central, East-147, Barr Street.

Botataung-26, Dalhousie Street.

Pazundaung-37, Evanson Street.

A proposal is under consideration to open another registration station at Tamwe with a dispensary attached to it. The following statement gives a summary of the work done in the Department during the year 1930:-

No, of Notices issued		NGOLL	24,428
No. of cases sent up for prosecut	ion	halmon hanne	2,598
No. of cases tried			2,849
No. of cases withdrawn	Contract of the second		209
No. of cases pending disposal			1989
	•••	Sanar Dr. 9 or '	
Fines imposed		Volgenzit same hi	Rs. 15,251-0-0
Cost awarded			Rs. 1,712-0-0
No. of complaints received			355
No of inter-departmental report	s issued		6 62
No. of cases opened		and a second of the second	5,205
No. of Licenses issued :-			1 10-50 B
Milk			65
Ice-cream & Sherbet		A Sarra aloto An	103
Ice and Aerated Waters	CO BOKATO	1111 - COLO 0 - COLO	22
Dangerous & Offensive Trade	***		
		and an an all the first	1,065
Public Eating Houses & Tea	statts		1,301
No. of letters received			12,316
No. of letters issued	G. 9020 0	011 00	14,099
No. of Indents, statements, bills,	etc. issued	and state and state	3,733
No. of houses condemned under se	ction 156		5
No. of houses vacated under section	n 156	190-0 mamab.l	2
Amount of fees paid for			and the second sec
notification of infectious dise	ases by		Rs. 206-0-0
Private Medical Practitioners	and of		
Frivate modical fractioners			

Revenue received during the year.

		Rs. A P
Issue of Licenses for Dangerous and Offensive Trades, etc Issue of Licenses for Public Eating	101,0 90 roitu	7,278 0 0
houses and teashops		12,275 0 0
Issue of Wash-house tickets	TACART ADDRENTED	16,221 9 0
Lease of Ironing-sheds, etc. at Dhoby Wash-house	contractor and a la contractor	1,920 0 0
Issue of extracts of Births & Deaths		556 0 0
Rents from Hide Godowns	Province of the	7,119 4 0
Miscellaneous	moque Magisled	889 11 0
	Grand Tota	46,259 8 0

The following statement shows the work done by Lady Health Visitors and Vaccinators during the year 1930 :--

No. of births verified No. of unregistered births found		··· 3,096 1,786
No. of Small-pox cases found during hour to house inspection		Nil
No. of Notices served for vaccination No. of prosecutions under Vaccination Act	"if h Street. ".	a set of the set of th
No. of Schools inspected for vaccination	-2010 Street.	126
No. of School children inspected No. of School children vaccinated	THE DEPENDENCE I LEADER . N	3,079
No. of Mills inspected for vaccination No. of persons inspected		
No. of Mill hands vaccinated No. of primary vaccinations performed		4,108
Total No. of vaccinations performed		2,13,653

Calendar Year.	Total No. of Vaccinations	No. of Sanitary	No. of block-	No. of letters	No. of letters	No. of licenses	No. of cases	Amount of fines.	
I our.	performed.	notices issued.	ages cleared.	received.	issued.	issued.	tried.	Rs.	Aε.
1921	43,648	10,490	2,995	8,267	10,894	875	1,682	18,322	0
1922	46,711	11,973	3,999	7,981	11,528	919	1,453	10,086	4
1923	65,091	12,076	6,012	7,840	11,093	865	1,396	10,539	0
1924	57,334	13,211	18,240	8,807	11,902	1,057	1,311	8,516	4
1925	1,27,111	15,768	15,364	8,748	13,005	1,246	2,489	15,873	0
1926	85,850	17,038	22,765	9,292	13,076	1,268	2,087	13,689	0
1927	98,195	20,181	22,118	9,362	14,162	1,963	3,325	26,380	8
1928	2,41,774	20,270	24,060	11,372	14,705	2,358	3,710	30,442	8,
1929	2,58,374	27,264	30,025	13,483	17,614	2,568	3,581	24,048	8
1930	2,13,653	24,428	31,232	12,316	14,099	2,556	2,849	15,251	0

The following Table gives a comparative summary of the work of Vaccination and Sanitary sections for the past 10 years :--

Conservancy and Veterinary Departments.

The newly appointed Chief Transport Officer, Mr. M. N. Ray, took over charge of the Conservancy Department from the Health Department on the 10th February 1930.

The Veterinary Department was separated from the Health Department from the 2nd September 1930 and placed under the control of U Shwe Hla Owne, Veterinary Officer.

Staff.

Dr. K. R. Dalal, L.M. & S., D.T.M., D.P.H., Health Officer, continued to be in charge of the Health Department throughout the year.

Dr. N. S. Kotwall, M.B., B.S., D.T.M., & D.P.H., Assistant Health Officer, and six Sanitary Inspectors, were placed on special duty in connection with the scheme inaugurated by the Director of Public Health, Burma, for a Mosquito Survey of Rangoon, from April to November 1930.

Dr. J. Hormasji, L.R.C. P. & S., D.P.H., Assistant Health Officer, was on leave from the 29th April to 2nd December 1930 and on his return, he was appointed Director, Cleansing Department, and assumed charge of his duties on the 3rd December, 1930. Assistant Health Officers, Dr. B. P. Srivastava, M B., B.S., D.P.H., Dr. Sydney Rodriguez, M.B., Ch.B., D.P.H., and Dr. K. P. Pillai, M.B., B.S., D.P.H., continued to be in charge of their respective divisions throughout the year.

Dr. (Miss) G. Hormasji, M.B., was appointed Lady Health Assistant in place of Dr. Miss N. K. Narayani, M.B., resigned, on the 12th August 1930 on probation for one year.

One Nurse-Midwife was centertained from the 16th December 1930 for Kanaungto Circle for a period of one year.

Appointments of three additional Nurse-Midwives were sanctioned by the Corporation to meet the needs of indigent persons within the area where midwifery by unqualified persons is prohibited. These three Nurse-Midwives and the one sanctioned previously for Theinbyu Circle were posted for duty in this area from the 16th December 1930.

Mr. D. M. Gangolli, M.Sc., B.A., Analyst, continued to be in charge of the Laboratory during the year.

The Corporation in January 1930 decided to abolish the four appointments of Sanitary Supervisors as each of the present incumbents retired. Two appointments were abolished during the year owing to the death of Mr. L. F. Kenny and retirement of Mr. M. J. Murray.

Concluding Remarks.

The year under report will long remain in the memory of the citizens for the two most unfortunate events that marred the peace and equanimity of this the premier City of the Province of Burma.

A very severe earthquake shock was experienced on the night of the 5th of May of this year resulting in some loss of life and severe and serious damage to property. This was followed by an outbreak of riot of an extremely bad character on the early morning of the 26th of the same month between the wharf coolies of the Telugu and the Burmese labour communities which soon spread like wild fire in all other parts of the town and assumed a sort of an inter-communal strife of a most disastrous nature resulting in heavy casualties of the dead and injured.

A very grave situation was created by the complete stoppage of conservancy work both Day and Night during the period of the serious disturbances that had taken place in the City on account of the riot in the last week of that month. During this critical period I was asked to take charge of the Conservancy Department as a temporary measure.

Day after day the household rubbish, market refuse and filth of every description were accumulating and remained unremoved for over a week. Similarly over 20,800 night-soil tubs in the suburban areas of the town were not conserved during this period. Every effort was made to collect our men and free ration was supplied to all the men including a large number of outside coolies who had taken refuge in various bullock depots and other Corporation quarters during the worse days of the riot and as much protection available was granted to these panic stricken lot. After a great deal of coaxing and persuasion by the Commissioner and Members of the Special Committee appointed by the Corporation and the assurance of safety against any kind of assault or injury given by His Excellency Sir Charles Innes, K.C.S.I., C.I.E., I.C.S., who had so kindly paid a personal visit one evening at the Ahlone Bullock Depot, the men were induced to go to work.

The Night Conservancy work was started under Military Police escort for the first few days of the week and the conservancy of the town was properly resumed from the 3rd June 1930.

In the meantime, every precaution was taken by my staff to cover over all the stagnant mass of putrefying refuse, filth and nightsoil tubs with lime, crude oil and other disinfectant fluids with a view to prevent the breeding of flies and to checkmate as far as possible threatened outbreaks of such dangerous diseases as Cholera, Dysentery and Enteric in an epidemic form which appeared inevitable as the filth was accumulating day after day. Here I should like to place on record my appreciation of the strenuous efforts made and the whole-hearted co-operation given by my Assistant Health Officers, the Veterinary Officer and the whole of my Sanitary staff who were on duty during this whole critical period of the riot.

In spite of such grave disturbances as noted above and the large number of unnatural deaths as the result of the riot, the health of the town for the year under report was remarkably good as will be seen from the great decline in the total number of deaths and the death-rate of the town. The crude deathrate of the town was 27.61 on the Census population of 1921 and 24.40 on the estimated population. This death-rate though crude and uncorrected, compares very favourably with other Cities and I believe it is the lowest on record for our town as far as I have seen the records for the past 30 years, and I think the Corporation along with the Health Department would justly be proud of this achievement as a result of their constant endeavours to improve the health and sanitation of the City.

A good deal of attention during the year under report was centred round the organisation of the Maternity & Child Welfare Centres and the establishment of Tuberculosis and Venereal Clinics.

Maternity & Child Welfare.

The Maternity & Child Welfare Centres have been well established and the question of housing the same in a separate building is under consideration.

Tuberculosis Clinic.

The Corporation have undertaken to establish an outdoor Tuberculosis Clinic and it has been decided to start one in the recently vacated building of the Lanmadaw Fire Brigade Station. Plans and estimates for converting this building into a Tuberculosis Clinic are under preparation.

Venereal Clinic.

I have already submitted a complete scheme for the establishment of a Venereal Clinic in the City and the Corporation have approached the Government with the request that the Corporation would be pleased to give their contribution towards the establishment of such a clinic.

Venereal disease has come to be recognised as the greatest of modern plagues. They damage the health of both parents and act as a poison on the expected child, many of whom die before or soon after they are born. Next to Tuberculosis, Syphilis is the most potent cause of protracted illness which is directly or indirectly responsible for a large share of the total number of deaths that take place in town. It is a potent cause of still-births and premature live births and a frequent cause of deaths in infancy and early childhood.

Venereal disease is a danger to public health and a menace to the vitality, health and physical progress of the race. Any money spent therefore in the proper treatment and control of these diseases by providing free facilities and centres of the treatment to the suffering public, would be money well spent.

Chief Causes of Death.

Among the chief causes of death Respiratory Diseases and Tuberculosis. again come first.

A consideration of the causes of these two formidable diseases bring me back to the question of housing conditions which I have described year after year in some of my Annual and other reports but so far my cry for some reform in our old building bye-laws to eradicate the evil of the sunless houses that are all too prevalent in this City has been a cry in the wilderness.

Epidemic diseases.

As far as epidemic diseases are concerned, he year under review may be considered as one of the healthiest years on record. Deaths from Plague, Cholera and Small-pox accounted for an extremely small share of the total number of deaths for the year.

Plague.

From the Table given at page 16 showing the number of house-sites cleansed, number of rats destroyed and the number of deaths from Plague for the past 10 years, it will be seen that there has been a steady and rapid fall in the number of plague deaths *pari passu* with the corresponding increase in the number of house sites cleansed and the number of rats destroyed by the Plague gangs employed.

I am happy to state that the incidence of Plague has been brought down practically speaking to the vanishing point in the year under review. It is unfortunate however that four of the eight extra gangs employed for this purpose were disbanded in the year 1929 while I was on leave and this accounts for the heavy fall in the number of rats destroyed during the years 1929 and 1930 as compared with the previous two years.

Apart from the fact of rat being a carrier of human plague, and some other diseases besides, the damage effected by rats is not inconsiderable. It has been estimated that the financial loss caused by rats alone in England comes to over 15 million sterling a year.

One pair of brown rats has nearly 860 descendants in a year and the house rat has over 480. One rat consumes about 80 pounds of bread in a year. Computing on this basis, 860 rats would consume about 30 tons of bread. The large number of rats destroyed in our town year after year has been the means of preventing serious financial losses to various trades and industries in the City. So the extermination of this great puisance and menace to life and health is a serious problem of social economy also.

Medical Relief.

As stated in the body of the report the total number of the outdoor patients who received free treatment at the four dispensaries maintained by the Corporation was 1,63,473 with a daily average attendance of 447 sick and ailing men, women and children. I have not the least doubt that the marked improvement in the health of the masses as evidenced by the steady decline in the general death-rate is not a little due to the free and early treatment of the sick poor and the relief afforded to them at these dispensaries. The fifth dispensary to be maintained by the Corporation and intended for women and children only is nearing completion and will form one of the most up-to-date buildings of its kind.

For further extension of free medical relief to other parts of the town in compliance with the request of the Committee I have already submitted a scheme for the establishment of free outdoor dispensaries in other parts of the town in their order of urgency and the next site selected is at Tamwe which is under consideration.

Supervision of articles of food & drink.

Since the introduction of the rules framed by me in 1926 for licensing places where articles of food and drink are manufactured or exposed for sale, great improvement has been noted in all such places as tea-stalls, hotels, restaurants and sweetmeat shops dotted all over the town in such large numbers.

In the reorganisation scheme of 1928, four additional Food Inspectors were sanctioned and since then a closer supervision and more frequent visits of inspection have resulted in ever greater improvement in the clean and wholesome state of the various articles of food and drink sold to the public.

Additional Staff under the Reorganisation Scheme.

In the reorganisation scheme referred to above, the Corporation was pleased to sanction an additional staff on my recommendation and the health department was thus to a great extent enabled to extend its activities in most of its legitimate sphere of work.

The summary of the work done by the Vaccination and the Sanitary section of the department for the past 10 years as given in Table at page 33 gives one a fair idea of the enormous increase in work done by the department since the additional staff was employed under the re-organisation scheme.

Daring the year under report a slight set-back in the amount of work turned out by the department would be noticed in the Statement referred to and this is accounted for by the fact that one of the Assistant Health Officers and six Sanitary Inspectors were detailed for Special Duty in connection with the Malaria Survey Scheme for a period of eight months.

Tables on pages 144 to 147 giving summary of the unwholesome articles of food and drink destroyed, of the number of inspections carried out in the registered buildings or lodging houses and the amount of work turned out by the department during the year under review would give some idea of the strenuous efforts made by the Health Department in their endeavours to improve the health and sanitation of the City.

Similarly the statement of the number of deaths and the death-rate per 1,000 of the Census population from principal causes of death for the past 10 years as given in Table at page 41 gives irrefutable evidence of the marked improvement in the health and vital statistics of the City.

Results achieved are no doubt most gratifying and the Corporation have every reason to be proud of the wise and far-seeing policy adopted by them and the increased expenditure incurred in their approval of the reorganisation scheme submitted by me. The marked decline in the general death-rate alone has more than hundredfold paid back the extra amount spent. One thing we must never forget that sanitation means money and any money spent on sanitation would be money well-spent.

Before I conclude I have to tender my thanks to all members of my staff, both outdoor and office, for their loyal co-operation, ungrudging help and hard work throughout my term of office as it was the team-work of all concerned that has resulted in such a brilliant record of achievement of no small measure.

A Retrospect.

This will form the last of the Annual Reports written by me as I shall soon be proceeding on leave preparatory to retirement and a short resume of the work and activities of the Health Department and the progress made, if any, in the health and sanitation of the City during the period of my term of office as the head of the department, I believe, would not be out of place.

I have been connected with the public health service of this town since the year 1915 when I was appointed to one of the then two Assistant Health Officer's posts in the officiating vacancy, and with a break in service for the years 1918-1920 on my accepting a Commission as an I.M.S. Officer in the Great War, I have been in the service of the Corporation again since the year 1921. In the year 1924, the Corporation was pleased to select me as the Health Officer in the permanent vacancy then fallen vacant.

Besides taking charge of the Health Department I was called upon to take over the Veterinary and Conservancy Departments as well and amalgamate the same under my sole control and the posts of the then Veterinary Officer and the Assistant Veterinary Officer were abolished. When I took over charge, removal of town rubbish by bullock carts was the main and the only form of transport and the amount of refuse removed amounted to about 1,200 cartloads per day.

The existing staff of the Conservancy department including the men and the material employed in the removal and disposal of the rubbish from the rapidly growing town under the intensive activities of the Rangoon Development Trust, was found to be hardly adequate. A report was submitted by me to this effect and the Corporation was pleased to sanction, on my recommendation, the enhanced staff and the purchase of six motor-lorries instead of additional carts and bullocks.

The following observation appears in the said report :--

"Here I would particularly like to draw attention to my report submitted in connection with the extra conservancy staff required for the increased needs of the town and my notes thereon in reference to the substitution of bullock carts by Motor traction. I am more than convinced it is high time motor transport is substituted at a very early date. The Committee has been pleased to sanction my scheme of buying six motor-lorries instead of buying bullocks. I should now like to go a step further and suggest that instead of keeping the present sanctioned strength of over two thousand bullocks, every deficiency felt hereafter should be substituted by motor

traction and no further expenditure need be incurred after purchase of additional bullocks or construction of additional bullock sheds." This was my scheme as proposed in 1924 which was approved by the Corporation and whole-heartedly carried out in later years. Sanction was given to purchase six motor-lorries to begin with and the present fleet of motor-lorries is the outcome of this scheme originated by me. After passing through various stages and vicissitudes, removal of all the town refuse by means of motor transport is now an accomplished fact and the increased amount of work entailed in its administration necessitated the separation of the Conservancy and the Motor Transport Departments under a separate head since the year under report. This complete substitution of bullock cart transport with motor was brought about without a single day's hitch or trouble of any kind in the proper and efficient working of this department, mainly due to the mutual goodwill and co-operation of the Veterinary Officer and the then Chief Transport Officer, Mr. Tuppen, with the Health Officer during the whole period of its transition. My thanks are due to these officers which I readily extend.

Unfortunately the Conservancy department has had a series of setback since it was placed under a separate head and I was called upon to submit my views on this subject when it was brought up again before the Committee for reconsideration on the resignation of the newly appointed Chief Transport Officer. As it gives a brief record of the history of Conservancy, I have appended herewith a copy of the said report for reference any time in the future, at page 53.

Now coming to the main subject under review, I have been at the head of this department for the past eight years and I can do no better than place on record a comparative statement of the work done and the measure of success if any, achieved during this brief period of my regime as compared with the state of affairs existent in previous years.

The following Table gives a comparative statement of the total number of deaths and the death-rates per 1,000 of the population of the principal causes of death and the general death-rate for the past ten years as compared with the year 1930 under review.

			in in in it.						
Death-Rates.	No. of Design			Desth-Rates,	Desth-Rates.	No. of Desthe.	Death-Rates.		
	47 63 44 71 54	0.69 0.40 0.24 0.24 0.11 0.12 0.05	37 61 30		0'21 0'30 0'30 0'11 0'13 0'13 0'13 0'24	132 132 64 64		1.124 1.402 2.159 505 505 287 168 257	
. 0:21			15	10.0		10 .	11.0		

The following table gives the number of Devins and Death-Eafes par 1,000

EA

	Plag	ue.	Chole	era.	Small-pox. Influenza.		nza.	Enteric.		
	No. of Deaths.	Death-Rates.	No. of Deaths.	Death-Rates.	No. of Deaths.	Death-Rates.	No. of Deaths.	Death-Rates.	No. of Deaths.	Death-Rates.
								a gama	a califica	BAY
1920	1,127	3'84	61	0'21	120	0.41	813	2.77	31	0*10
1921	1,126	8.29	101	0.30	18	0.02	228	0.62	38	0.11
1922	1,402	4'10	264	0'77	72	0.55	236	0.69	43	0.13
1923	1,159	3*39	48	0.14	363	1.06	137	0.40	47	0.14
1924	505	1.46	132	0.38	99	0.53	83	0'24	63	0*18
1925	620	1.79	60	0.17	630	1'83	48	0.14	44	0.13
1926	257	0'74	149	0.43	42	0'12	37	0.11	78	0.53
1927	168	0'49	84	0.24	203	0.29	61	0.18	74	0'21
1928	257	0.74	86	0.25	378	1.09	30	0.08	68	0.50
1929	94	0.52	61	0'18	13	0.04	15	0.02	72	0.21
1930	38	0.11	22	0.06	15	0.01	13	0.04	74	0'21

The following table gives the number of Deaths and Death-Rates per 1,000 of

Census population from the principal causes of Deaths from 1920 to 1930 :-

Mala	aria.	Tuber	c ulosis		ratory ases.	a	rhoea nd entery.	i jo prov A	ofly revie	lier broil
No. of Deaths.	Death-Rates.	No. of Deaths.	Death-Rates.	No. of Dearns.	Death-Rates	No. of Deatns.	Death-Rates.	Total number of Deaths.	Death- Rate per 1000 census popula- tion.	Death- Rate per 1,000. Estimated popula- tion.
			Den Al	und)	1.1.1.1	ilos a	DIV/181	a Zuimielo	the town	through
.352	1.20	920	3.14	2,157	7.35	990	3.37	12,140	41.39	36.75
387	1 13	915	2.67	2,241	6.55	976	2.85	12,066	35'28	Nil (being cen-
406	1.19	1,046	3.06	2.198	6.43	939	2.76	12,323	36'04	sus year.) 35'53
350	1.02	939	2.75	2,131	6.23	838	2.45	11,918	34'85	33'89
279	0.80	1,035	3.00	2,287	6.62	1,014	2.93	11,448	35.13	32.11
224	0.65	1,250	3.62	2,344	6.78	1,249	3.61	12,373	35'81	33'90
220	0.64	1,152	3'33	2,585	7.48	1,695	4.91	12,231	35'40	33.04
219	0.63	964	2'79	2,476	7.17	1,040	3.01	10,851	31'41	28.91
236	0.68	796	2.30	2,642	7.65	866	2.51	11,690	33'83	30.71
172	0.20	852	2.47	2,329	6.74	915	2'65	10,980	31.78	28.46
132	0.38	761	2.20	1,967	5.69	727	2.11	9,541	27'61	24.40
	Bille D	Sur 4	without of	pre	SUPPOR	bilt be	i est a	viow file sa	em ni eaw	ault en
	insti v	ali no	nolia	ilao Art	191 V	loaling!	nuo k	word, As a a stion	int in our	dit teilt

coming to this Province was mat raised of

day. An Act of logislature was accordingly passed in the Local Council and His Excellency the Governor-General in India has given his gravious consous

to the Burnes Act No. IV of 1928, amending the Burnes Veccination Law Amendment Act of 1969 whereby overy person who this travelled on heard the From this statement it will be seen that there has been a marked decline in the number of deaths from almost all of the principal causes of death and a most satisfactory one in the general death rate of the town. I shall here briefly review some of these diseases, one by one.

Small-pox.

The epidemic of small-pox is an event of perennial occurrence in our City as with other provinces of the British Empire in India. This disease is more or less endemic in our town and the conditions under which the people live, the extreme overcrowding in the living rooms, the huge floating population of the immigrant and emigrant labour community and the very large number of the unprotected people in the general population, afford excellent opportunities for this disease to spread like wild-fire once infection is brought in.

Every three or four years, a more virulent wave of the epidemic sweeps through the town claiming a heavier toll of life than usual.

So far vaccination by calf lymph is the simplest and surest protection against the ravages of this dreadful disease. Unfortunately however, vaccination does not grant life-long immunity. The protection granted by the first or primary vaccination fades away in time, generally after a period of seven years or thereabouts. That is why we see so many of the adult population suffer from Small-pox during epidemic times though they were vaccinated in infancy and bear marks of old vaccination. Hence the very great necessity of re-vaccination of every individual after a lapse of seven years of the primary operation.

I have already dealt with this subject in a most exhaustive way in my previous reports and a special report was submitted by me under the caption "Annual Recrudescence of Small-pox in Rangoon and the necessity for introduction of Compulsory Re-Vaccination to safeguard the town and incidentally the Province of Burma from such infection," in the year 1924.

This report was readily approved by the Corporation and forwarded to the Local Government endorsing their recommendations to the suggestions made by me in the said report for an Act of legislature to introduce compulsory re-vaccination of all the labouring community entering the Province, as this was in my view the safest and the surest preventive measure in the true sense of the word. As a result of this action, I am happy to state here that though this question of compulsory re-vaccination of the immigrant labour coming to this Province was first raised by me in my Annual Report for the town of Bassein for the year 1914, it has at length seen the light of day. An Act of legislature was accordingly passed in the Local Council and His Excellency the Governor-General in India has given his gracious consent to the Burma Act No. IV of 1928, amending the Burma Vaccination Law Amendment Act of 1909 whereby every person who has travelled on board the vessel for the purpose of coming to Burma will be required to be vaccinated by the Port Health Authority unless he shows signs of having suffered from Small-pox or produces evidence that he has been successfully vaccinated or re-vaccinated within seven years preceding his arrival in Burma.

This Act is now in force for the past two years and over 2,00,000 of the immigrants entering the Port of Rangoon are subjected to vaccination before they are allowed to enter the town. The Corporation has undertaken to maintain four Vaccinators exclusively for this purpose and supply any number more whenever requisitioned by the Port Health Officer, and supply the necessary lymph free of cost. The Port Health Officer has the necessary powers under this Act and the operation of the Act is left under him, we supplying the Vaccinators and the necessary amount of calf lymph.

The statement at page 123 gives the total number of the immigrants vaccinated at the Port, the wages of the four Vaccinators and the cost of the lymph supplied.

From the statement of the history of past ten years given here in the beginning of this chapter it will be seen that the number of deaths caused by Small-pox for the past two years is 13 and 15 only respectively as compared with heavier mortality figures of previous years. It is early as yet no doubt to say what lasting effect this recently introduced Act has had on the course of Small-pox in our town but when the fact of the wide-spread prevalence of this disease in different parts of India including the Ports of Calcutta and Madras from whence we get the largest share of our labour community, with large number of fatal cases during the years 1929 and 1930, is taken into consideration we have every ground to believe that this unusually low figure during these same two years may have been the result of this Act to some extent at least. Full credit will certainly be laid at the doors of the Corporation of Rangoon in time for their hearty and ready support given to the recommendation made by their Health Officer in his efforts for years past to prevent the annual recrudescence of this disease in the town. We have so far succeeded in obtaining this protective measure against the immigrant labour by an Act of legislature which is the first of its kind in British India and under Section 12. A of the same Act provision has been made now to vaccinate or revaccinate every person who has attained the age of twelve years and has been a resident in this town for the past one month or over. We are taking steps to vaccinate every child in the City who has or will soon attain the age of 12 years and thus by compulsory re-vaccination at this age, they will be conferred more or less a life-long protection wherever this second vaccination happens to end in a successful reaction. This is the first City I believe in British India where compulsory re-vaccination at the age of 12 years has been introduced and the justifiable pride however so little felt by the writer of this note who is responsible for this achievement at the time of his retirement will not I hope be taken amiss. With these two protective measures, I have not the least doubt in my mind that when provisions of this Act are properly and efficiently carried out the whole of the Province of Burma and incidentally the City of Rangoon will be given a measure of protection so long denied, against the annual recrudescence of this terrible disease and in the years to come the word "small-pox" may have to be relegated to the limbo of oblivion.

PLAGUE.

Plague, I believe, was first introduced into the City of Bombay in the year 1894 from ships and merchandise bringing infected rats from Hongkong. It gradually spread to all other parts of the Province and soon the rest of India was infected. It took nearly ten years to reach the shores of Burma and the first epidemic of Plague in Rangoon was experienced in the year 1905. Since then this disease has been with us year after year without a single break but with increased virulence at various periods of its cycle.

We have had severe exacerbations of this disease in the years 1908 1911, 1914, 1916, 1918 and 1922. The death rate of this disease was 11.74 per 1,000 of the population in the year 1906 and 4.10 in the year 1922. The total number of deaths from this disease was 2,974 in the year 1906 and the average of the 10 years 1914-1923 was 1,253 per year. Rangoon is the chief centre of the rice trade of this Province and one of the largest granaries in the World. Plague is a disease of rats and other rodents. Rats, rice and shipping are more or less inseparable. Every cargo of rice, every boat-load of paddy, brings into our City rats infected or otherwise, innumerable. All our efforts to clear the town of infected rats are simply rendered hundredfold more difficult by this invasion of infected rats from different parts of the Province.

There is no other part of the Province, however heavily infected, where such a ruthless warfare has been waged against this pest of rodents as in this City. An intensive campaign against the rat population of this City was launched by me soon after I assumed charge of the department and though it has cost the Corporation some money, the results achieved have been extremely gratifying.

Besides the 18 permanent gangs, 8 extra temporary gangs were entertained in the year 1924 and from the statement given in Table at page 16 it will be seen that $pa_{ri} p_{ussu}$ with the increased number of the rats destroyed and the house-sites cleaned, there has been a corresponding drop in the number of plague attacks and deaths. Since the year 1924 when we launched our attack on rats with double fury, year in and year out, there has been a remarkable and very rapid decline in the number of plague cases and deaths. In 1923 the total number of deaths recorded was 1,159. With a continuous and steady fall, the total number of deaths from this disease in the year under report was 38 only. This has been the lowest on record, I believe, in the history of plague in this City and it is with a sense of great satisfaction I am handing over charge of this the most important department of the Corporation to my successor with the incidence of this terrible scourge of the East brought down to a more or less vanishing point.

CHOLERA.

This disease too is widely prevalent in the whole of this Province during its epidemic season. Contaminated water supply is the principal causative agent in the wide-spread outbreaks of this disease all the world over. Burma is not an exception to this factor.

Cholera and other waterborne diseases such as enteric, diarrhoea and dysentery, have been completely eradicated from many a City by the introduction of adequate and wholesome pipe water supply. This one measure alone has been found successful in getting rid of these diseases without any other efforts. The same result has been noted in our City but unfortunately there are many areas still in existence where the town water supply has not been extended. Places like Dalla, Kanaungto and other riverine habitations mainly depend upon tanks and wells, shallow or deep, for their water supply and the few cases of Cholera that we usually get in Rangoon are mostly from these places.

The infection is brought generally from the district where Cholera is more or less endemic and breaks out in epidemic form every year during the bot season. Thus our City is perennially at the mercy of these imported cases of Cholera from other parts of the province, coming as they do by rail, river or road. A great portion of the City is well protected however against the inroads of this disease by the provision of pipe water, well chlorinated, but the riverine and suburban areas are still exposed to the ravages of this disease once introduced. Thus the greatest vigilance on the part of the Health Department is needed to prevent the spread of infection from imported cases and outside sources. How well the City has been guarded against a bad attack of this disease, figures given for the past ten years in Table at page 41 speak for themselves.

Respiratory Diseases, Tuberculosis and Bowel complaints.

Of the total number of deaths from all causes every year, the three principal diseases which are responsible for the largest number of deaths are Respiratory Diseases, Tuberculosis and that group of bowel complaints commonly known as Diarrhoea and Dysentery. During the year under report of the 9,541 total number of deaths as many as 3,445 or 36 per cent of the total deaths were due to these three diseases alone.

I have dealt with these subjects more or less exhaustively in my previous Angual Reports and it would be a mere repetition of what I have already said so many times before. For anyone interested in the subject I would begleave to invite a reference to my Annual Reports of the past few years and some of the special reports submitted by me on the subject.

I am glad, however, to state here that the Corporation has been pleased to accept the scheme proposed by me of the establishment of an outdoor Tuberculosis Clinic for which provision has been made in the Budget and active steps are taken to prepare the necessary plans and estimates.

General Death-rate of the City.

The City of Rangoon is unique in more respects than one. It is the largest immigration and emigration Port in the World outstripping even New York, the world's recognised largest Port in this respect. Our City is subject to many an adverse circumstance that other Cities in the East are free from. This obviously reflects upon the health and sickness of the people and the general mortality of the town. I have already dealt with this subject at some length in my Memorandum submitted to the Health Enquiry Committee in the year 1926 and here I will deal with only one or two principal factors which adversely affect the general death-rate of the City.

Year.	, I	mmigration	1. mabiq	nin ol	Emigration	D ASPL TO STORE	
	Adults.	Children.	Total.	Adults.	Children.	Total.	Remarks.
1928	3,69,910	15,713	3,85,623	25,597	2,220	27,817	to abnound add
le inst			tin dante	2,63,345	and P .4	2,63,315	To'Indian Ports.
1929	3,55,169	14,189	3,69,368	26,948	2,489	29,437	catoo hiin actoo
			-	2,82,344	12,230	2,94, 574	Do,
1930	3,09,483	14,675	3,24,158	25,857	2,479	28,336	
denting and	P. 1084		tal odr	2,98,376	14,053	3,12,429	Do.

The following Table gives the figures of the total number of immigrants and emigrants for the past 3 years :--

From this it will be seen that the total number of immigrants that enter the City through the Port alone comes very near to the total population of the City itself. An equal number is found to leave the Port as well during the year. Our City forms the centre of this movement so to say a huge clearing house. A small portion of this floating mass is absorbed by the City, the remaining pass a short or long period at one time or another of their journey in this City prior to their distribution in other parts of the Province. Thus the populaton at one time or another far exceeds the figure arrived at when the last Census was taken. The actual death returns are based on the last Census figures and thus the rate arrived at is obviously higher than it actually is. We have no means to arrive at the actual population of the City from month to month or year to year as it varies according to the season and the conditions of trade or major works during the year. All the calculations therefore based on a fixed supposed population must necessarily be crude only.

Another great factor which adversely affects the general death-rate of our City is the wide extent of the drink and drug evil prevalent in the labour community of the town which moreover forms the bulk of the general population.

"Ill-clad, ill-fed, ill-housed, it is notorious how these people succumb to the vile temptations offered by the drink and drug shops so promiscuously posted close to their industrial and living quarters which sap the last drop of blood from their half-starved bodies. The disastrous effects of this evil are very insidious in their origin and the general health is so undermined in time that the victims fall a ready prey to all ailments and early death.

With such disastrous evil effects of the drink and drug habit on the mind and body of these ill clad, ill-housed, half starved community, it is little wonder dearth disease and death should be so rampant."

I have quoted this from the Memorandum referred to above. This was written in 1926 and the views expressed here of the half-starved condition of the labour mass received unequivocal evidence only the other day from Lt.-Col. T.F. Owens, I. M. S., who in the course of his address at the local Rotary Club has given a very graphic and so pathetic account of the hundreds of post mortems done by him year after year on bodies sent to the Hospital and the only cause of death he could account for was chronic starvation as would be seen from the extract given below of his address.

" " " To come to the unpleasant fact baldly stated, it is that hundreds of human beings starve to death annually in Rangoon. In using the term starvation I do not mean complete deprivation of food—what I mean is chronic starvation due to insufficient and improper food."

Bodies on Streets.

"Every year the Police pick up off the streets between 400 and 500 bodies either dead or dying. In this number are not included cases in which death resulted from violence. A few of these 400 to 500 cases are due to natural causes as for example Heart Disease, the remainder are those of unfortunates who ill, homeless and utterly destitute, depend on charity for the meagre quantities of food they are able to procure, have daily lost strength until the aggravation of the already existing disease or an attack of Pneumonia or Dysentery or something of the sort has mercifully put an end to their sufferings."

Another great factor which adversely affects the general death-rate is the existence in our City of such large institutes as the Rangoon General Hospital, the Leper Asylum, the Bishop Bigandet Home for the incurables and the Little Sisters of the Poor Home for the Aged and Decrepit.

The Rangoon General Hospital is the largest institute of its kind in this capital City of the Province of Burma and naturally attracts a very large number of patients from all parts of the Province, suffering from various kinds of acute, chronic, or incurable diseases and ailments requiring expert Surgical or Medical treatment. Similarly, a large number of the aged and the incurables from other parts resort to the institutes named above, the only one of its kind in the Province. The mortality rate of the inmates of all these institutes is naturally very high and all the deaths taking place here are recorded in the death returns for this City. The general mortality rate of the town, is obviously thus greatly enhanced.

Of the total number of 9,541 deaths recorded for the year under report as many as 2,134 or 22.37 per cent were accounted for as having taken place in Hospitals and Public Institutions noted above.

These are only a few of the factors adversely affecting the general deathrate of this City. For fuller details I would invite a reference to the Memorandum referred to before.

Now coming to actual facts in spite of such adverse influences, the general death-rate of our town was 24.40 per 1,000 of the estimated population of 3,91,055 for the year 1930. How far short we were in our estimation of the population for the year under report will be seen from the fact that the 1931 Census recently taken has shown that the present population of the City is 4,00,415.

A good portion of the deaths taking place in the Hospitals and Institutes noted above, really speaking, do not belong to our town. Similarly, a certain number of deaths takes place among the large number of visitors coming to Rangoon for business, trade, sickness or other purposes during the year, are also included in our City returns. Thirdly, a large number of infants born in the districts are brought into the City and the prevailing high mortality rate among the infants considerably increases the total death returns of the City though they do not properly belong to the City.

There are many other factors besides but even taking these principal ones the total number of the deaths so included comes to a formidable figure. If the death returns of the City proper be thus corrected and all the outside deaths eliminated from our returns, the corrected or the true death-rate of the City would be found to be much lower than our most sanguine expectations. Now let us see what progress we have made in the general death-rate of the town and pari passu the sickness rate during the past ten years.

From the Statement given at page 41 it will be seen that the total number of deaths in the year 1920 was 12,140 with a death-rate of 41.39 per 1,000 of the Census population or 36.75 on the Estimated population.

In the year under report, the total number of deaths was 9,541 giving a death-rate of 27.61 per 1,000 of the Census population and 24.40 on the Estimated population, that is to say the death-rate of the town has been brought down from 41.39 per 1,000 to 27.61 per 1,000 on the Census population or on the Estimated population from 36.75 to 24.40, a decline of 14 and 12 per 1,000 respectively during the course of the past ten years. In other words there has been a saving of life to the tune of over 5,000 people during the year under review. The amount of sickness rate similary prevented may be taken as ten times as much. If the method of evaluating human life be adopted for this very large number of the lives saved and the economic loss sustained during sickness, one would be amazed to find the colossal return in money value accrued by the comparatively insignificant amount spent after the health administration of the City.

Now a question would naturally arise what has brought about such a sharp decline in the general death-rate of the town within the last few years. The palm of credit should naturally be given to the vigorous action taken by and the strenuous efforts made by those responsible for the health and sanitation of the town but there are other agencies also which should share equally well with any credit due to the health administration of this City. There is no single factor responsible for this great and most satisfactory decline in the death-rate of this City. Forces have been applied for good from all quarters, attacks have been launched against filth, insanitation and unhygienic state of living conditions from all directions, safeguards have been introduced against articles of food and drink exposed for sale which are unsound, unwholesome or unfit for human consumption. Measures have been taken to protect individuals and communities by means of protective lymph vaccines, inoculations and bilivaccines against some of the virulent communicable diseases, purity of the water supplied to the people has been ensured since the introduction of chlorination by me in the year 1925, tube well water supply has been extended to suburban areas, the provision of free outdoor relief to the sick poor of the town at the five Corporation Dispensaries, establishment of Ante-natal and Post-natal clinics, free attendance of Lady Health Visitors and Nurse-Midwives at the time of confinement and after, and a host of other preventive measures taken by the Health Department have all contributed their mite in this satisfactory state of advance made.

The Rangoon Development Trust too have not contributed a little towards this decline in the general death-rate of the town. Old slum areas have been cleared, reclaimed and newly laid out, new areas have been created, properly laid out and equipped with pucca drains and roads and any number of new house-sites are made available for the poor and the rich thus helping us not a little in improving the sanitary conditions of the City and ameliorating the woeful living conditions of the people.

The Corporation of Rangoon though has been doing its utmost with the limited financial resources at its command to tackle the various problems of health and sanitation brought to its knowledge by its expert heads of different departments under its control, yet much remains to be done. The housing conditions in our town have been extremely bad. I need only make here a passing reference to the appalling state of overcrowding in the living rooms, I have described in my various reports before, and to the gross inadequacy of the number of beds available for indoor patients in the hospitals provided by the Government for the relief of the sick and poor coming to Rangoon from all parts of Province besides the needs of this City alone with a population of over 4,00,000 people, a vast majority of whom belong to the labour community.

The Local Government's attention has been drawn to this very urgent need of the City sufficiently often, I believe, since I first wrote on this subject in my Memorandum referred to before in the year 1926.

The other two very urgent needs of the rapidly expanding City of ours are the provision of wholesome and adequate supply of water to the whole population and the extension of underground sewers in the suburban portions of the City.

The Corporation is doing its utmost to augment the present supply by providing tube wells in various parts of the town but this supply could hardly meet the full demand at best a mere palliative and at all times a rather precarious source of supply for a City of our size.

Nothing short of a scheme like the Yunzalin one or the one submitted recently by our Chief Engineer, Mr. Mann, would ever meet the growing demands of this City. I have appended herewith (page 56) a copy of the criticisms I have offered on the practicability of the Hlawga Low Level Lake Scheme proposed by Mr. Mann and nothing I consider as of greater importance than the solution of this problem at the earliest date, as the growth, prosperity and general good health of this City is intimately bound up with an adequate and wholesome water supply.

The purity of the present pipe water supply of the City is absolutely above suspicion since the chlorination of our water first introduced by me in the year 1926. By means of efficient chlorine administration, a very high standard of bacteriological purity is maintained and nothing further is needed, I believe, at present in this respect provided the Chlorination of the Lake Water is judiciously carried out year in and year out and sufficient supply of chlorine cylinders maintained in reserve to meet any delay or breakdown in its regular supply from England.

The charts given at pages 59, 60 & 61 give a graphic record of the great progress made and the good results achieved by the Health Department of the Corporation during the period I have been as its Administrative Head, a record of work and progress of which any Health Officer in the East or West would justly be proud of.

When the time comes, I shall lay down my pen with a deep sense of gratification for having done my duty to the best of my ability and what little good I have been able to achieve I am not unmindful of the hearty and loyal help and co-operation of my Assistant Health Officers and all the other outdoor and indoor staff without exception to whom I extend my most grateful thanks as without their willing acceptance of all my orders and mutual good will and co-operation, such a brilliant record of good work done could hardly have been achieved.

Before I conclude I cannot help placing on record an humble tribute of my most grateful thanks and deep sense of gratitude to our late distinguished. Commissioner, Gavin Scott, Esq., M.A., C.I.E., I C.S., whose ever courteous treatment and unstinted help, advice and support during the greater term of my office were the real source of pleasure and strength to me in my efforts to lighten the burden and the heat of the day on many a occasion.

It is a pleasure to record my tribute of grateful thanks to our present. Commissioner, U Set, B.A., who has been equally kind and willing to help mylabours.

> K. R. DALAL, L.M. & S., D.T.M., D.P.H., Health Officer, Corporation of Rangoon_

Dated, Rangoon: The 26th May 1931.

APPENDIX A.

Note by the Health Officer, Dr. K. R. Dalal, on the present system of Conservancy and Transport.

Before 1912, Conservancy was originally under the charge of the Health Officer. Then for a year or two it was transferred to the Chief Engineer. Throughout this period the only source of transport was by means of bullock carts and the Veterinary Officer was in charge of the bullocks and the carts. It was soon found that unless full control of the method of disposal of the rubbish at the depot and its collection and removal from the town by means of bullock carts was given to one agency, the work of conservancy could not be carriel out satisfactorily. Hence the whole operation of the conservancy work was finally extrusted to the sole control of the 'Veterinary Officer.

When I was asked to take over charge of the Health, the Conservancy and the Veterinary Departments in the year 1924 under my control, I had made certain proposals to run the Conservancy branch side by side with the Sanitary branch of the Health Department so that the four Assistant Health Officers of the proposed four divisions of the town will have direct supervision of the conservancy work as well side by side with the sanitary and other activities of the health department, and it was proposed to leave all other sections of the Veterinary Department connected with animals to the Veterinary Officer. So far as the removal of rubbish was concerned, I had condemned outright the existing system of transport by means of bullock carts and my views were accepted by the Corporation giving sanction to the immediate purchase of six Leyland Motor lorries for the removal of rubbish. In this way, the Motor Transport system came into being and its subsequent growth and development under my charge in close collaboration with Mr. Tuppen who was later appointed as the Motor Transport Officer in charge of the lorries in addition to his charge of the Fire Brigade, is an event of recent history. This system of dual control, however, was soon found to suffer from the same defects that were noted in 1912 and it soon became evident that unless full control of the transport rests with the same officer who has control over the sweeping and collection of rubbish, work cannot be performed quite satisfactorily.

The whole method of rubbish disposal in Rangoon Town rests upon proper sweeping and collection of all town refuse, rapid removal of all collected refuse by means of motor lorries and its final disposal at the rubbish-tips as at present with the least possible nuisance inevitable under the existing conditions or by means of destructors in the near future. The whole process is a complete system of which all the parts are inter-related. Any breakdown at any stage means dislocation of the whole machinery.

It will be therefore evident that unless the whole machinery is under the control of one directing head, it is never likely to work smoothly with any regard for efficiency or economy. It was mainly on this consideration and the fact that more and more of the machinery concerned in the process, involved a higher grade of mechanical skill as the scheme for Destructors so persistently advocated by me was at last already under consideration, that the post of the Chief Transport Officer was created and he was made solely responsible for the proper conservancy of the town as well. This scheme was practically given effect to since the month of February of this year and a certain amount of experience has been gained since then. As explained by the Commissioner in his note dated 12th August 1930, since the Chief Transport Officer has submitted his resignation, the time seems opportune to take stock of the whole position again.

The present arrangement costs the Corporation a good bit of money and it is a question for the Corporation to decide whether a fair amount of return is obtained in lieu thereof.

The Supervising Staff of this branch at present consists as follows :--

Chief Transport Officer.

Rs. 1,000-1,500. M.C.A. Rs. 150.

Conservancy.		Motor Transport.		
Supdt. Day.	Supdt. Night.	Transport Y Foreman.	ard Foreman.	Traffic Foreman.
300-400	300-350	350-400	150-200	150-200
H.A. 50	H.A. 50	H.A. 40	H.A. 50	C.A. 50
C.A. 75	C.A. 75			H.A. 50

It gives roughly a total monthly expenditure of Rs 3,000 on the Superior Supervising Staff alone. To this the Chief Transport Officer has now made a proposal to add some more hands. This might bring the cost of this department to a much higher figure still. The point is "is it worth so much". I know of no other Municipality in the world where the amount spent on the subject of conservancy alone amounts to such an extravagant figure proportionately to our town. There is no gainsaying the fact that the day and night conservancy of the town is so intimately connected with the proper sanitation of the town and the health and well-being of the Public that it is highly undesirable to divorce this branch of sanitation from the health department and deprive the head of this department of any direct control or executive authority over the proper cleansing of the town. We have had ample opportunities and ample time to judge of the efficacy or otherwise of the running of the conservancy side of this department under the guidance and authority of Officers who have had no special training in matters of public health and sanitation and all the experience of our efforts made in the past for the proper working of this department under various heads points to the one inevitable conclusion that the health department is the only most competent authority under which conservancy could be carried cut most efficiently from the public health point of view. But the sine qua non of its efficiency lies in the fact that the head

inoreuse the efficiency of the work.

of the department should have the sole control and direct executive authority over all the phases of its operation constituting as it does of sanitary manual and mechanical problems.

This question of the conservancy department was under consideration for a considerable period of time before it was finally settled in November of 1928 and the then Transport Officer had naturally abstained from keeping the whole mechanical side of the department up-to-date and its natural course of evolution was more or less kept at a standstill. When it was finally decided it was to be handed over to a new officer who was not cognisant of the state of affairs prevailing in Rangoon-added to that unfortunately the serious disturbances that followed the recent riots in the City followed by the desireof the newly appointed Chief Transport Officer to resign his post before the probationary period of his service-a further set-back was given to the progress of this department.

The whole machinery of this department is being thus allowed to drift into a very precarious condition and a very serious situation will soon arise.

Our fleet of lorries needs immediate overhauling, new projects will soonhave to be evolved for final disposal of our town rubbish, the existing rubbish tips are not inexhaustible, the Kemmendine one is closed since long, the Ahlone will have to close down in a year or two and the only remaining one at the-Mill Road will last for a short term. The Corporation will soon have to decide once for all if the modern destructors are to be harnessed to our machinery or a fresh land of some 500 or more acres of land, low-lying and within easy reach of the City, should be searched for. I would thereforeheartily endorse the recommendations made by the Commissioner to transfer this department once again to the Health and appoint a separate Transport Officer possessing necessary qualifications for the nature of the work he would be expected to shoulder and held immediately responsible to the Health Officer whose active collaboration would be absolutely essential in all projects dealing with the rapid transport and final disposal of all town refuse with theleast possible nuisance in its widest sense. This Officer will have sole control of the mechanical side of the machinery, the transport depot and the rubbish tips and the destructors in its final evolution.

For an Officer of this standing and merit, possessing qualifications of a. first class engineer, the salary offered should not be less than Rs. 750-1,000per month.

In view of the fact that the Corporation have expressed their keen desire for economy by the appointment, recently made of a Special Committee, I think the best solution of this problem lies in accepting the Commissioner's recommendation to place this department once again under the Health Officer who possesses such an efficient and highly trained staff who would do honour to any City in the West, and thus secure the benefit of this trained staff already at our disposal to help the conservancy and at the same timeincrease the efficiency of the work. If the Commissioner's proposal be approved, I shall be glad to re-arrange the Health Department and relieve one of the Assistant Health Officers to take over sole charge of the conservancy work of both Day and Night without any other extra staff or expenditure. In that event, instead of the Chief Transport Officer on Rs. 1,000—1,500, the Corporation need appoint one Transport Officer on Rs. 750—1,000 only and place him directly under the Health Officer.

K. R. DALAL,

L.M. & S., D.T.M., D.P H., Health Officer, Corporation of Rangoon.

Dated Rangoon : The 2nd September 1930.

APPENDIX B.

Note by the Health Officer, Dr. K. R. Dalal, on the proposed Hlawga Low Level Lake Scheme.

Chief Engineer.

Thanks very much for sending me a copy of your printed report on the proposed Hlawga Low Level Lake Scheme.

Of all the Schemes for an extension of the Rangoon City Water Supply so far studied by me, I consider your scheme as the most practical one from all points of view.

To begin with, the water-spread and the catchment area selected in this scheme lies east of our existing Hlawga Lake, and not very far from the town. All the data concerning rainfall, nature and permeability of the soil, gradient, sources of contamination, etc., are already in our possessior. There is in existence a long record of the series of dry and wet years for the past many years, so also of the seepage and evaporation in this area. Calculations based on these records would be more or less infallible.

II. The catchment area of the New Reservoir about 20½ square miles. of which 13 square miles would be water-spread, compares very favourably with the 10.3 square miles of the total catchment area of the existing Hlawga. Lake of which only 3.9 square miles are water-spread.

111. After taking into count the losses due to evaporation and seepage the new reservoir would leave in balance about 2,158 million cubic feet of water for storage and supply or sufficient for a maximum daily supply of about 37 million gallons against $12\frac{1}{2}$ million gallons for our Hlawga Lake at present.

IV. So the capacity of the new lake combined with the old would be considered to be not less than $47\frac{1}{2}$ million gallons per day in a normal year and 35 million gallons in a dry year as per statement given on page 8 of your printed note. V. According to your calculations, if the daily maximum supply per head be restricted to 60 gallons, this new scheme plus the existing Hlawga ought to supply the needs of the City up to the year 1985 or say for 50 years hence. You have based your figures of population at 400,000 in 1935 with a yearly increase of 7,500. These figures, I am afraid require to be modified. The Census figures just completed shows that the Rangoon City has already exceeded 400,000 by now in spite of the fact that between 30,000 and 40,000 have already left Rangoon for good since the last disastrous Riot and the town is depleted of a similar number or more on account of the big depression in trade all round and the closing of over half the number of Rice Mills of the City. So had it not been for these factors, the population of our City this year would have far exceeded the figure of 400,000 as anticipated by me as far back as 1926 in my Memorandum on the Health Enquiry Committee.

So it would be better to correct the figures given in the Table at the bottom of page 8 of your printed notes assuming the number of consumers as Census 400,000 or Estimated 460,000 in 1931 with a yearly increase of 10,000 on an average.

VI. Looking to the unique conditions of the huge migratory population of the labour community in this City, Rangoon being the principal port of emigration and immigration annually of over 350,000 people each way, there is always such a large influx of people at one time or another during every season of the year that it would be far safer to take the figures given by me for our calculations on the total quantity of water consumed per day. Again the full development of the extensive areas in the suburbs of the town has not taken place as yet and when the sewerage system is extended to these areas the consumption of water per head will also go up not a little. I am therefore inclined to be less optimistic than yourself in my forecast of the probable supply of water from this source to last for more than 30 years from hence, under normal conditions, and not 50 years as predicted by you.

VII. Another great advantage of your scheme is that the water impounded in the reservoir will mainly be the rain water and the amount of rainfall we know from past experience is more or less extremely reliable in this area. There are no great villages, towns or suburbs closeby to contaminate the water supply and the quality of the accumulated water substantially good.

Besides, storage itself as you say is a good purifying agent but I would here very strongly urge upon the advisability of ante or post filtration after sterilisation with Chlorine. This will ensure a perfectly safe water supply for the poorest of our consumers.

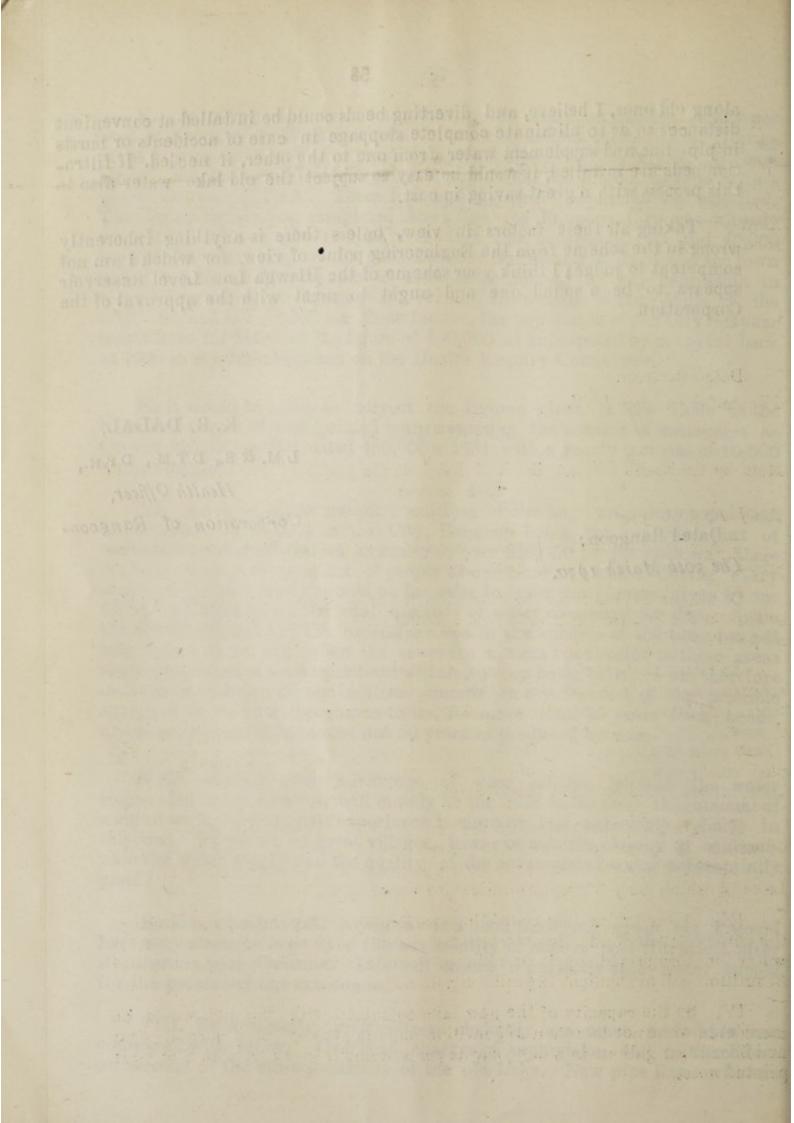
VIII. Economically, your scheme obviously is a much preferable one compared with others. Overhead charges of supervision will be much less on account of the close proximity of the old Lake. New pipe lines will run along old ones, I believe, and diverting bends could be installed at convenient distances so as to eliminate complete stoppage in case of accidents or bursts in pipe line and supplement water from one to the other, if needed. If filtration beds are installed, it would be easy to subject the old lake water also to this process with a great saving in cost.

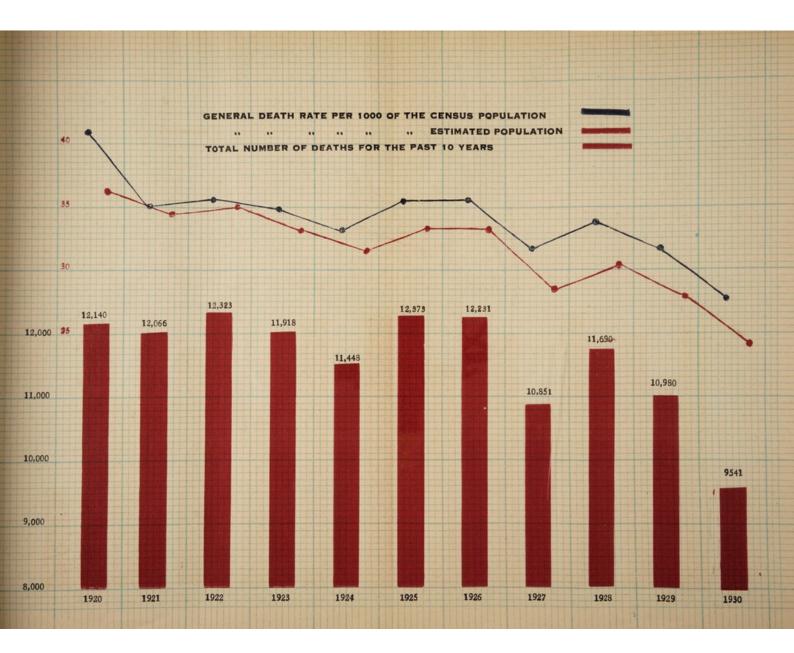
Taking all these factors in view, unless there is anything inherently wrong in the scheme from the Engineering point of view, for which I am not competent to judge; I think your scheme of the Hlawga Low Level Reservoir appears to be a sound one and ought to meet with the approval of the Corporation.

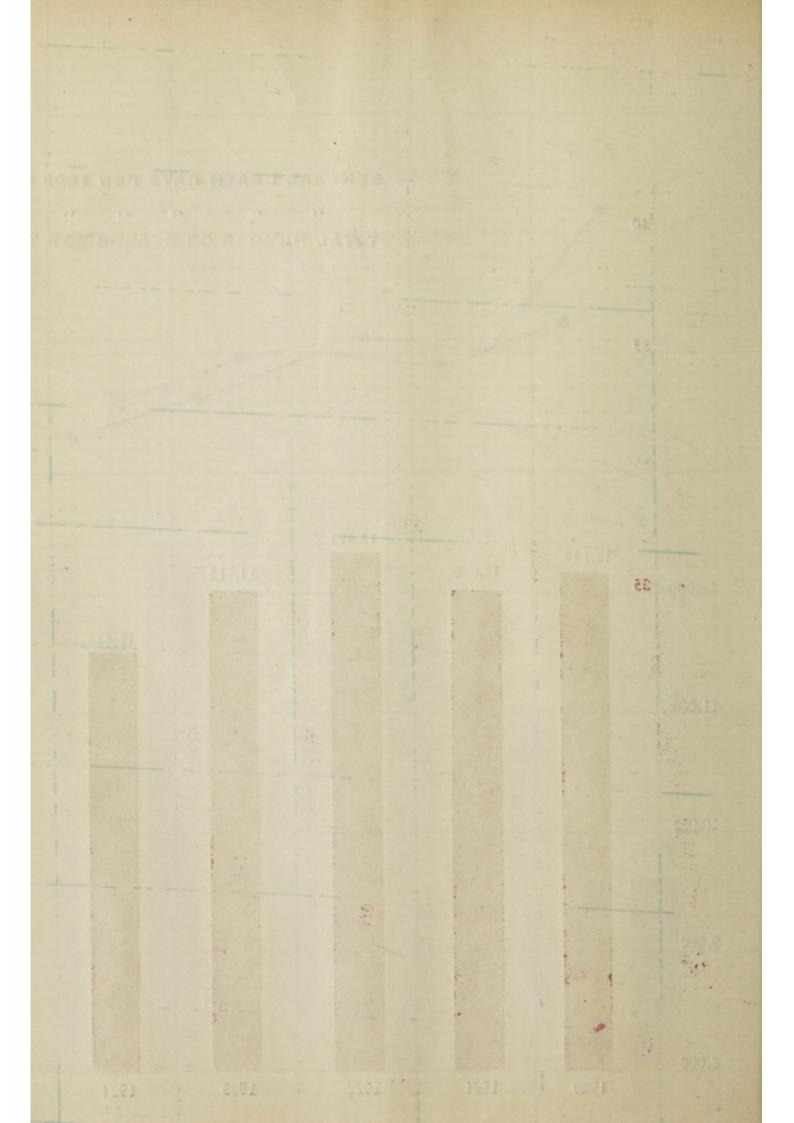
K. R. DALAL,

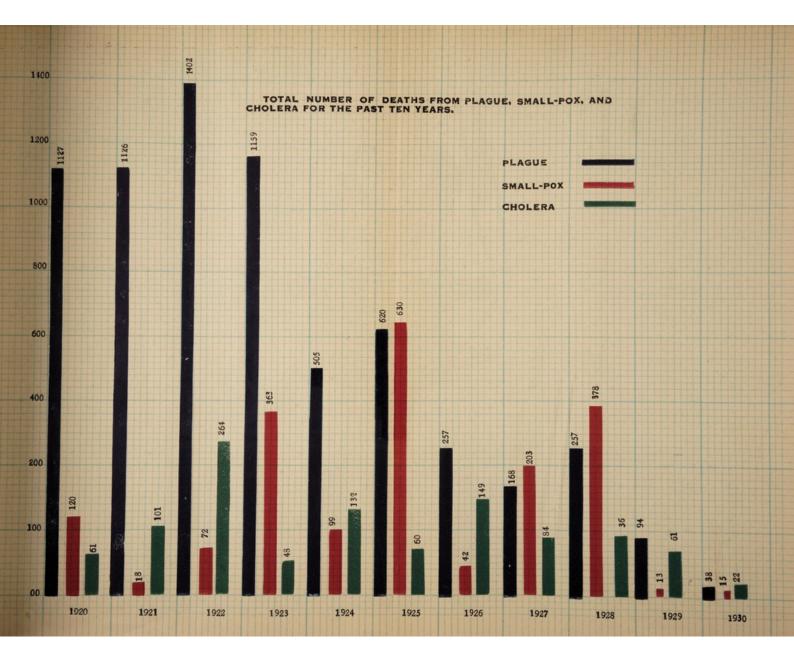
L.M. & S., D.T.M., D.P.H., Health Officer, Corporation of Rangoon.

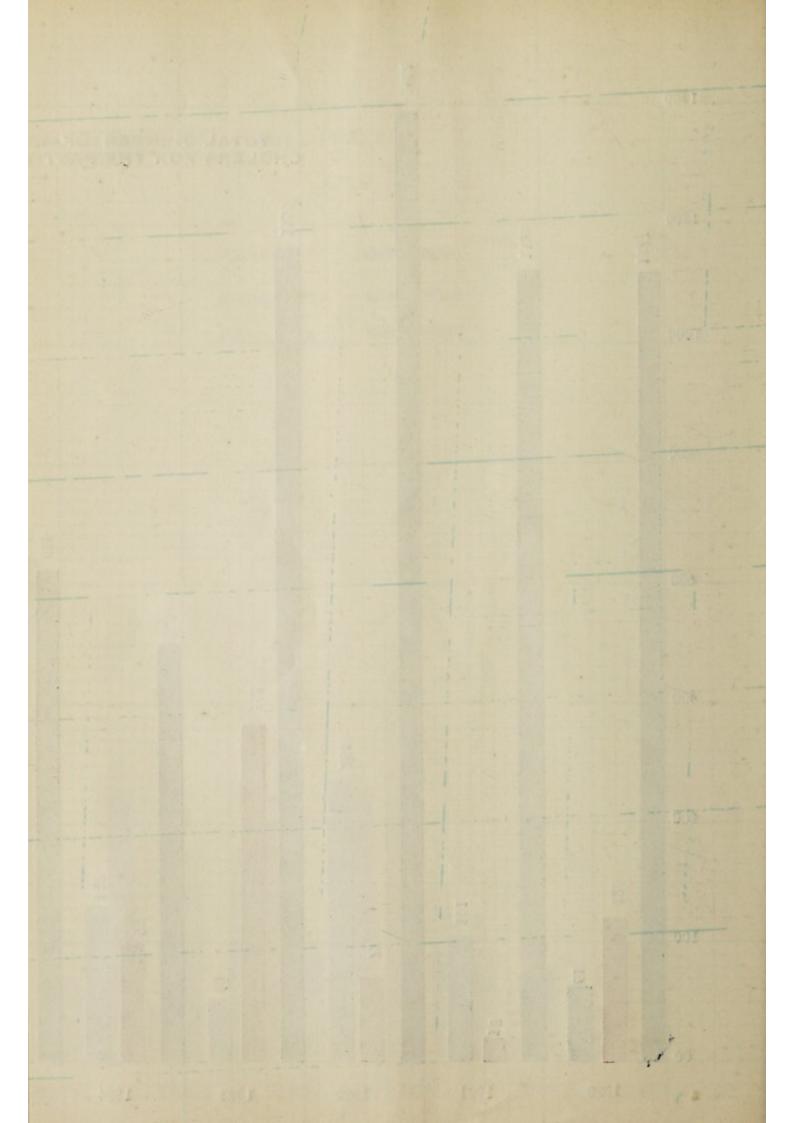
Dated Rangoon: The 30th March 1930.

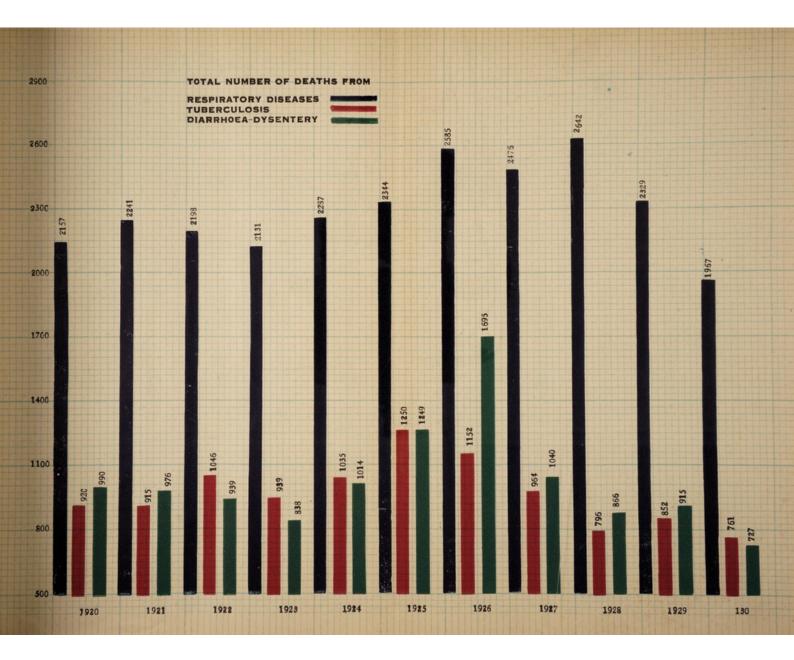


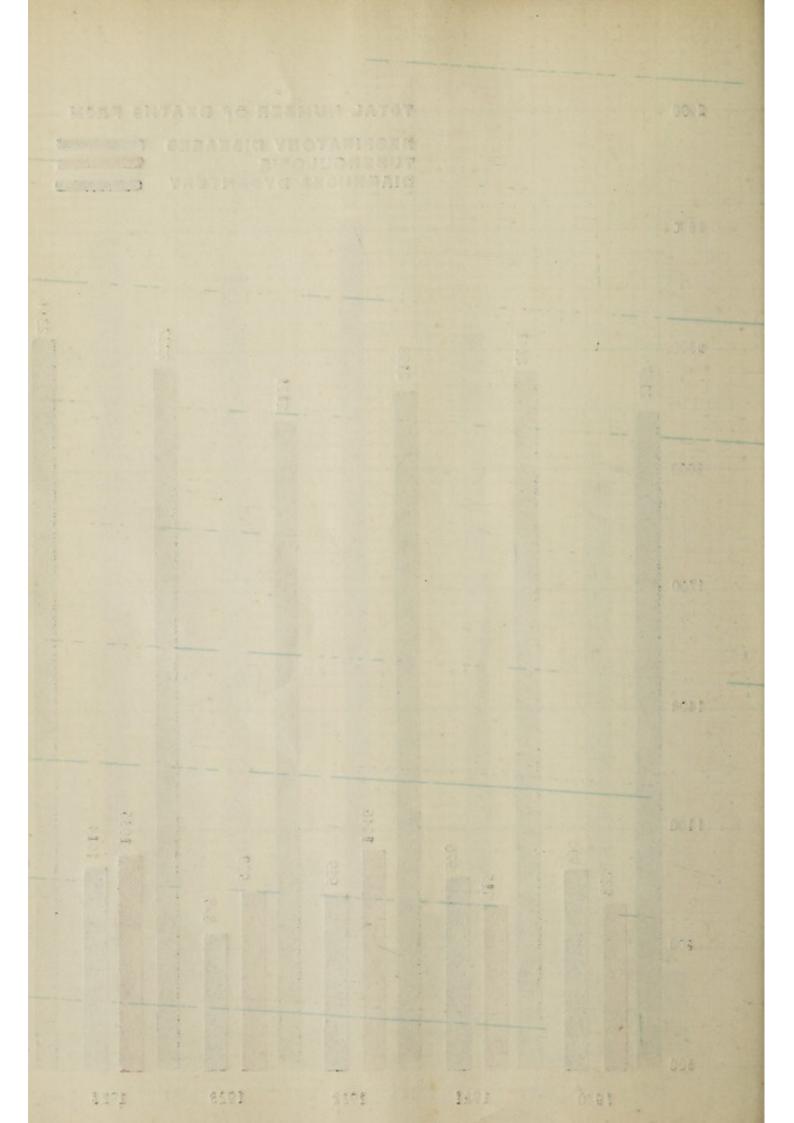












VACCINATION REPORT FOR THE CITY OF RANGOON.

FOR THE YEAR 1930 31.

The total number of vaccinations performed during the year 1930-31 was 2,06,859. This figure includes 1,82,247 vaccinations performed among passengers on arrival of Steamers from other Ports, by the Corporation Vaccinators under instructions of the Port Health Authorities and 332 vaccinations performed by Private Medical Practitioners. The Table below gives the comparative figures for three years :--

Year.	Vaccinations in Town by Corporation Staff.			ations by Private al Fractitioners.	Chin Wassingt's as	.0-8-1	
	Primary. Re-vaccinations.		Primary Re-vaccinations.		Ship Vaccinations	Total.	
Private	1 1,803 e	in nonned di	Loo H dr	228 to the PI	() stolenious	V mone	
1930-31	8,176	16,104	220	112	1,82,247	2,06;859	
1929-30	9,406	21,002	230	325	2,16,854	2,47,817	
1928-29	9,538	28,661	.240	505	1,86,966	2,25,910	

The number of successful vaccinations was 11,431 showing an increase of 809 as compared with the figures of 1929-30 and a decrease of 3,845 as compared with the figures of 1928-29.

6,178 children under the age of six years were successfully vaccinated showing an increase of 1,188 and a decrease of 1,613 as compared with figures of 1929-30 and 1928-29 respectively.

3,257 vaccinations were performed in Rangoon Central Jail.

Staff.—The total number of vaccinators employed during the year was 21 excluding 11 Lady Health Visitors and Nurse-Midwives who help to a slight extent in vaccinating women and children. The work of these Vaccinators is supervised by the Assistant Health Officers and Medical Registrars of the respective divisions

The 4 temporary Vaccinators entertained in July 1928 for vaccination of in-coming passengers from other Ports continued to work at the Port Health Station under the supervision of the Port Health Officer.

Cost.—The cost per head per vaccination during the year was 0-2-10 and that of each successful case was Rs. 3-4-0 as compared with 0-2-8 and Rs. 3-14-1, respectively in the year 1929-30, details of which are given below:—

Year.	Primary Vaccina- tion in Towns.	Re-vaccina- tions in Town.	Ship vaccina- tions.	Total Vaccina- tions.	Total suc: cases (by Staff & Private Practitioners.)	Total expen- diture includ- ing salaries of Asstt. R. Vs.	Average cost per suc: Vacci- nation.	Average cost per vaccina- tion.
ALCONG 3	· 10:00-3.		Lund b	perform	AMONTEDIOS	Rs.	Rs.	Rs.
1930-31	8,396	16,216	1,82,427	2,06,859	11,431	37,154-6-9	3- 4-0	0-2-10
1929-30	9,636	21,327	2,16,854	2,47,817	10,622	41,229-15-9	3-14-1	0-2-8

The average cost of each successful vaccination performed by the Corpration staff in the town was Rs. 2-10-6 and that of each vaccination was Rs. 1-3-6.

Lymph :--Lymph was obtained from Meiktila throughout the year. Of 63,889 tubes of vaccine lymph obtained, 15,589 tubes were issued to the Corporation Vaccinators, 43,278 to the Port Health Station and 1,803 to Private Medical Practitioners, etc., leaving a balance of 3,219 tubes at the end of the year.

Prosecutions:-There was no prosecution for failure to report Small-pox cases.

Three prosecutions were instituted under the Vaccination Act and all are still pending in Court.

Small-pox:—The total number of attacks for the year 1930-31 was 34 with 6 deaths as compared with 43 attacks and 14 deaths during the year 1929-30 and 315 attacks and 125 deaths during the year 1928-29.

Annual inspection of School children is generally carried out in the months of June and July and all children found unprotected are vaccinated or served with notices to be vaccinated.

During the year under report 149 Schools were inspected and out of 22,740 children inspected 3,488 were vaccinated.

Systematic inspection and vaccination of all Mills and Cooly barracksare carried out from January to March during the time when immigration is at its height. 51 Mills were inspected and out of 9,353 coolies inspected, 4,514 were vaccinated.

Rules for Re-vaccination:—Under the provisions of Section 12-A of the Burma Vaccination Law Amendment Act, 1909, the Corporation with the sanction of the Local Government have framed rules for re-vaccination of any person who has attained the age of 12 years and has been a resident of this City for the past one month or over. Action is now being taken to enforce these rules.

because -- The first two groups of buildings have a rate

of which is used as an office, the other as a dispension, and

K. R. DALAL, L.M. & S., D.T.M., D.P.H, HEALTH OFFICER, Corporation of Rangoon.

Dated, Rangoon: The 23rd April, 1931.

ANNUAL REPORT ON THE WORKING OF THE CONTAGIOUS DISEASES HOSPITAL,

Municipal Corporation of Rangoon.

For the Year Ending 31st December 1930.

Population of Rangoon 3,45,505 :- This report has been drawn up in accordance with the instructions contained in the Circular Memorandum. No. 16706-1R-14, dated Rangoon, the 13th November 1930, issued by the Inspector-General of Civil Hospitals, Burma, and all the information given here follows the sequence given therein and the paragraphs have been correspondingly numbered for purposes of reference :--

I. Class of hospital and Date of opening.—This hospital was transferred to the Municipal Committee of Rangoon on the 1st October 1920 and would thus be placed under the classification—Class III, Local Fund.

II. Hospital Buildings.—These consist of three main groups of buildings for the accommodation of patients; the first group consisting of nine large wards and holding 228 beds is reserved for Burmese and Indian male patients; the second of three small wards containing 24 beds in all for the female patients of the same two Communities and the third of three wards with 18 beds for European and Anglo-Indian patients of both sexes.

Structure.—The first two groups of buildings have a raised pucca flooring with bamboo mat walling and dhunee leaf roofing and the third has a pucca flooring with asbestos tile roofing.

Subsidiary Buildings.—(1) A main building consisting of three rooms, one of which is used as an office, the other as a dispensary, and the third as Sub-Assistant Surgeons' Duty room.

(2) Kitchens—three in all—one for the Burmese and Indian patients, the second for the Europeans and Anglo-Indians, and the third has been reserved for the Hindus who refuse to take food handled by others owing to caste scruples.

(3) Nurses' Duty room.

- (4) Quarters for the Menial staff.
- (5) Mortuary,
- (6) Store-rooms.
- (7) Dhoby Wash-house.

All these buildings are located in different parts of the compound according to their needs and convenience.

The following new works were carried out during the year under report;-

(1) Balance payment for constructing store-room referred to in last year's report Rs. 683-14-0.

(2) Balance payment for constructing kitchen referred to in last year's report Rs. 16-10-0.

(3) Renewing the roof of European ward and Nurses' Duty room-Rs. 1,953-15-0.

III. Hospital Equipment.—There is nothing in particular to state regarding the Surgical and General equipment of this hospital. Everything necessary for its proper maintenance has been maintained.

IV. Hospital Staff.—Dr. B. P. Srivastava, M.B., B.S., D.P.H., was in charge of the hospital till 16th March 1930 after which Dr. K. P. Pillai, M.B., E.S., D.P.H., took over charge of the Hospital

The subordinate medical staff of the hospital consists of one Assistant Surgeon and three Sub-Assistant Surgeons.

The permanent staff of the hospital during the year under report consisted of the following:-

1 Medical Officer.

- 1 Assistant Surgeon.
- 3 Sub-Assistant Surgeons.
- 1 Sister-in-Charge.
- 7 Nurses.
- 1 Clerk-Steward.
- 2 Compounders.
- 16 Wardboys.

- 6 Female Attendants.
- 16 Ward-Sweepers.
- 6 Female Sweepers.
 - 2 Cooks.
 - 1 Waterman-Lampman.
 - 2 Office peons.
 - 2 Gate Durwans.
 - 2 Dhobies.

1 Mali.

The three Sub-Assistant Surgeons work in shifts of two for day and one for night duty in rotation so that there is one Sub-Assistant Surgeon always on duty both day and night. The nurses work in shifts of four for day and three for night duty in rotation. The ward-boys, ward-sweepers, female attendants and female sweepers work in shifts of half for day and half for night. The Sister-in-Charge is responsible for the work of Nurses and Ward Attendants. No extra temporary staff was engaged during the year under report.

V. Hospital Management and Finance.

Since the transfer of the hospital to the control of the Corporation all the charges necessary for the proper up-keep of the hospital have been borne by the Corporation. The Government of Burma has been contributing Rs. 40,000 every year towards the maintenance of this and the Observation Hospital.

The following Table gives the number of patients admittel into the hospital from within Municipal limits as compared with those from outside the Municipal area during the year under report :--

Within Municipal limits.	Outside Municipal limits.	Total.
685	147	832

VI. Hospital Patients.-General Statistics.

TABLE	No. 1.
-------	--------

Diseases.	Patients remaining in Hospital on 31st December 1929.	Number of patients admitted during the year 1930.	Total number treated.	Dis- charged cured.	Died.	Case mortality per cent.	Patients remaining in hospital on 31st December 1930.
Plague	10000000	18	18	3	14	77.77	Di
Cholera	1	23	24	12	12	50.00	
Small pox	1	40	41	35	6	14.63	
Chicken-pox	5	- 404	409	406			3
Measles	1	111	112	97	2	1.79	13
Mumps	6	42	48	48			
Diphtheria		14	14	10	3	21.43	1
Erysipelas		13	13	10	1	7.69	2
Influenza							
Cerebro-Spinal)		2	2		2	100-00	all the and
Meningitis Diarrhoea	Alle exclusion	4	4	3	1	25.00	
Adenitis	1.10.8"1108	6	6	6	1 21 12 12 12 12 12	The State of	on daty o
All other diseases	3	155	158	129	28	17.72	thref" for
GRAND TOTAL	17	832	849	759	69	8.13	21

TA	BL	E	No	. II.
			110	

68

1929.			1930.		
Male.	Female.	Total.	Male.	Female.	Total.
797	97	894	721	128	849

Table No. III.

Voluntary Ad	mission.	Those sent by the H Port Trust Aut General Hospital, Hospital, etc.	horities, Rangoon
1929.	1930.	1929.	1930.
332	333	562	516

(b) The total number of cases treated during the year under report was 849 of which 721 were males and 128 females, compared with the corresponding figures of 894, 797 and 97 of the previous year.

The total number of voluntary admissions was 333 compared with 332 in the previous year.

The following Table gives the percentage of voluntary admissions to the total number treated during the year as compared with that of the previous year :-

I aoi	e No. IV.
1929.	1930.
37.14	38.22

(c) The daily average attendance as compared with the previous year was as follows :---

Table No. V.

_	919	14.01	TR-P	
	1929.	10.07	1930.	
-	* 35		32	30

(a)

The largest number treated on any one day during the year was as follows :--

Jung E	1929.	all all all	1930.	Made.
019	131	1	114	197

The respective dates on which this happened were the 7th March 1929 and 21st March 1930.

(d) The following Table gives the total number of deaths and death-rate per cent :--

	TA	BL	E	No	. 1	V	II	
--	----	----	---	----	-----	---	----	--

	1929.	• 193	30.
103	11.52	69	8.13

The total number of deaths during the year under report was 69 giving a death-rate of 8.13 per cent as compared with 103 and 11.52 per cent. of the previous year.

The general death-rate in an infectious diseases hospital is liable to. great fluctuation according to the epidemic prevalence of one or more diseases. In this way only we can account for the lower death-rate in the year under report compared with the previous year.

The total number of beds available in the hospital for males and females is as follows :--

Males.	Females.	Total.
240	30	270

The following Table gives the percentage proportion of the different races. treated :-

Year.	Europeans and Anglo-Indians.	Burmese.	Mohammedans.	Hindus.	Other Classes.
1929	10.07	7.61	15.21	64.54	2.57
1930	11.54	6.48	15-67	63.72	2.59

TABLE No. VIII.

The largest number of admissions have been from the Hindus and Mohammedans. Of the total number of cases treated there were 98 Europeans and Anglo-Indians, 55 Burmese, 133 Mohammedans, 541 Hindus and 22 of Other Classes, giving a percentage proportion as shown in Table No. VIII.

VII. Prevailing Diseases.

The following Table gives the total number of the different infectious diseases treated during the year under report as compared with the previous year :--

Diseases.	E No. XI.	1929.	1930.
Plague Cholera Small-pox Chicken-pox Measles Mumps Diphtheria	···· ··· ··· ···	39 57 47 325 36 170 11	18 24 41 409 112 48 14
Erysipelas Cerebro-Spinal Meningitis Influenza		9 2 	13 2

The following Table gives the total number of cases of different diseases treated during the year under report with the total number of deaths and the case mortality rate per cent of the respective diseases as compared with the previous year:—

		1929.		1930.				
Diseases.	anii anout	Total Number treated.	Jo sette unn N N Case morta- lity per cent.		Total Number treated.	Number of deaths.	Case morta- lity per cent	
Plague		39 57	30	76.92	18	14	17.77	
Cholera		57	28	49.12	24	12	5.0.00	
Small-pox		47	11	23.40	41	6	14.63	
Chicken-pox Measles		325			409 112	2	1.79	
Munps		36			48	Z	1.19	
Diphtheria		170			14		21.43	
Erysipelas		11 9	"i	11:11	13	1	7.69	
Cerebro-Spinal		9		mm	15	1	105	
Meningitis	2.0	2	9	100.00	2	2	100.00	
Influenza			2		and a state of the	A REAL PROPERTY.	-10010.003.5	
Diarrhoea		7				····· ··· ··· ··· ··· ··· ··· ··· ···	25.00	
Adenitis		12			6	-	TO DO DEPOSE	
All other Diseases		-179	-31	17.32	-158	28	17:72	

The 28 fatal cases recorded under all other diseases during the year were due to the following causes :--

TABLE No. X.

Dysentery 6, Pneumonia 5, Pyrexia of uncertain origin 4, Tuberculosis of the Lungs 1, Tuberculous Diarrhoea 1, General Debility 1, Valvular Disease of the Heart 1, Syncope 1, Chronic Diarrhoea 1 and Gastro-Enteritis 7.

PLAGUE.

18 cases of plague were treated during the year under report of which 14 were males and 4 females. There were 3 recoveries and 14 deaths (and 1 remaining at the end of the year) giving a case mortality of 77.77 per cent as compared with 76.92 per cent of the previous year. Out of 14 males, 12 died and out of 4 females, 2 died.

The following table gives the duration of the illness on the day of admission into the hospital:-

TABLE No. XI.

Total No.	On 1st	On 2nd	On 3rd	On 4th	More than
treated.	day.	day.	day.	day.	4 days.
18		7	8	1	2

The following table gives a list of Plague cases that had proved fatal within six hours, twelve hours and twenty-four hours of their admission into the hospital:—

|--|

Total No. of deaths.	No. of deaths within six hours of admission.	No. of deaths within twelve hours of admission,	No. of deaths within twenty-four hours of admission.	Grand Total No. of deaths within twen- ty four hours of admission.
14	4	3	* 3	10

Out of the total of 14 deaths, 10 died within the first twenty-four hours of admission into the hospital, being in a more or less moribund condition at the time of admission.

The following table gives the variety of the disease with the total number of admissions, deaths, and the case mortality rate under their respective heads :--

Varieties	Total No. treated.	No. recovered.	No. died.	Case mortality rate per cent.
Bubonic	 17	3	13	76.47
Pneumonic Septicaemic	 "i		ï	100.00
Cutaneous	 			

From the above Table it will be seen that the largest number of cases admitted were of the Bubonic type, giving a case mortality of 7647 per cent.

TABLE No. XIII.

se morte	Month.	-No.	No. admitted.	No	. cured.	No. died.	Case mortality
Remaining from	n previous year	·]	Nil.				
January			2	1	1	nervice year	50 00%
February				8	1	B	75-00
March		×	1	8		4	100.00
April			1	1.2.	30.0	1	100.001
May		1	1	1		1	100.00
June		e	8 1	2		1	100.00
July		·	2	2		2	100.00
August			1			1	100.00
September				1 444			
October			**3	1			and
November			1	7.64	1		Cetabor.
December			1	mida			ned move H
	Grand Total		18	2.04	3	14	77.77

TABLE No. XIV.

1 case was remaining at the end of the year.

CHOLERA.

24 cases of Cholera were treated during the year of which 12 recovered and 12 died, giving a case mortality of 50.00 per cent. Of the 12 fatal cases, 1 died in the Ambulance, 2 died within 6 hours of admission, 3 died within twelve hours and 3 within twenty-four hours, giving a total of 9 cases who died within twenty-four hours of their admission into the hospital.

Of the total of 24 cases treated in the hospital, 17 were given intravenous saline injections on one or more occasions as required and of these 7 recovered and 10 died. Of the remaining, 6 cases were not given saline injections owing to their pulse and blood pressure being good, 5 recovered and 1 died.

One case was found dead in the Ambulance before he could be removed to the ward.

The following table gives the number of cases admitted, month by month, during the year under report with their respective number of recoveries, deaths and the case mortality per cent :—

Months.		Months. No. admit- ted. No. cured				Case morta- lity.		
Remaining from	n previous year		1	1		···· ····		
January	`		3		3	100-00		
February			3	1	2	66-66		
March			1	i-		1044		
April			1		1	100.00		
May			9	6	3	33-33		
June			5	2	. 3	60.00		
July						··· seupe A		
August						*** 1000100		
September			1 .	1		··· sedesa		
October								
November								
December								
	Grand Total		-24	12	12	50.00		

TABLE No. XV.

Small-Pox.

41 cases of Small-pox were treated during the year of which 33 were males and 8 females. Out of 41 cases treated, 35 recovered, and 6 died giving a case mortality rate of 14.63 per cent.

The following Table gives the total number of attacks and deaths in the males and females of the various communities. :--

TABLE No. XVI.

buing good, 5 recovera		& A	Europeans & Anglo- Indians.		Mobammedans.		Hindus.		Other Classes.			
13400.01.		re 26	М.	F.	м.	F	М.	F.	М.	F.	M.	dF.
Attacks	hay make	1110.6	2		2	1	7	3	22	4	12	1
Deaths						1	1		03	2		2013

The following Table gives the Seasonal variations of small-pox during the year as compared with the previous year :--

40 Sa	М	onths.	out		1929.	1930.
				diate	10000	
Remaining	from prev	ious vesr			1	1
January					7	5
February				3++	14	
March					12	9
April				***	7	
		***			;	5
May					1 1	10
June				1		3 9 3 5 10 3
July					- 2	3
August						1
September						
October			2		1	
November					1	1
December					1 1	fainT
		G	rand Total		47	41

TABLE No. XVII.

Vaccinal condition of Small-pox cases during the year:-(a) Total number of protected cases 29.

The following Table gives a statement of the protected cases :--

TABLE No. XVIII.

No. protected by vaccination.	No. vaccinated & had previous attack of small-pox.	No. unvaccinated but had previous attack of Small-pox.	No. inoculated.	Total No. protected.
29			00	29

(b) The total number of unprotected cases was 12.

(c) Statement of adults and children protected and unprotected :-

TA	DT	E	ы.,	100	VI	IV.
TA	DL	E	110		4	ΙΛ,

786 X 041 34	Pro	tected.	Unpr	otected.
Line Maloue	Adults.	Children.	Adults.	Children.
listor of a total	29	ore, it will be	da movin al	T and 5 and of

			1929,		1930.		
Variety.	-	No. of cases.	No. of deaths.	Case mortality rate.	No. of cases.	No. of deaths.	Case mortality rate.
Modified .					111		Sector L
Discrete		1		•••	2		and the
Confluent		-11	6	54-54	9	3	33.33
Haemorrhagic					1	1	100.00
Total		12	6	50.00	12	4	33-33

(d) Statement of attacks amongst the unprotected :---

(e) Statement of attacks amongst the protected :--

Table No XXI.

			1929.	a near post	1930.		
Variety.	beig	No. of cases.	No. of deaths.	Case mortality rate.	No. of cases.	No. of deaths.	Case mortality rate.
Modified		7	IVX	1.186.2	9		
Discrete		12			7		
Confluent		15	5	33.33%	11		33.33
Haemorrhagic		1			2	2	100.00%
Total		35	5	14.28%	29	. 2	6.90%

The following Table gives the total number of admissions, recoveries and deaths with case mortality of all the cases of Small-pox treated during the year :--

Table No. XXII.

Total No. treated.	Recovered.	Died.	Case mortality rate per cent.	Remaining at the end of the year.
41	35	6	14.63	ettaña

From the various Tables given above, it will be seen that out of a total

Table No. XX.

of 41 cases of Small-pox treated in the hospital during the year, 29 were found to be protected and 12 unprotected.

Of the 29 protected, 9 had an attack of the modified type 7 Discrete, 11 Confluent and 2 Haemorrhagic, both of the Haemorrhagic type proved fatal

Of the 12 unprotected cases which included 5 children, 2 had an attack of the Discrete type, 9 Confluent and 1 of the Haemorrhagic type. 3 out of the Confluent type and the Haemorrhagic case proved fatal.

Of the 5 unprotected children, 1 had Discrete and 4 had Confluent type of the disease. 4 recovered and one died.

The ages of the unprotected children were as follows :--

Age.	0-12 months.	1-5 years.	5—10 years.	Total.
No. of children.	1	8	100,000 01 00 X	5

Of the 2 fatal cases amongst the protected gro up the following vaccinal conditions were noted :-

	Two marks,	Three marks.	More than three marks.
88			11
		1	
162			
			1

The age group of the 2 fatal cases was as follows ;--

1-5	5-10	10-20	20-30	30-40	Above 40	Total.
years.	years.	years.	years.	years.	years.	
		1		1		2

The following Table gives the total number of cases, varieties, and case mortality rate amongst the protected and the unprotected :--

		F I	Protected.		Unprotected.		
Variety.	pitite Iganta	Admitted.	Died.	Case mortality rate.	Admitted.	Died.	Case mortality rate.
Modified]	9	· doi	·····	6.10 m		
Discrete		7			2	at <u>a</u>	the D
Confluent		11			9	8	33.33
Haemorrhagic		12	2	100 00	1	40.1	100.00
Total		29	2	6.90	12	4	33,33

TABLE No. XXIII.

From a comparison of the above figures it will be noted that the severity of the disease and the death-rate are much higher amongst those unprotected by vaccination as compared to those that are vaccinated. Out of the 29 protected cases, only 2 died while out of the 12 unprotected as many as 4 died. Nearly 87 per cent. of the latter were of the severe type.

The following Table shows the prevalence of Small-pox from the year 1911 till the end of the year under report as revealed by the number of patients admitted into the hospital from year to year :--

Year.	1.5	Attacks.	Deaths.	Case mortality rate.
1911		824	238	28.88
1912		899	84	21.05
		223	44	19.73
1913		62	6	9.67
1914		243	49	20.16
1915			162	22.10
1916		733		5.06
1917		158	8	
1918		199	37	18.59
1919		1,120	289	25.80
1920		371	36	9.70
1921		83	9	11.84
1922		215	24	11.16
1923		626	153	24.44
1924	-	260	55	21.15
1925		1,448	257	17.75
1926		121	19	15.70
		649	114	17.56
1927 -		1,109	218	19.66
1928				23.40
1929		47	11 6	14.63
1930		41	0	14'00

TABLE No. XXIV.

Chicken-pox.

The total number of cases of Chicken-pox treated during the year under report was 409 which included 5 cases remaining from previous year. The figure for the previous year was 325. There was no death amongst the casestreated.

Measles.

112 cases of Measles were treated during the year. There were two deaths from those patients due to Broncho-Pneumonia, giving a mortality rate of 1.79 per cent; 97 recovered and 13 were remaining at the end of the year. During the previous year 36 cases were treated with no deaths.

Mumps

48 cases were treated including 6 cases remaining from previous year, compared with 170 cases of the previous year. There was no death.

Diphtheria.

14 cases of Diphtheria were treated during the year. Of these 10 recovered, 3 died and one was remaining at the end of the year, giving a case mortality rate of 21.43 per cent. 11 cases were treated in the previous year with no deaths.

Erysipelas.

13 cases of Erysipelas were treated during the year of which 1 dieds giving a case mortality rate of 7.49 per cent compared with 9 cases, 1 death, and a mortality rate of 11.11 per cent of the previous year.

Influenza.

There were no cases of Influenza either this year or the previous year.

Cerebro-Spinal Meningitis.

2 cases of Cerebro-spinal Meningitis were treated; both of them died giving a case mortality of 100.00 per cent compared with 2 cases, 2 deaths and a case mortality rate of 100.00 in the year before. Lumbar puncture was performed in both the cases.

Diarrhoea.

4 cases of Diarrhoea were treated of which 1 died giving a mortality of 25.00 per cent compared with 7 cases with no deaths in the previous year.

Adenitis.

6 cases of Adenitis were admitted into the hospital as cases of suspected Plague but the bacteriological examinations of the smears from the bubocs were negative.

All other diseases.

Under this heading have been included all other diseases noted under their respective nomenclature in Statistical Form Medical J.

158 cases were included under this heading of which 28 proved fatal. These fatal cases were Dysentery 6, Pneumonia 5, Pyrexia of uncertain origin 4, Tuberculosis of the Lungs 1, Tuberculous Diarrhoea 1, General Debility 1, Valvular Disease of the Heart 1, Syncope 1, Chronic Diarrhoea 1 and Gastro-Enteritis 7.

VIII. All the Surgical work done at the hospital was of a minor character such as opening Buboes, lumbar puncture, etc.

	IX. Expen	diture : -	1925.	1930.
			Rs.	Rs.
(1)	Establishm	ent	62,160	62,488
(2)	Medicines	f European	2,323	1,420
(4)	medicines	{European Country	267	179
(3)	Diet		8,980	7,758
(4)	Miscellane	ous	4,314	5,326
(5)	Buildinge	New Buildings	5,933	2,654
(5)	Dulldings	{New Buildings Repairs	644	5,340
		Te	otal 84,621	85,165

The slight increase under 'Establishment' is due to the usual annual increments,

The decrease under 'Medicines' and 'Diet' is due to the less number of patients treated this year as compared to the previous year, viz. 849 this year against 894 in the previous year.

The increase under 'Miscellaneous charges' is due to electric current charges and also to the installation of fans and lights.

The increase under 'Buildings' is due to the repairs required on account of the peculiar nature of the buildings.

Treatment of any note.

Plague.—No special treatment has been adopted beyond attempting to maintain the heart's action under cardiac stimulants such as Camphor in oil, Digitalin, Strychnine, etc.

Cholera.—The treatment advocated by Sir Leonard Rogers has been adopted, and has given satisfactory results.

Small-pox — The eruptions are touched with a freshly prepared saturated solution of Potas Permanganas; in Confluent cases, the entire body is painted with same solution. Cerebro-Spinal Fever.--No special treatment has been adopted beyond relieving the pressure by lumbar puncture and injecting Anti-meningococcusserum, when necessary.

Concluding Remarks.

The largest number of patients admitted into this hospital came from the poor, many of whom were in the last stages of disease and every effort is made to popularise the hospital amongst them.

There is, however, no doubt of the fact that the present building is so unsuitable for an infectious diseases hospital that its satisfactory administration is growing difficult day by day and it is earnestly hoped that the construction of the new hospital will be taken up as so on as possible.

Lastly, I have to place on record the satisfactory manner in which the hospital staff, one and all, have carried out their duties. The "Times Press." has to be thanked for its generosity in supplying this hospital daily with its Newspaper.

K. P. PILLAI, M.B., B.S., D.P.H., Medical Officer, Contagious Diseases H ospital.

Female Attendant.

Dated Rangoon: The 29th January 1931.

ANNUAL REPORT

ON THE WORKING OF THE MUNICIPAL OBSERVATION HOSPITAL, MUNICIPAL CORPORATION OF RANGOON. For the Year ending 31st December 1930.

This hospital is purely an observation one for cases sent by the Port Health Authorities.

I. Class of Hospital and the Date of opening.—This hospital was transferred to the control of the Corporation on the 1st October 1920 and comes under Class III, Local Fund.

II. Hospital Buildings.—These consist of three large wards measuring 80' x 20' each constructed of pucca floor, mat walling and shingle roofing. Two of these wards are reserved for admission of male patients and the third for female patients. The hospital has accommodation for 80 beds.

Subsidiary Buildings.

(1) Sister's quarters consisting of a plank building 4 feet off site.

(2) Kitchen for the general use of the Hospital.

(3) Two extra cook rooms for use of those patients who prefer to cook their own food

(4) Two sets of latrines for males and females respectively.

(5) Separate washing and bathing places for the use of female patients.

(6) Servants' quarters and kitchens.

III. Equipment.—There is not much to say regarding the equipment of this hospital as this is used purely for observation purposes.

IV. Staff .- The following is a list of the staff :-

2	Ward-boys	1	Cook
2	Sweepers	1	Lampman-Waterman
1	Female Attendant	2	Gate Durwans
1	Female Sweeper	1	Mali

V. Hospital Finance and Management :- All the charges incidental to the proper up-keep of the hospital have been borne by the Corporation, the Local Government contributing Rs. 40,000 per year towards the maintenance of this and the Contagious Diseases Hospital.

VI. Hospital Patients :-

	1929.		1930.		
Male.	Female.	Tetal.	Male.	Female.	Total.
645	91	73;	463	48	611

The total number of cases treated during the year was 511 as compared with 736 in the previous year.

Daily Average Attendance :

1930. 1929. 4

The largest number of cases in the hospital on any one day was 18 compared to 34 of the previous year. The respective dates on which this occurrel were 11th November 1930 and 30th October 1929.

There was no death during the year under report. This hospital is used only for observation purposes and any case showing any signs of illness is immediately transferred to the Contagious Diseases Hospital.

The following Table shows the percentage proportion of various Communities treated :-

Year.	Europeans & Anglo- Indians.	Burmese.	Mohammedans.	Hindus.	Other Classes.
1929	Nil.	0.41	28.80	66.31	4.48
1930	Nil.	0 20	29.94	65.56	4.30

Diseas	Jes.		requi	1929.	Gigsine	C and D	1930.	
Plague					Tainsi	pital Pa	eoff.	ÍV.
Cholera								
Small-pox					an I	10941		
Chicken-pox				1		TARA		
Measles				2		alala	2	
Mumps				2		244		
Diphtheria	?							
Erysipelas						a carak .	. the	
Cerebro-Spinal Meningitis				nees treated		i numbe	alod s	
nfluenza	-					201 810	2	
Diarrhoea				1 55		arage A	2	
Adenitis				1			3	
No Appreciable diseases				257		ASS Rhad	203	
All other diseases				472			299	
		Total		736		Tana and	511	200

The following Table gives the total number of cases found suffering from various diseases on or after admission into the hospital :---

Out of a total of 511 cases treated during the year, 203 had no appreciable disease, giving a percentage of 39.73 to the total treated.

The 299 cases shown under all other diseases consisted of 238 cases of fever which came down in a few days and the following other diseases :--

Dysentery		3	Constipation	1ad
Syphilis		1	Synovitis	
Malaria		2	Dropsy	1
Pneumonia		8	General Oedema	1-
Round Worm	16 and Sect	2	Multiple boils	2
Anaemia		1	Abscess	2
Bronchitis		1	Ulcer -	1
Dyspepsia		08.10	Sores	1 .
Stomach ache		1	Scabies	1

There were only 4 cases of infectious diseases treated during the year out of a total of 511, giving a percentage of 0.78 to the total treated. They were Measles 2 and Influenza 2.

Expenditure :--

	maples, minister for a fin			1929.		1930.
				Rs.		Rs,
(1)	Establishment			2,739		2,725
(2)	Diet			390		24 0
(3)	Miscellaneous charges	•••		250		802
			Rs,	3,379	Rs.	3,767

The decrease under "Diet" is due to fewer number of patients treated this year as compared to last year, viz. 511 this year to 733 in the previous year.

The increase under "Miscellaneous charges" is due to expenditure on re-wiring of electrical connections.

No expenditure has been shown under Medicines, as this is supplied by the Contagious Diseases Hospital.

> K. P. PILLAI, M.B., B.S., D.P.H., Medical Officer, Municipal Observation Hospital, Rangoon.

DATED RANGOON, The 29th January 1931.

ANNUAL REPORT ON THE WORKING OF THE CORPORATION LABORATORY

FOR THE YEAR 1930.

The report is divided into three heads—(a) Chemical, (b) Bacteriological and (c) Miscellaneous.

A. Chemical.

During the year a total of 1,303 samples were analysed.

1. Water.

360 Samples were analysed as follows:-

Source.		Ne	o. of sa	mples	examined.
Hlawga Lake				12	
Taps, stand-pipes, etc.				9	
Well	•••	••••		5	
Tube Well				2	
Pazundaung River and	Creek			50	
At Blawga				282	
		Total		360	

Samples of water from Pazundaung Creek and River were examined at the instance of the Executive Engineer, Water and Sewerage, and along with other routine examination, special tests were also carried out to determine the relative amount of sediment.

At Hlwga, water samples were regularly examined as usual by the Assistant Analyst in connection with Chlorination of water. During the year the dose of Chlorine varied from 0.6-1.4 parts per million and the residual amount of available Chlorine was raised to 0.5-0.3 parts per million from April.

Aerated Waters. 2.

19 samples, mostly Lemonade, were analysed, out of which 7 samples contained more than a trace of iron but within permissible limits. One sample was found to contain some wings, legs, etc., of flies.

Milk. 3.

7 samples were analysed with the following results:-

Conforming to standard	the burn image	-		4
Deficient in all respects	****	10 3000 290	1010	3

Tota1

4

1

3

Milk Powder. 4.

One sample was analysed and was found to be intermediate between "dried quarter skimmed milk" and "dried skimmed milk."

5. Condensed Milk.

29 samples were analysed out of which 12 samples did not conform to the standard. 5 samples (all full cream) ware deficient in fat only and the remaining siven (all skimmed) deficient in Milk solids

Nature.	Satisfactory.	Unsatisfactory.	Total.	
Full Cream, Sweetened	7	4	11	
" " unsweetened	6	1		
Skimmed, Sweetened	3	7	10	
Sterilised Natural Milk	1 200 10	10. Anowrook]	1	
Total	and Too boo did. do	17. Vermieelle	29	

6. Butter.

21 samples were analysed with the following results :-13 Conforming to standard Deficient with respect to whole butter only butter fat only in both respects .. Total 21

Fourteen samples showed presence of Boric Acid in varying amounts.

7. Ghee.

Two samples were analysed both of which showed adulteration.

8. Tea.

20 samples were examined in all, out of these regular examination wasmade in the case of 14 samples, of which two did not conform to the Bengal Standard; six samples were analysed for tanin only.

9. Coffee.

Only one sample was examined and found to be a mixture of coffee powder and 38 per cent of starch.

10. Syrap.

Six samples were analysed out of which only one was wholesome; the remaining five samples contained varying amounts of poisonous metals.

11. Oil.

Two samples were analysed out of which one (cocoanut oil) contained 44 per cent of white oil.

12. Baking Powder.

One sample was analysed and found deteriorated, numerous maggots being present in it.

13. Prawn Powder.

One sample was examined for evidence of putrefaction but was found to be good.

The following samples of different foodstuffs were examined and found tobe wholesome :--

14.	Bread		 3
5.	Vinegar		 1
6.	Arrowroot powd	ler	 2
7.	Vermicelli		 2
8.	Ground Sweet A	lmond	 2

Other miscellaneous samples included the following :-

27. Colouring matter

1111

19. Coal			5
20. Tar			2
21. Asphalt	brut		3
22. Cement			1
23. Lagging			1
24. Chlorine Solu	ition		1
25. Stool for occ			2
26. Paint			1
(contain	ed 9.69% of	CaCO 3)	

(one of them contained a high proportion of Iron Oxide.)

2

28. Damaged Enamel plate and packing for evidence of Sea water

29. Urine.

804 specimens were examined as follows :---

Contagious Disea		36
Corporation Di Depots	spensaries &	
Private Medical		
etc	••••	617
	Total	804

B. Bacteriological.

36,473 specimens were examined in all during the year under report

Water.

274 samples were examined as shown below :---

Hlawga Lake-Chlorinated		52 54
Tube Well		20
Taps, stand-pipes, etc	294	112
Well	0000	5
Pazundaung Creek & River		26
Miscellaneous		5
	Total	274

Chlorinated water was, as in previous years, always maintained at a high standard of bacteriological purity showing absence of Lactose fermenting organisms in 100 c.c. and very few colonies on Agar.

Weekly samples of unchlorinated water from Hlawga were also examined along with the water from the Laboratory tap for the purpose of comparing the effects of chlorination and it was found that the Laboratory tap water which is connected direct to the main also maintained a high standard of bacteriological purity. Regular complete examination was made of the weekly samples of Unchlorinated water from Hlawga Lake and of these only four samples showed presence of faecal organisms of Class I.

Complete examinations were made in the case of all the samples of water from Pazundaung Creek and River together with the Chemical examination as stated before. They were all of low standard of bacteriological purity and several of them showed presence of faecal organisms of Class I. Of the 20 tube well water samples, 5 contained Lactose fermenters in 5 c.c. and two in 10 c.c.; the rest were of a high standard of bacteriological purity.

The five Miscellaneous samples were examined for organisms of the Typhoid group with negative results.

Aerated Water.

16 samples chiefly Soda water were examined in all :----

High	standard	cf	bacteriological purity	in Pepp	. 10
Fair		57	te l'andread		1
Low		,,	**		5
				Total	16

Disinfectants.

Three samples of disinfectants were tested for the determination of Carbolic Coefficient.

The following specimen were examined for the presence of organisms of Typhoid group with negative results :---

Condensed	Milk				3
Milk		***	••••		1
Sherbet					2
Ice-Cream					1
			Tota	b	7

Rats.

33,957 rats were examined for Plague Bacilli of which 50 were found infected as shown in the following Table :--

S	ource.		+	-	Total.
Central East I	Depot)	quit	 29	8;453	8,482
,, West	"		 7	5,511	5,518
Pazundaung			 3	5,584	5,587
Kemmendine	"		 9	9,882	9,841
Dalla	"		 2	2,739	2,741
Kanaungto	**		 	1,788	1,788
orentologica	1.3 10	Total	50	33,907	33,957

202

Specimens from Contagious Diseases Hospital.

Blood.	Stools.	Sputum.	Throat or Nasal swab.	Gland or Blister smear.	Pus, Urethral and other discharges.	Cerebro- spinal Fluid.	Vomit.
M. P. 24 P. B. 14 L. P. bodias 1 Filaria 1 Diff. count 5	C.B. 108 Amoeba or Cysts 105 Ova-Ankylo 72 Ova R. worm 69 Other Ova 10 B. Shiga 19 B. Flexner 7 T.B. 4	T. B. 13 Pneumococci 9 Streptococci 2 Staphy- lococci 5 B.Influenza 4	theria 23 P. B. 2		G. C. 3 Staphylo- cocci 1 T B. 1 P. B. 4 Sp. Pallida 1	Meningo- cocci 3	P. B. 1 C. B. 1 Pneumo- cocci 1 Staphy- lococci 1 Strepto- cocci 1
	Р.в. 3		•	ination .	AR AR NE		Dana an
45	397	33	25	17	10	3 Grand Tot	al 535

535 specimens were examined.

Specimens from Corporation Dispensaries and Depots.

381 specimens were examined as follows :--

Blood.	Stools.	Sputum.	Throat and Nasal swab.	Gland or Blister smear.	Pus, Urethral or other discharges.	Urine.
M.P. 27	C.B. 1	ТВ. 19	B.Diphtherial14	P.B. 1	G.C. 4	G.C. 2
P.B. 25	Amoeta or Cysts. 38	Pneumococci11	and its sol 1	orilines one	Staphy- lococci 1	B. Coli 1
T.A.B. 28	Ova, Ankylo 28	Streptococci 4		e materiale	Sp. Pallida 2	
K.A. 2	Ova, R. worm30	Staphylecocci8		Distilled w		
L.D. Bedies 2	Other Ova8	Micro: Catarrh3		FL Paste		
Filaria 2	B. Shiga 2	B. Influenza 1		Chlorine 1		
Sp. Rat bite 1	B. Flexner1				Mill Intern	
Diff. count 11	T.B. 2					
Haemoglobin 2	LLI, M.S	M. GANGC	4. Care 10	all and a second	16192 46	
100	110	46	114	1	7	3
					Grand	Total 381

Specimens from Private Medical Practitioners, etc.

1,3c0 specimens were examined as shown in the following Table :-

Blood.	Stools.	Sputum.	Throat and Nasal swab.	Pus, Urethral and other discharges.	Urine.	Ulcer scrapings.
M.P. 107 T.A.B. 18 K.A. 15 L.D. Bodies8 B. Lepra 1 Diff: Count 85 Total Count 10 Haemoglo- bin 23	B. Shiga 15 B. Flexner 1		B. Diph- theria 6 Pneumococci 1	G.C. 28 Staphylo- cocci 9 Streptococci 1 L. D. Bodies 1	B. Coli 14 T.A.B. 1	Acarns scabiaci 1 B. Lepra 1
Colour Index 1	Depois	has estressed	paration Dis	eus from Cer	Stadio	1
268	382	546	7	39	56 Grand	12 Total 1,300

C. Miscellaneous.

Miscellaneous works comprised of the following: -

1. 25 packets were sterilised for different Depots.

2 The following materials were prepared and supplied to the Contagious Diseases Hospital, Dispensaries and Depots, etc :--

1. Distilled water	 270 lbs.
2. Fly Paste	 96 lbs.
3. Chlorine Solution	 49½ lbs.

Corporation Laboratory,

D. M. GANGOLLI, M.Sc., B.A., Analyst, Corporation of Rangoon.

The 1st April 1931.

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	during the year 1930	140 140

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Meteorological Data for the City of Rangoon during the year 1930.

LATITUDE 16°46 North.

LONGITUDE 96°18 East.

Height of Cistern of Barometer above Sea-level-35.70 feet (Reduced level.)

		READIN	G OF THERM	OMETER.	Degree of	The second	RAINFALL.
	Months.		Dry.		humidity complete	Prevailing direction	Total fall of rain
		Maximum.	Minimum.	Mean daily value.	saturation being 100.	of wind.	during the month.
-	1	 		06		action of the second	-21
January		 90.8	64.8	77.8	81	N. 9 W.	0.0
February		 92.4	67.2	79.8	81	N. 6 E,	0.02
March		 94.5	71.0	82.7	84	N. 24 W.	1.97
April	•••	 97.7	74.9	86.3	82	S, 65 W.	0.01
May		 91-5	76.1	83.8	85	S. 40 W.	20.41
June		 87.0	76.0	81.5	89	S. 7 W.	13.55
July		 85-3	75.6	80.5	93	S. 28 W.	30.01
August		 85.5	75.5	80.5	91	S. 24 W.	23.25
September		 85.9	76-5	81.2	91	8. 13 W.	15.56
October		 91-2	76-9	. 84.1	85	N. 8 E,	3.63
November		 90.6	74.8	82.7	84	N. 42 E.	2.23
December		 91.8	69.3	80.5	78	N. 14 E.	0-20

1	1.0 *	57	2	10,1	ŝ		EL .	4		2	9	2		00	
Registration Circles.	POPUL	POPULATION ACCORDING TO CENSUS, 1921.	RDING 21.	N RB	NUMBER OF BIRTHS REGISTERED	OF SD.	RATIO PER POF	TO OF BIRTE ER 1,000 OF POPULATION.	OF BIRTHS 1,000 OF PULATION.	of males every 100 orn.		tevo sdiseb to 000,1 1	MEAN BIRTHS DURING FIVE	RATIO OF S FER 1,000 P FREVIOUS YEARS.	E 1 1 B
	Male.	Female.	Total.	Male.	Female.	Total.	.9laM	Female.	Total.	Number born to females be	Excess of deaths per notision	Excess of births pe population	Male.	Female.	
Newly Added Area	2,027	1,516	3,543	98	96	194	48-35	63.32	54.76	102.08	90-2	:	01:	:	
North Kemmendine South Kemmendine	15,687 20,910	10,519	26,206 31.913	425	421 599	846		40-02	32-28	100.95	13.34	69.	:	:	
	12,291	6,960	19,251	227	213	440		30.60	22.85	106-57	ç ().	::	: :	::	_
North-West Town	16,368	5,173	21,949	185	164	469 349		31-70	22.28	102-90	-51	::	: :	: :	
South-West Town	8,883	2,871	11,754	102	124	226	11.48	43-19	19-23	82-26	9.19	:	:	:	
South-East Town	12,441	3,429	15,870	165	148	313		43.16	19-72	111.49	9-32	: ::	::	::	_
Botataung	15,648	8.351	23,300	267	266	533		46-91	27-58	120-38		1.76	TY CLOD	:	
Theinbyu	23,288	13,912	37,200	550	532	1,082		38-24	29-09	103.38	1.83	3 ::	: :	: :	
Cantonment	4,540	3.926	6,471	23	197	42 389		9-84	6.49	121.05	9.36	7.26	:	:	
Kanaungto	11,158	4,599	15,757	168	162	330		35.22	20.95	103.70	2 :	1:08	::	: :	
Tamwe	20,541	10,393	30,934	391	412	803		39.64	25.96	94-90	:	5.14	:	:	_
Hospitals and other Public Institutions	-			:		:	:	:	:	:	:				_
Adventitious popula-	A KAR	1 334				:	:	:	:		:	ind'		-	
:	nonin	Ennit	nne';	:	:	:	:	:	:	:	:	:	:	:	
H man	n ali	618	100	1	-	2 400	100		interio	Les M		-las	-		
togan ban	aliqu auto	620		NIN N	1764		11/-1	114.2		the last		heigh			
and	al.	Nad Tai	(ant) Lett	No.	dot	In all	Unb9	General P	tions	Lara X		033			
Tratal	9.38 716	1 00 900	AVA AT G	0000	0-00									00.00	04.40

Table No. 1.—Births registered by Registration Circles during 1930.

94

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Table No. 2.-Statement of Deaths by Registration

1	2	3		4	Search .	17	5	2 ia	6
	are miles.	age population square mile.	Popu	lation (1921.)	Census		ber of lagister		of deaths to every as of
Registration Circles.	Area in square miles.	Average population per square mile,	Male.	Female.	Total.	Male.	Female.	Total.	Number of de of males to ev 100 deaths of females.
Newly Added Area	1-08	3,280.56	2,027	1,516	3,543	105	64	169	164.06
North Kemmendine	3.37	7,776.26	15,687	10,519	26,206	4 58	406	864	112.81
South Kemmendine	2.43	13,132.92	20,910	11,003	31,913	390	351	741	111-11
Lanmadaw	0.17	113,241.18	12,291	6,960	19,251	232	207	439	112.08
Taroktan	0.13	168,838.46	i3,999	7,950	21,949	315	165	480	190-91
North-West Town	0.13	165,700.00	16,368	5,173	21,541	210	128	338	164.06
South-West Town	0*11	106,854.55	8,883	2,871	11,754	73	45	118	162-22
North-East Town	0.17	135,529-41	16,190	6,850	23,040	174	133	307	130-83
South-East Town	0.21	75,571.43	12,441	3,429	15,870	112	53	165	211-3
Botataung	1	94 154.40	13,648	5,671	19,319	381	186	567	204.8
Tegyaw	\$1.25	34,174.40	15,048	8,351	23,399	279	233	512	119.7
Theinbyu	1.39	26,762.59	23,288	13,912	37,200	548	466	1,014	117.60
Cantonment	1.35	4,793.33	4,540	1,931	6,471	59	30	89	196-67
Dala	7.0		11,731	3,926	15,657	167	128	295	130.4
Kanaungto	\$6.28	4,774.16	11,158	4,599	15,757	205	142	347	144.3
Tamwe	5.28	5,858.71	20,541	10,393	30,934	519	443	962	117-10
Port			13,400	401	13,801				2
Hospitals and other Public		187283	S IN	22		1 681	482	• 2,134	-0.0.5
Institutions				1,334	7,900	1,651	14	- 4,104	342.5
Adventitious population Rangoon River, Pegu River and Pazundaung creek	6.75		6,566						••••
	1000	nan Town	minukana	Borth Luft		tion Cho		-	
Total	30-40	11,365.30	2,38,716	1,06,789	3,45,505	5,878	8,662	9,541	160-5

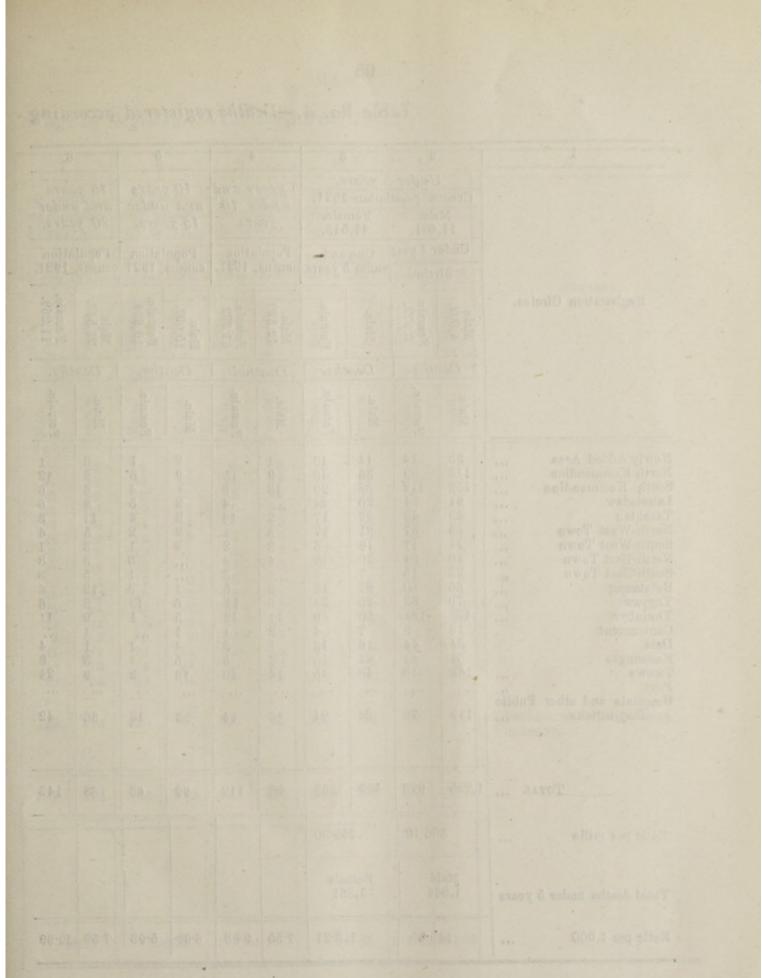
• One death, sex unknown.

Circles during the year 1930.

		1						7							-	8	
	14	1	-	Ľ	EATH	2	1,000	of P	OPUL	ATION	FROM.	-		2. 2	PER 1,	RATIO OF 000 DUR	ING PRE
	0X.		1.	0 .:	[Vers.	ery ea.	6 of 8.	tory ses.		10r 88.		All cau	ses .	VIOU	S FIVE Y	EARS.
Cholera.	Small-pox.	Measles.	Plague.	Enteric Fever.	Malaria.	Other Fevers.	Dysentery and Diarrhoea.	Tubercle of Lungs.	Respiratory Diseases.	Injury.	All other causes.	Male.	Female.	Total.	Male.	Female.	Total
			201.		-85		1.41	•85	9.08	•56	35.00	51.80	42.22	47.70	2		
			•15	.08	·19	-27	2.14	2.14	4.88	•08	23.05	29-20	38.60	32.97		1	
•03			.12	•06	·19	•34	1.57	2.41	4.70	•06	13.72	18.65	31-90	23.22	00		
			.05	.10	·15	•11	1.14	1.51	5.71		14.08	18.87	29.74	22.80		1	
				•04	·23	•14	.59	1.27	6.97		12.62	22.50		21.87	12	3	
					·23	•14	1.11	•65	5.52	•05	7.98	12.83	24.74	15.69			
	.08		801			•17	•34	.77	2.38	1.02	5.19	8-22	15.67	10.05	2	~	
				·09	•17	•13	·87	1.78	3.51		6.77	10.75	19.42	13.32		-	
•13	·		8	•19	·13	•19	•76	·94	2.52	·13	5.42	9.00	15.46	10.39	12		
-05			•15	•46	·31	1.09	4.24	3.42	5.95	•31	13.30	27.91	32.80	29.35			
•04			•30		•43	1.02	2.09	1.07	4.19	·08	12.65	18.54	27.90	21.88			
·05	•05			.08	·19	•40	3.09	1.40	6.42	.05	15.24	23.53	33.50	27.26		12	
							.62	·31	2.63		10.20	12.99	15.54	13.75			
•06					1.47	.57	1.47	140	4.73	•32	8.82	14.23	32.60	18.85		1	
	•38		2		.76	.25	2.29	·44	5.90	·13	11.87	18-37	30.88	22.02			
·03			•10	•03	·55	·48	2.49	1.32	7-47	·10	18.52	25.26	42.62	31.10	•	1 2	
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Table No. 3

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Registration Circles.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	.von	Dec.	Total.
						-							
Newly Added Area	14	13	16	11	14	22	16	13	00	14	13	15	169
North Kemmendine	76	63	78	74	65	75	68	73	76	69	62	64	864
South Kemmendine	20	62	62	55	44	63	74	29	56	53	48	78	741
Lanmadaw	53	28	25	35	27	33	35	43	32	35	46	47	439
Taroktan	46	27	37	34	38	44	44	36	48	36	47	43	480
North-West Town	23	28	35	20	25	30	36	28	29	29	26	29	338
South-West Town	80	es	11	15	24	2	16	10	2	12	4	5	118
North-East Town	36	21	29	21	18	29	27	34	15	23	30	24	307
South-East Town	17	12	15	15	12	14	6	11	6	19	14	18	165
Botataung	61	36	50	40	49	56	43	49	44	47	43	49	567
Yegyaw	56	55	41	45	31	53	43	41	37	37	41	32	512
Theinbyu	06	67	86	68	87	114	96	94	80	73	78	81	1,014
Cantonment	∞	9	9	7	6	80	80	4	11	2	7	80	89
Dala	29	26	37	36	14	28	24	19	25	23	20	14	295
Kanaungto	34	61	30	29	30	31	32	33	29	25	23	32	347
Tamwe	86	82	83	88	60	62	85	82	80	78	76	83	962
Port	:	;	:		;	:	:	1	:	:	:	:	i
Hospitals and other Public Institutions.	187	166	178	165	280	186	159	171	147	169	162	164	2,134
T otal	894	714	836	758	827	870	836	800	731	749	740	786	9,541



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Table	No.	4.—Deaths	registered	according
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1	1	2		3		4		5		6
	Censu	Under is populale.	lation	the course of the local division of the loca	unde	rs and rr 10 a r s.	10 y and 1 15 ye		15 ye and 1 20 y	inder
	11,	601.	11,	513.	yet	urs			20 3	eurs.
		r 1 year rths.	1 0	and_ 5 years.		ation, , 1921.	Popu census	lation , 1921.	Popul census,	ation 1921.
Registration Circles.	Male 4,002.	Female. 3,972.	Male.	Female.	Male. 12,320	Female. 11,332	Male. 15,097.	Female. 10,624.	Male. 21,513.	Female. 11,269.
	* Dec	ths.	Dea	ths.	Dea	ths.	Dea	ths.	Dea	ths.
	Male.	Female.)	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Femule.
Newly Added Area North Kemmendine South Kemmendine Lanmadaw Taroktan North-West Town South-West Town South-West Town South-East Town Botataung Yegyaw Theinbyu Cantonment Dala Kanaungto Tamwe Port Hospitals and other Public Institutions	35 113 139 61 43 55 14 40 23 65 79 180 16 34 61 148 119	$ \begin{array}{r} 14 \\ 99 \\ 112 \\ 54 \\ 40 \\ 37 \\ 17 \\ 34 \\ 15 \\ 60 \\ 62 \\ 164 \\ 8 \\ 44 \\ 41 \\ 113 \\ \cdots \\ 79 \\ \end{array} $	$ \begin{array}{c} 14\\ 36\\ 38\\ 20\\ 27\\ 21\\ 10\\ 20\\ 7\\ 22\\ 25\\ 50\\ 7\\ 16\\ 24\\ 48\\ \cdots\\ 24\\ \end{array} $	10 48 29 24 17 17 6 18 24 49 4 13 15 45 24	$ \begin{array}{c} 1 \\ 9 \\ 13 \\ \\ 3 \\ 5 \\ 2 \\ 4 \\ \\ 3 \\ 8 \\ 11 \\ 2 \\ 1 \\ 7 \\ 14 \\ \\ 10 \end{array} $	$ \begin{array}{c} & 15 \\ & 8 \\ & 4 \\ & 14 \\ & 1 \\ & 2 \\ & 4 \\ & 3 \\ & 5 \\ & 11 \\ & 12 \\ & 1 \\ & 3 \\ & 5 \\ & 10 \\ & \cdots \\ & 14 \\ \end{array} $	2 9 4 2 2 2 3 16 5 1 4 5 13 33	$ \begin{array}{c} 1 \\ 6 \\ 4 \\ 5 \\ 4 \\ 2 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 4 \\ \dots \\ 1 \\ 2 \\ \dots \\ 1 \\ 2 \\ \dots \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ \dots \\ 1 \\ 1 \\ 2 \\ \dots \\ 1 \\ 1 \\ 2 \\ \dots \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	3 8 6 8 11 5 3 3 5 12 8 9 1 1 5 9 66	1 12 6 3 4 1 8 3 4 6 11 4 8 24 42
TOTAL	1,225	993	409	368	93	112	92	63	163	143
Ratio per mille	3	06.10	2	250.00				-		
Total deaths under 5 years	Ma 1,6			nale 361					in set	
Ratio per 1,000	14	10.85	1	18.21	7.55	9.88	6.09	5.93	7.58	12.69

• In the case of children under 1 year of age the ratio should be calculated on the number The population figures on which ratio are to be-

7	1		8	9		11	10	11	1	, 12
	ears under ars,	and	vears under years.	40 y and 1 50 y	inder	and	years under years.		ers and ards.	
Popula census,		Popul	lation , 1921.	Popul census,	ation 1921.	Popu census	lation , 1921	Popul census	ation , 1921.	Remarks.
Male. [Female.	Male.	Female. 41,082.	Male. 41,578.	Female.	Male.	Female 16,259.	Male 6.475.	Female. 4,710	DEMARKS.
Deat	hs.	Dea	ths.	Dea	ths.	Dea	ths.	Dea	ths.	Christian (1991-05) 1
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female	Male.	Female.	
12 44 30 32 37 26 7 21 15 65 25 39 2 21 13 39 345	3 46 38 22 16 16 5 19 4 30 26 32 2 12 10 33 112	9 54 40 28 54 18 13 23 17 78 32 51 5 24 24 52 420	8 42 40 17 14 5 3 15 6 19 22 35 3 12 18 54 97	5 44 36 26 47 25 3 21 15 38 39 49 5 21 15 37 303	8 29 35 14 15 10 2 3 4 21 15 42 3 16 14 34 51	9 49 28 23 45 17 7 19 6 40 23 40 23 40 8 26 15 49 163	4 30 21 21 15 9 3 7 2 8 12 19 10 13 36 28	15 92 56 32 46 36 11 23 24 57 34 114 12 19 36 110 78	15 79 58 40 27 27 5 22 8 18 42 98 9 13 17 90 17	97 deaths excluded, age being unknown.
773	426	942	410	729	316	567	240	795	585	Tindex on the second se
1	3-19	2	20-35	3	1.17	3	4 · 20	122.78	124-20	Charlenne 12 1

to age by Registration Circles during 1930.

of births during the year, in all other cases on the number living at the time of census. calculated refer to the whole city under registration.

		1,000 OF POPULATION	lajoT	47-70 32-97 32-97 22-80 22-80 21-87	27-61
1930		DA POPU	Other classes.	1.62 4.29 4.29 2.26 55 1.1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.	5*34
year	*	1,000	Buddbists.	50.22 34.02 34.02 34.05 34.05 30.53 60.62 18.01 10.25 60.62 18.01 10.25 51.44 25.44 25.44 25.44 25.44 37.49 37.49 	36.45
the		ER FER	.sacbsmmsdold	60-34 55-59 177-01 19-77 9-37 9-37 9-37 116-73 11-72 112-96 112-96 31-94 31-94 31-94 31-92 37-29 37-29 	22.85
during		RATIO OF DEATESFER	Hindus.	36.86 31.46 31.46 16.77 13.30 12.36 15.17 15.14 11.77 30.14 15.14 11.77 30.14 15.65 21.65 21.65 21.65 21.65 	26-28
s dur		RATIO	Christiana.	28.57 31.91 14-24 111-14 3:40 8:85 6:85 6:85 6:45 334-05 34-05 34-	21.31
Circles		SRED.	.lstoT	169 864 741 439 480 338 118 307 165 567 567 567 567 567 567 567 567 567 5	9,541
		REGISTERED.	Other classes.		97
Registration	3		Buddhists.	138 521 524 525 334 255 115 126 125 125 125 125 125 125 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1255 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555 1555	4.167
Regis		NUMBER OF DEATHS	Mohammedans.	27 27 27 27 25 19 55 19 55 19 55 19 55 19 55 10 8 10 8 10 8 10 8 10 8 10 10 10 10 10 10 10 10 10 10	1,418
by		UMBER	.subaiH	23 206 74 43 176 441 141 89 89 233 349 233 349 233 349 233 349 233 233 349 273 233 349 273 233 349 273 273 273 273 273 273 167 176 176 176 176 176 176 176 176 176	3,302
Class		Z	Christians.	4471 6622 6622 6622 6622 6622 6622 6622 66	540
10		1921.	Total.	23,543 26,206 31,913 19,251 21,949 21,541 11,754 23,040 15,870 15,870 15,870 15,870 15,870 15,757 15,757 30,9347 15,757 15,757 15,757 15,757 15,757 15,757 15,750 6,471 15,657 15,750 6,471 15,757 15,750 6,471 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,750 15,700 15,	3,45,505
ording		SUS OF	Other Classes.	20 333 618 9,813 1,165 1,177 1,165 1,177 1,175 1,177 1,177 1,177 1,177 1,177 1,175 1,177 1	61
ed accordi		+ то Семвив	Buddbiste.	2,748 15,321 12,451 10,946 6,976 6,976 1,388 1,388 1,586 5,806 5,818 1,084 1,084 1,084 1,374 1,374 1,374 1,374 1,374 1,374 1,4961	,14,298
registered	2	According	Mohammedana.	116 2,529 3,998 3,998 1,366 1,387 1,387 1,387 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,403 6,105 6,	62,070 1
S			.enbniH	624 6,550 5,566 3,479 7,672 9,311 7,567 9,059 9,175 9,175 9,059 9,175 7,116 7,116 7,116 7,304 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,207 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,117 7,116 7,116 7,117 7,116 7,117 7,116 7,117 7,	1,25,626 62,070 1,14,298 18,1
-Deaths		POPULATION	Christians.	2559 2944 3559 2944 678 3599 2944 678 3,797 2,429 1,111 1,90	25,350
0.0			les	there in the search in the sea	:
Table No.	1	ADA	Registration Circles	Newly Added Area North Kemmendine South Kemmendine Lanmadaw Taroktan North-West Town South-West Town South-East Town South-East Town South-East Town South-East Town Botalaung Yegyaw Theinbyu Cantonment Port Dala Kanaungto Tamwe Port Port Port Public Institutions Adventitious Popu- lation	Total

ŝ

· Race in 16 males and 1 female deaths shown unknown in Rangoon General Hospital.

Circles.	Estimated normal population of 1930.	Deaths under 12 months of age.	Total recorded births.	Estimated birth-rate calculated on estimated normal population.	Infantile mortality per 1,000 births.	Remarks
Newly Added Area	4,851	49	194	39.99	252.58	
North Kemmendine	25,344	212	846	33.88	250-59	aligned.
South Kemmendine	25,347	251	1,167	46.04	215.08	- Alexander
Lanmadaw	14,856	115	440	29.62	261-35	
Taroktan	19,905	83	489	24.57	169.73	Sonald
North-West Town	12,020	92	349	29.03	253.61	April
South-West Town	6,586	31	226	34.32	137.17	
North.East Town	16,836	74	363	21.56	203.86	(all)
South-East Town	9,175	38	313	34.11	121-41	1000 A
Botataung	13,723	125	533	38.84	234.52	
Yegyaw	20,210	141	465	23.01	303-23	C.C. INC.
Theinbyu	30,916	344	1,082	35.00	317.93	Angen
Cantonment	3,578	24	42	11.74	571.43	100
Dala	8,784	78	332	37.80	234.94	p.1998.
Kanaungto	10,291	102	· 330	32.07	309.09	
Tamwe	23,022	261	803	34.88	325.03	
Port	1,007					
Hospitals and other Public Institutions		198				040
Adventitious population.	5,069					
Total	2,51,520	2,218	7,974	31.70	278.15	

-Table No. 6.—Statement showing the birth-rate and Infantile Mortality in each Circle for the year 1930.

-	Months.	с	holera		S	mall-p	0 x .	М	easles	ı.	Р	lague.	*	F	evers,	
-		1928	1929	1930	1928	1929	1930	1928	1929	1930	1928	1929	1930	1928	1929	1930
	January	6	10	5	44	1	3	1	·		28	4	2	40	32	34
_	February	15	9	2	93	4	3	3			42	5	6	47	34	35
	March	17	12	1	125	4	4	1			32	6	5	52	22	36
	April	17	11		79	1					17	18	4	40	48	33
	May	5	6	6	25	2	1	1		029.8	19	2	3	35	33	26
	June	10	7	4	7		4		•11		29	11	1	44	34	36
	July	3	2	•••	4	1	***				44	20	4	.37	43	23
	August	6		2	1	·					24	13	3	35	36	20
	Beptember	1					198			1	12	7	9	25	40	18
	October	1	1	1					1		6	4	1	32	41	27
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	Total	86	61	22	378	13	15	6	1	2	257	94	38	440	437	352

Table No. 7 .- Statement showing the number of Deaths from

various causes for 1928, 1929 and 1930.

	Bowel oplaints	8.	Ren	spirator. Diseases	у	I	njurie	».		Other causes.	ort.		Total.	
928	1929	1930	1928	1929	1930	1928	1929	1930	1928	1929	1930	1928	1929	1930
82	61	81	276	261	220	24	27	15	449	540	534	950	936	894
68	67	47	268	283	208	28	32	81	468	468	882	1,032	902	714
86	66	61	286	278	234	17	13	20	496	471	475	1,112	872	83
98	58	50	271	277	243	22	20	23	416	471	405	960	904	758
81	65	47	279	264	192	19	24	174	416	411	378	880	807	82
119	97	101	805	262	233	19	15	68	525	461	423	1,058	887	87
79	136	111	324	265	245	22	21	27	519	609	426	1,032	1,097	88
72	90	69	828	225	230	25	23	19	520	535	457	1,011	922	80
42	77	44	243	226	223	21	17	16	545	556	420	889	923	78
43	66	33	263	276	199	24	22	22	577	557	466	946	968	7
50	68	32	261	274	215	23	20	26	516	473	431	883	872	7
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- 1		Registration Circles.	New Iy Added Area North Kemmendine South Kemmendine Lanmadaw Taroktan North-West Town South-West Town South-East Town North-East Town Botataung Yegyaw Yegyaw Yegyaw Potataungto Tamwe Port Hospitals and other Public Institutions	Total

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220 Table No. 8 .- Deaths vegistered fr

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Table No.	1		Registration Circles.	Newly Added Area North Kemmendine South Kemmendine Lanmadaw Taroktan North West Town South-West Town South-East Town South-East Town Botataung Yegyaw Theinbyu Cantonment Dala Kanaungto Port Port Popt	Total

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Table No. 17.-Deaths registered from other Fevers including Influenza by Registration Circles during each month

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1		Registration Circles.	Newly Added Area North Kemmendine South Kemmendine Lanmadaw Taroktan North-West Town South-West Town South-East Town South-Mest Town South-West Town South-West Town South-West Town South-East Town Po	Total

Table No. 19.-Deaths registered from Tubercle of Lungs by Registration Circles during each month of the year 1930.

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° Sex shown unknown of 1 death from earthquake in General Hospital.

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		RATIO PER POP	Male.	34.04 19.89 10.90 10.17 5.99 4.10 9.03 6.31 8.33 14.07 11.50 9.03 6.31 14.07 11.50	10	12.36
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			May.	842 842 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 10 1	2	378
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Lator	1		Registration Circles.	Newly Added Area 10 North Kemmendine 45 South Kemmendine 35 Lanmadaw 35 Taroktan 11 North-West Town 19 North-East Town 19 South-East Town 19 South-East Town 20 Fotataung 31 Theinbyu 55 Cantonment 20 Pala 12 Nala 20 Port 50 Port 10 Public Institutions 105		Total

Table No. 22.-Deaths registered from All Other Causes by Registration Circles during each month of the year 1930.

Table No. 23.-Deaths from Diarrhoea and Dysentery registered according to Class by Registration Circles during the year 1930.

1		131 381 N	2	118 1482	124 384	130		12	51	6803	3	510	10.30	1	AP. LOU	1 16	4	
		Population according to Census of 192	ccording t	o Census of	1921.				IN	Number of deaths registered	f death	a regi	stered.			Ratio 1,000	Ratio of deaths per 1,000 of population	is per lation
Registration Circles.			.904		*89		Christians	ians	Hindas		Moham Buddhists	Budd		Other Classes.				
L'PIS (uegita pontrale apri sott satem des	Christians.	.subaiH	Mohammeda	Buddhists	Other Class	Total.	Віаттроеа.	Бу версегу	Durona	Dysentery Diarrhoea.	Dysentery	Diarthoea	Dysentery	Distrhoes.	Total.	Male.	Female.	.latoT
Newly Added Area North Kemmendine South Kemmendine Lanmadaw Taroktan North-West Town South-West Town North-East Town South-East Town North-East Town South-East Town North-East Town South-East Town North-East Town South-East Town North-East Town South-East Town South-East Town North-East Town South-East Town South-East Town North-East Town South-East Town North-East Town South-East Town North-East Town South-East Town North-East Town South-East Town South-East Town North-East Town South-East Town North-East Town South-East Town South-East Town South-East Town North-East Town South-East Town South-East Town North-East Town South-East South-East	1,473 1,473 2,429 2,429 1,111 1,116 1,1116 1,116 1,116 1,116 1,1116 1,1116 1,1106 1,1006 1,1006 1,1006 1,1006 1,1006 1,106	624 6,550 5,566 3,479 7,672 9,311 9,059 9,175 9,175 9,175 9,175 9,175 1,1,567 7,304 11,358 7,116	2,529 3,998 3,998 1,387 10,638 5,4693 5,4693 5,4693 6,105 6,105 6,105 6,105 6,105 6,105 6,105 6,103 8,419 6,105 6,105 6,103 8,419	2,748 15,321 12,451 10,946 6,976 1,388 1,388 1,388 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,216 1,388 1,216 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,388 1,216 1,216 1,388 1,216 1,216 1,216 1,216 1,216 1,216 1,226 1,227 1,226 1,227 1,226 1,227 1,227 1,228 1,227 1,228 1,227 1,228 1,2388 1,2388 1,2388 1,2388 1,2388 1,2388 1,2388 1,2388 1	20 333 618 9,813 1,014 9,813 1,165 1,175 1,165 1,175 1	3,543 26,206 31,913 19,251 21,541 11,754 23,399 23,399 23,399 23,399 23,399 15,757 15,757 15,757 15,757 13,801	······································	:21 ····································	101 101 101 101 101 101 101 101 101 101		19-1-20 1-03400 11-00 1	1184: 1384 1 10 80 80 80 80 80 80 80 80 80 80 80 80 80	1 2 0 2 1 2 1 1 1 2 0 0 1 2 0 2 1 2 0 2 1 1 1 2 0 2 1 0 2 1 0 2 1 0 2 0 2	11111-111111-1111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 6 0 2 5 1 5 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.19 2.19 1.87 1.163 1.163 1.163 1.163 1.163 1.163 1.163 1.177 2.653 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.7555 2.	1.41 2.14 1.57 1.55 1.157 1.14 1.14 1.57 2.59 2.09 2.29 2.09 2.49 2.49 2.49 2.49 2.49 2.49 2.49 2.4
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Table	No. 24Statement of the number of deaths from Phthisis and Respiratory	
	Diseases and the ratio of deaths per 1.000 of the population in	
	males and females, circle by circle.	

and the stored light	930		F	hthisis.			Respi	iratory d	liseases	excludi	ng Phti	nicis.	
and	Nut			of deat ulation.		1,000	Number and Ratio of deaths per 1,000 of population.						
Registration Circles.	Mal	les.	Fer	Females.		Total.		Males.		Females.		Total.	
	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- ber.	Ratio.	Num- oer.	Ratio	
Newly Added Area	3	1.48	1.08		3	·85	24	11.84	8	5.28	32	9.03	
North Kemmendine	36	2.95	20	1.90	56	2.14	65	4.14	63	5.99	128	4.88	
South Kemmendine	31	1.48	46	4.18	77	1.41	90	4.30	60	5.45	150	4.70	
Lanmadaw	22	1.79	7	1.01	29	1.51	71	5.78	89	5.60	110	5.71	
Taroktan	23	1.64	5	•63	28	1.27	106	7.57	47	5.91	153	6.97	
North-West Town	7	•43	7	1.35	14	-65	78	4.76	41	7-92	119	5.52	
South-West Town	6	-67	3	1.04	9	.77	18	2.23	10	3.48	28	2.38	
North-East Town	26	1.61	15	2.19	41	1.78	51	3.15	30	4.38	81	3.51	
South-East Town	11	·88	4	1.17	15	•94	32	2.57	8	2.33	40	2.52	
Botataung	54	3.96	12	2.12	66	3.42	76	5.57	39	6.88	115	5.95	
Yegyaw	13	·86	12	1.44	25	1.07	64	4.25	34	4.07	98	4.19	
Theinbyu	81	1.33	21	1.51	52	1.40	123	5.28	116	8.34	239	6.42	
Cantonment			2	1.03	2	•31	15	3.30	2	1.03	17	2.63	
Dala	12	1.02	10	2.55	22	1.40	42	3.28	32	8.15	74	4.73	
Kanaungto	4	•36	3	•65	7	•44	64	5.73	29	6.30	93	5.90	
Tamwe	23	1.12	18	1.73	41	1.32	138	6.72	93	8.95	231	7.47	

		Immigration.	1221/28:00	Emigration.							
Year.	Adalts.	Children.	Total.	Adults.	Children.	Total.) dollarinigo				
1 - ABD -	Dam Datio.	hanne inghin	Nam- Eatio	Sinti Basta.	Main- Hallon						
1930	3,09,483	14,675	3,24,158	25,857	2,479	28,336					
1223		41 % 18	Indian Ports.	2,98,376	14,053	3,12,429	seth Komme				
120		100 87	ien es	1917 7	100 L 100		Mahagua				
Total	3 ,09,483	14,675	3,24,158	3,24,233	16,532	3,40,765	anatten !				

Table No. 25.—Statement showing the Immigration and Emigration for the Port of Rangoon during the year 1930.

N.B.-With reference to the figures for Emigrants to Indian Ports, they have been compiled from the information supplied by the Agents of the respective companies concerned.

TR

Table No. 24,---Sim

Serial No.	Burial or Burning Ground.	No. of burial passes issued by Medical Registrars, etc.	No. of passe by Vaccina Careta	Remarks	
	The second second second second	and hours and hours	Old.	New.	
1	Ayeywa near Jamal's land,	- brever	Bacght	15	
2	Kemmendine Seikkyi, Kemmendine	16 19	1 4	15 15	12
3	Municipal West, Hanthawaddy Read	3,473	431	3,039	ER
4	Karen, Bagaya Road	29	4	26	08
5	Hteedan, Sanchoung Road	345	25	328	48
6	Armenian, Stockade Road	,housen 6 an	2	4	52
7	Baptist, Montgomery Street	24	2	23	
8	Parsee, U Ohn Ghine Road	2	1 1 1	2	38
9	Jewish, U Ohn Ghine Road	12	2	12	86
10	Mogul, U Ohn Ghine Road	39	2	38	
11	Chinese, Culvert Road	287	8	281	18
12	Chinese, Tamwe Road	122	24	98	
13	Municipal East, Tamwe	3,580	287	3,287	
14	Suratee, Tamwe	1,119	49	1,078	
15	Dawbong, Patheingyi Village	75	4	71	
16	Dawbong, Arracan Co.'s Village	41		41	
17	Dawbong, near Steel's land	4		4	
18	Dawbong, Ayeywa Village	6		6	
19	Dalla, Burial Ground	117	6	111	
20	Hindu, Burial Ground Dalla	97	abergalan.	97	
21	Kamakasit, East	11	3	7	
22	Kamakasit, West	27	8	19	
23	Angyi, Dalla	47	4	43	
24	Minywa Seikkyi Dalla	14	2	12	
25	Seikkyi, Kanaungto	244	13	231	
26	Burmese, North Kanaungto	56	2	54	
27	Mohammedau do	17		17	
	Carried over	63			

Table No. 26.—Burial Statement for the year 1930.

Serial No.	Burial or Burning Ground.	No. of burial passes issued by Medical Regis- trars, etc.	No. of passe by Vaccin Careta	Remarks.	
	Old. See.	- dans	Old.	New.	
	Brought forward	··· buel		aver.	1
28	Cantonment	38	6	35	
29	Kamaynt	69	5	64	
30	Sunni Burial Ground, Kanaungto	10	2	8	
31	Lower Jawaing	7	1	6	
32	Mahamaden private Burial Ground,	han han	al and the set		
33	Hanthawaddy Road Chinese old burial ground, Mill	2		2	
34	Road Chittagonian Old Burial Ground,	2		2	
35	Stockade Road Roman Catholic do do	2 4		24	
36	Wingaba Kyaungdike. Bahan	1		1	
87	U Thiri Kyauogdike, Ngadatkyi	1		1	
38	Pyathit Kyaung do	1		1	
39	Shwegondine Kyaungdike	1		1	
40	Myanaung Kyaungdike, Wingaba	8	1	2	
41	Ngadatkyi Kyaungdike	2	·	2	
42	U Po Yin's Kyaung Bahan,	and the state		inermoted	
43	Gyatawya Road	, 1		1	
44	Theatre Road compound	1	1	and which	
45	AlletawyaKygdike, Boundary Road	2	a nu cada	2	
46	Pawdawan Pagoda Vault in	-	Lanon	A LINES	
47	Waibyan Kyaung Eastern Slope of Shwedagon	1	[L. Charles	
48	Pagoda (Cremated) In Mortuary, Medical College etc.	··· 3 190	168	3	
40					
	Total (a)	10,171	1,068	9,098	

Burial Statement for the year 1930-contd.

corporation marts.		
No. of dead bodies brou Corporation limits.	ght from outs	side 69
Total No. of Still births		630
last year Fotal No. of deaths duri	ng the year	14 9,541

NT.	I No. of p					10,1	16
No.	of dead				out	tside	4
N	Corporatio				- 1 -	e al.	4
NO.	of passes	not colle	ected a	it the e	na	or the	
	year			White			3
	kept in	museun	n for	which	no	pass	
No,							
No,	Collected						

Average cost per vaccination head.	Rs. A. F. 0 2 10 0 2 8	1 104
Total expenditure including cost of lymph and salaries of vacci- nators, etc.	Rs. A. P. 37,154 6 9 41,223 15 9	C ADDAD
No. of births registered per 1,000 of population.	23-11 24-12	103 20
Primary vaccination per 1,000 of population (by Corporation Staff.)	23.66	20 123
Ачегаде No. Vaccinated by еасh vaccinator.	759 1,086	2821010
Rate percentage of verified Primary successful cases in Town.	97-17 98-29	Sucreous
Total No. of vaccinations.	2,06,859 2,47,817	(c) A 360
Ship vaccinations.	1,82,247 2,16,854	TWO OL CO
Vaccinations done by Private Medical Practitioners and others.	332 555	TT LE LE LE
Revaccinations in the Town by Corporation Staff.	16,104 21,002	ALL TAR
Primary vaccinations in the Town by Corporation Staff.	8,176 9,406	12/22/2010
Year.	19 30-31 19 29-30	112 110 121
	Primary vaccinations in the Town by Corporations Staff. Medical Practinations and othera Corporation Staff. Neccinations and othera Medical Practitioners and othera Medical Practitioners and othera Medical Practitioners and othera Ship vaccinations. Average No. of vaccinations. Primary vaccination per 1,000 each vaccination (by Corporation Medical by Mo. of bitths registated per Staff.) No. of bitths registated per Mo. of bitths registated per Staff.) Medical cost population. Average of vaccination of typopulation. Mo. of bitths registated per mators, etc.	20 <

Table No. 1A.-Showing the particulars of cost of Vaccinations performed at the Port Health Station.

Cost of each Vaccination.	Rs. A. P. 0 0 11	6 0 0	0 0 8
Number of Vaccinations performed.	1,87,711	2,16,854	1,82,247
Total Cost.	Rs. 10,978-2-0	Rs. 10,639-12-0	Rs. 7,265-3-0
Cost of 1ymph supplied approximately.	Rs. 9,404-6-0	Rs. 7,894-6-0	Rs. 4,327-13-0
Pay and allowance for 4 temporary Vaccinators.	Rs. 1,573-12-0 (from 24-7-28 to 31-3-29).	Rs, 2,745-6-0	" Вв. 2,937-6-0
the state	Color	1000 En 10	100 100
Year.	1928-29	1929-30	1930-31

CIRCLES.	Total births excluding Still-births.	Still-births.	Deaths under one year.	Number of Infants surviving.	Number of Infants vaccinated.	Percentage of vaccination to births registered.	Remarks,
Newly Added Area .	. 196	7	43	153	0.00	00.50	
North Kemmendine .	. 879	55	202	677 5	866	80-56	
South Kemmendine .	. 1.149	54	217	932	785	68.32	
Lanmadaw .	. 438	19	107	331	608	00.00	
Taroktan .	451	, 9	79	372	608	68.39	
North-West Town .	347	21	83	264	702	107.74	
South-West Town .	. 219	13	32	187 }	723	127.74	Noteholder
North-East Town .	391	15	75	316	683	101.64	South-Real
South-East Town .	281	9	36	245 \$	000	101.04	Burth-Brid
Botataung .	511	11	122	3897	492	51.30	Togowin -
Yegyaw .	448	32	123	325 5	492	51.90	B. Mission and
Theinbyu .	1,039	45	325	714	-761	40.44	
Tamwe .	843	59	265	5785	101	40.44	
Dalla .	356	11	70	286	1,293	174-97	
Kanaungto .	383	16	92	291	1,200	141 01	
Cantonment .	54	2	24	30	22	40.74	
Port .							
Hospitals and other Public Institutions,		254	208				
Vaccination performe by Private Medic Practitioners					140	(A	la seconda a la succett
Private Vaccinators .							
Total	7,985	632	2,103	6,090	6,373	79.81	

Table No. II.—Showing births registered during the year 1930-31, and vaccination of Infants under one year of age.

SANI

Table No. 1.-Showing number of Blockages

-	bgalogo to	1 10.7	BLOCKA	GES	1N	mby					-			
	ciontion linmarity births	i - bah	DECORA			title				INSPE	OTOR			
Division.	Circle.		ulliage Frays.	ole.	Downtake Sul- liage and Rain- water Pipes.	ipes.	Other Blockages.	Water Closets.	Tra	iage iys.	ole.	Downtake Sul- liage and Rain- water Pipes.	pes.	Other Blockages.
	28-83	Water Deep.	Surface.	Manhole.	Down liage a	Soil Pipes.	Other]	Water	Deep.	Surface	Manhole.	Downtake liage and F water Pip	Soil Pipes.	Other 1
	68:39	1 2	3	4	5	6	7	1	2	3	4	5	6	7
[01	88		13		108	0.004	11-11	T JRY T	-its	N.
sion.	North-East Town (I)		99 3,394 69 3,394	- 100	1 200	1	2	2	e	3,394 3,394	12.463	T-TROV	-itio	
Divi	North-East Town(II)	- sector	00 1,826	010			112			1210	15 10	1 Janie	-ili'u	
East Town Division.	South-East Town Yegyaw		97 1,371	0.00						1,371	123			
East	Botataung	6	22 2,370	3						2,370				
l	40-44	-		+15	125		45		REG, L	-			dala	T
				850	245		83		248				o with	T
	174-97	72 7	87 12,355	101	41	2	2	-2	14	12,343		1		-
	Total					_	-					103		~
												S LIBIN	3 20	2
ision.	Theinbyn East	2	and the second							925				
Divi	Theinbyu West	9	6 429		808		100		1	429	pijul	ngal of	1	
urbar	Tamwe (I) Tamwe (II)		-											
East Suburban Divi	Tamwe (III)		-							faoili		Private	10	
Eas	Dalla													
				1-25			-		+		in tor	Vacni	tavb	
	15.6Å	3,373	0	80.8	BUI.		632		39,7		stol			
			_										_	-
	Total	11	6 1,354	8	3				1	1,354				

TARY.

cleared during the year 1930.

(LEAR	ED BY	Z						1						
		C	WNE	R.				C	ORPOR	ATION	PLUMBI	ER.			
losets.	Sull Tr	liage ays.	e.	Downtake Sul- liage and Rain- water Pipes.	pes.	Other Blockages.	Water Closets.	Sulli		le.	Downtake Sul- liage and Rain- water Pipes.	ipes.	Other Blockages.	REMARKS.	
Water Closets.	Deep.	Surface.	Manhole.	Downta liage a water	Soil Pipes.	Other E	Water	Deep.	Surface.	Manhole.	Downth liage (Soil Pipes.	Other I		-
1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	
25 22 8 7 6	92 64 181 397 22	 12 	21 60 3 7 3	8 24 7	1 1 	 	1 1 	7 5 5 		 4 3 	1			Korth-West	A state of the second second second
68	756	12	94	89	2	2	2	17		7	1				
1 9	 5		3 5	2			1								
)		a The second
-												-			
10	5		8	3			1								

SANI

													I dist	LEAL	0
				BLOCK	AGI	ESIN					IN	SPECI	OR.		
- Division.	Circle.	Water Closets.	Sullis Tra	Surface. sa	Manhole.	Downtake Sul- liage and Rain- water Pipes.	Soil Pipes.	Other Blockages	Water Closets.	Sull Tra Deeb.	oge ys.	Manhole.	Downtake Sul- liage aud Rain- water Pipes.	Soil Pipes.	Other Blockages.
		1	2	3	4	5	6	7	1	2	3	4	5	6	7
West Town Division.	North-West Town South-West Town Taroktan Lanmadaw	22 1 9	235 318 79 147	4,199 2,420 4,603 3,183	16 17	27 4 15 7	 3	1		 33 	4,199 2,420 4,603 3,183				
C	Total	32	779	14,405	95	53	3	1		33	14,805				
	North Kemmendine I														
	North KemmendineII														
visio	South Kemmendine I														
In Di	South Kemmendine II	4	10	1,091	16						1,091				
purbs	Kanaungto														
West Suburban Division.	Cantonment			•,•											
l	Total	4	10	1,091	16						1,091				
	GRAND TOTAL	119	1,582	29,205	220	97	5	3	2	48	29,193		1		

Table No. 1.-Showing number of Blockages

TARY.

cleared during the year 1930.

			Own	ER				-	Innon	ATTON	PLUMB	ER		(Intelegal)
_								· ·	ORPOR	-		BR.		
Water Closets.	Sulli Tra			Jowntake Sul- liage and Rain- water Pipes.	pes.	Other Blockages.	Water Closets	Sullis Tray	1- 1- 1	0.	Downtake Sul- liage and Rain- water Pipes.	pes.	Other Blockages.	REMARKS
Water	Deep.	Surface	Manhole	Downtake liage and water Pij	Soil Pipes.	Other	Water	Deep.	Surface	Manhole	Downtu liage a water	Soil Pipes.	Other]	ale Take Transit
1	2	3	4	5	6	7	1	2	3	4	5	6	7	
					1.182		•							waxaa
21	225		33	25			1	10		8	2			
1	234		16	4				1						
	79		17	15		1			••;					
9	145		21	7	3			2						(1) i ??
		-											-	
				21.194	1 101								a dala	
31	733		87	51	3	1	1	13		8	2			the langer fideb
-		_		019 3										and president
				100	01	156		-					-	(1) to mala?
														(II) i settis
						····								(Iti) whene)
														Dutta
3	8		15				1	2		1				
														N. 1. 19
														E. I. (11)
	PAR.	0.5		012	22	1986			5	1			Inter	
3	8		15				1	2		1				
112	1,502		204	93	5	3	5	32		16	3			-

d-

	Table No. 2.	1							1.02	27 4				CES SE	
					Se	ection	2.		.	Sch.	п.	Ch. I.	Sch. Ch.	11.	Sch. I Ch. 7111
Division.	Circle.		2	8	PA.IC	12		5 (1) 5 (<u>4</u>)		Rule 1.	Rula 25.	Rule 27 (e). Rule 12.	Rule 2 (a).	s 2 (b).	le 1 (b).
	REMAINS	98	102	123	124	126	142	156 156	182.	Bul	Ru	Rule	Rul	Rule	Rule
f	North-East Town (I)								134	48	4		5	68	251
	North East Town (II) .						•••		240	11	8 8	524	1	31	394
I	South-East Town .								375	18	12 3	393		77	407
	Yegyaw								13	26	14 6	326		146	344
East Town X	Botataung							5 3	174	2	6 2		2	115	125
Division.	R. B. (I)														
	R. B. (II)														
	F. I. (I)						·		3			3			
	F. I. (II)														
l	Total							5 3	939	105	40 2,	194	8	440	1,521
(Theinbyu East								155	54	1	144		348	237
	Theinbyu West .								117	3	1 5	249		590	
	Tamwe (I)				5				158	10		74	2	416	
	Tamwe (II) .							1	15	2	1	121		862	18
East Sub-	Tamwe (III)								44	18		22 2	. 4	204	
urban Division.	Dalla					·						2			
	R. B														
	F. I. (I)														
	F. I. (II)														
(. Total .				5			1	489	82	1	612 2	6	1,920	25
					-		-	-							1
			-	-	-		-					63			
			1	191	12		8	111	6.	G	1.0	101	1	106.1	-

Table No. 2 .- Showing number of Notices issued and served under the differen

132

UND	ER	Date of	HTO)											-										
140	Sch.	. п.	Cha	. v	IIIA		Sch. Ch.	II. IXA.		Sch	. II.	Ch. 2	xII.	Se Ch	h. I . XI	I. II.	V.	11. 78.		Aerated aws.	Ice-		1(e). (II B, 2.	
Rule 1.		Rule 2.	Rule 3.	Rule 4.	Rule 5.	Rules 7 & 8.	Rule 1.	Rule 7.	Sch. II Chap. X	Bule 4.	Rule 6.	Rules 10, 11 & 12.	Rules 13 & 14.	Rule 1.	Rules 10 to 19.	Rules 20 & 21.	Sch. II. Ch. XV.	Sch. II Ch. XVII. Food bye-laws.	Milk bye-laws.	Ice and Aera water bye-laws.	Sherbet and Ic crean bve-laws.	Section 179.	Ch. VIII. R. 1(e). Sch. II. Ch. XII R.	Total.
1	99		141				35	3					11	4										1,347
2!		44	129				36						7											1,680
23	35	1	128			9	26					4	35			1								1,721
10	6	5	93			8	60						2		£	5								1,451
13	88	2	10	1		9	81						4	6		31								914
										22	29					·		·						51
										25	27													52
																	1	308	34	5	8			362
		•••																141						141
93	33	52	501	1		26	238	3		47	56	4	59	10		37	1	449	34	5	8			7,719
	63		55			4	55						6	2		51		1				1.		1,176
	76		15			2	112				1	5				47							2 1	1,221
- 1	18		9		7	12	75			1	1			1		91						1		884
	89		27		+	17	67		S	49	112	40		16		90								1,026
1	18		2		,	3	8	1	801 							18								339
1	16						26	1		2	3	2												52
										25	20													45
																		518	2		21			541
	•													·	••••									
2	80		108		7	38	343	2	1	77	137	47	6	19		297		519	2		21	2	2 1	5,284
	08	0	r	-	20	17.0	-	1	450		1								Into					
10,00	10.0		80	- A	0	892	13 4	428	202,81		2			0	1				In	AT L	1010			

Sections of the City of Rangoon Municipal Act, 1922, during the year 1930.

133 .

Table No. 2		5201	102 M	g ni	umo	ler	of NO	tices	1581	eu unu	i sera	icu i	inuer	- Lui
											N			
			. 60	Sec	stion.		11.659		Sch	II. Ch.	I.			Ch. VIII.
Circle.			3.	4.	9	S. 11 . 12	6 [1]. 6 [2]. 6 [4].		le 1. ile 2.	lle 25. ale 27 [e].	de 12.	ule 2 [a].	ale 2 [b]	Rule 1 [b].
	98	102	12:	124	12		150	182	Ru	Ru	Ro	Ru	Rt	Ru
North-West Town								524	32 13	457 3		3	69	469
South-West Town								357	45 5	414 3		11	77	291
Taroktan			1					165	32 1	335		13	117	57
Lanmadaw								271	84 3	410			54	40
R. B. (I)														
R. B. (I!)														
F. I. (1)														
F. I. (II)														
Total			1					1,317	193 22	1,616 6		27	317	1,74
	-	-		-	_							-		
		30								1.000	-	100	12 2	
A and and and and and		RE			in l					1.2 1.	1. 1.	101	000	
North Kemmendine (I)							1		1 1 1 1 1		1000			
North Kemmendine (II)				01.						1. 1. 1. 1.	1.7-14			
South Kemmendine (I)									p p q e	1 1 1 1 1	1.1.204			-
South Kemmendine (II)								153	4 4		1.3 94			
Kanaungto										3		7	13	
R. B														
F. I. (I)														
F. I. (II)														
Cantonment					•				l	7			2	
Total							1	459	14 10	470 35	5 4	7	966	10
Grand Total			1	5			7 3	3,20	4 394 73	4,892 43	4	48	3,643	3,62
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Ch. XIII. Sch. II. Sch. II. <</th> <th>h. II. Chap. VIIIA. Sch. II.
Ch. 1XA. H
Ch. 1XA. H
Ch. 1XA. Sch. II.
Ch. XII. Sch. II.
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Ch. XIII. H
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Ch. XIII. Sch. II.
Ch. XII. Sch. II. Sch. II. Sch. II.</th> <th>h. H. Chap. VIIIA. Sch. II
Ch. 1XA. Yi Seh. II. Ch. XII. Sch. II.
Ch. XIII. Sch. II.
Ch. XIII. H. Ch. XIII. Sch. II. Ch. XIII. Sch. III. Ch. XIII. Sch. II. /th> | I.I. Chap. VIIIA. Sch. II.
Ch. IXA. Sch. II.
Ch. IXA. Sch. II.
Ch. XIII. Sch. II. Sch. II. < | h. II. Chap. VIIIA. Sch. II.
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Ch. XIII. Sch. II.
Ch. XII. Sch. II. Sch. II. Sch. II. | h. H. Chap. VIIIA. Sch. II
Ch. 1XA. Yi Seh. II. Ch. XII. Sch. II.
Ch. XIII. Sch. II.
Ch. XIII. H. Ch. XIII. Sch. II. Ch. XIII. Sch. III. Ch. XIII. Sch. II. |

		Rai	ngoon	Munic	ipal	Act,	1922,
	and the second second second	Table		2.95	a	EAST	Town
Rule or Section.	Name of offence.	No. of prosecutions.	No. of cases with- drawn.	No. of cases tried.	No. of cases acquitted	No. of cases struck off.	No. of cases con- victed.
Sch II Chap. 1 Rule 1. Do. Rule 2	Failure to provide troughs and pipes for receiving, carrying and discharg- ing water from buildings Failure to pave court-yard, etc., for						
Do. Rule 12	efficient drainage Failure to provide water closet or closet accommodation or urinal and bathing						
Do. Rule 13	or washing places, etc Failure to provide closet accommodation						
Do. Rule 25 (1)	for factories Failure to repair latrine, urinal, bathing and washing places, etc	 7	2	5		2	
8ch. II Chap. VII Rule 1	Failure to provide receptacles for collecting and keeping rubbish and						
Do. Rule 2	offensive matter Accumulations of offensive matter on any street or premises			4			1
Sch. II Chap. VIII Rule 1	Failure to fill in pools which are a nuisance						
Sch. II Chap. VIIIA Rule 1	Failure to limewash premises	14	7	7		4	3
Do. Rale 2	Failure to clear and remove noxious						
Do. Rule 3 Do. Rule 7	Vegetation Bathing, or washing animals, clothes or other article or drying clothes in	7	1	6		2	4
Do. Rule 8	places not set apart for the purpose Washing of clothes by washermen in						
D0. 11010 0	places prohibited for the purpose	17	1	16		7	9
Sch. II Chap. IX Rule 1	Concealing of epidemic diseases	1		1		1	
Sch. 11 Chap. IX-A	Carrying on dangerous and offensive trade or keeping of any article for sale which is dangerous or likely to create a nuisance, without license	7		7		5	2
	per si an an in an an	1.31		. 100/21/20			11
	Carried over	57	11	46		24	22

Table No. 3.-Showing Number of cases Prosecuted and amount of fines Rangoon Municipal Act, 1922, imposed under the Ghee Act and the Different Sections of the City of during the year 1930.

DIVISION.		Ubuli Tet		EAS	T SUBURE	AN DIVISI	ON.		
Amount	t of	ions.	with-	ied.	hagesa As	truck	con-	Amoun	t of
E Fines	au Cost awarded.	No. of prosecutions.	No. of cases with- drawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases victed.	Fines imposed.	*sa Cost awarded.
	r	3		3		2	1	1	1
							•••		
50	3	20	5	15		5	10	131	10
					*				
10	1	4		4		3	1	1	1
		2		2		2			
16	. 3	9		9		6	8	60	3
125	4	1		1		1		·	
			····						
71	9	10		10	1	5	4	30	4
		1		1			1	δ	1
15	2	35	2	33		14	19	195	19
287	22	85	7	78	1	38	39	423	39

-			_										-		
		WES	Town	a Divis	ION.	r saturn	a na an		1	WEST S	UBUBBA	N DIVIS	SION.	Division of	-
ions.	with-	ed.	quitted	uck	con-	Amou	unt ef	ions.	with-	ied.		uck.	-	Am o	unt of
No. of prosecutions.	No. of csses drawn.	No. of cases tried.	No. of cases acquitted	No of cases struck off.	No. of cases c victed.	Eines imposed.	B Cost awarded	No. of prosecutions.	No. of cases v drawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases con- victed.	E Fines	to Cost a awarded.
8	3	5		2	3	51	3	2		2		1	1	5	1
1		1			1	20	1	1		1			1	15	1
								1		1		- 1			
													:	•	
1		1			1	1	1	29	3	26		14	12	89	12
11		11		7	4	85	4	8		8		4	4	40	4
								2		2		2			
20	2	18		10	8	92	8	39	3	36		14	22	225	22
								1		1			. 1	10	1
5		5		1	4	40	4	1		1		1			
4								21		21		7	14	75	14
1		1			1	75	1	1		1			1	40	1
16	5	11	42	4	7	210	7	95	75	20		9	11	176	11
63	10	53		24	29	574	29	201	81	120		53	67	675	67

Table No. 3.—Showing Number of cases Prosecuted and amount of fines Rangoon Municipal Act, 1922,

anol De			Tor	FAL.					
tions.	with-	ed.		truck	con-	Amou			
No. of prosecutions.	of cases with- n.	No. of cases tried.	Nu. of cases acquitted.	No. of cases struck off.	No. of cases con- victed.	Fines imposed.	Cost a warded.		Remarks.
No.	No. of drawn.	No. (No.	No.	No. victe	Rs.	Rs.		
12 22		01	11	50		Pul Partici	17		
13	3	10		5	5	57	5	11, 1.2	
2		2			2	35	2	e ol	
521	12 3.4	0.7			1. Sugar	Tensinge	ANT COLOR	10000	
1		1		1				Philo 1	
								toligno, di dati en	
57	10	47		21	26	271	26	dates be	ANY SALE
			1		ni pulua ori	Te automa	111111	di no di	
27		27		17	10	136	10	inicnì: Saish	
4		4		4					
82	12	70		34	36	393	36	Lo olse.	
1		1			1	10	1	1	
14		13		5	8	165	8	and firm in	
14		10							
								to obe	
48	1	47	1	19	27	176	27	13 Luch	
4		4.		1	3	120	. 3		
	82	71		32	. 39	596	39		
153	04	"		04	00	000	00		
						Spe Carl			
406	109	297	1	139	157	1,959	157		

imposed under the Ghee Act and the Different Sections of the City of during the year 1930.

		R	angoo	n Mun	icipal	Act,	1922
		(64)	Tory			East	Town
Rule or Section.	Name of offence.	No. of prosecutions.	No. of cases with- drawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases con- victed.
	Brought Forward	57	11	46		24	22
 Sch. II Chap. XII Rule 6 Do. Rule 10 (e) Do. Rule 10 (g) Do. Rule 13 Sch. II Chap. XIII Sch. II Chap. XV Sch. II Chap. XVI Do. Chap. XVII 	Not furnishing names of keepers of registered building	9 58 753 4 17 	3 1 	6 58 750 4 16 	:: .: .: .: .: .: .:	4 23 227 1 7 	2 35 520 3
 Milk bye-laws (Sec. 102, B. M. Act, 1898). Bye-laws for aerated water, Icecream, etc. (Sec. 102, B. M. Act, 1898). 	eating-houses, food stalls, tea-shops and places where sweets, etc., are sold Sale of milk or keeping cattle for sale of their milk in contravention of bye-laws	115 2 	16 	99 . 2 		68 1 	81 1
Sec. 132 Ghee Act	Sale of diseased animals or unwholesome articles intended for human food Adulteration of ghee or refusing ghee sample for analysis						
Sec. 142(S) of B.M. Act 1898.	Barbed Wire fencing						
Section 124	Storing or keeping in any premises articles prescribed as D and O or likely to be a nuisance or dangerous						
	Total	1,015	34	981	3	355	623

Table No. 3.—Showing Number of cases Prosecuted and amount of fines Rangoon Municipal Act, 1922 imposed under the Ghee Act and the Different Sections of the City of during the year 1930.

DIVISION.		and Tent			EAST	SUBURBA	N DIVISION.			
Amo	unt of	ions.	with-	ied.	uitted.	struck	con-	Amo	int of	
sa Fines imposed.	E Cost awarded.	No. of prosecut	No. of prosecutions.	No. of cases v drawn.	No. of cases tried.	No. of cases acquitted.	No. of cases soft.	No. of cases victed.	E Fines	Z Cost awarded.
287	22	85	7	78	1	38	89	432	39	
30	2	9	1	8		2	6	58	6	
282	35	3		3		2	1	5	1	
						•••				
3,232	520	151		151		42	109	663	109	
80 67	3 9	$26 \\ 89$		26 89		14 34	12 55	120 477	12 55	
528	31	66	11	55		32	23	358	23	
5	1	1		1		1				
		1	1	-						
		2		2	1		1	15	1	
4,511	623	433	20	413	2	165	246	2,119	246	

	8 1														
		WES	T Tow	N DIVIS	SION.	1.1963				WEST	SUBUB	BAN DI	VISION.	Chenton (
ions.	with-	ed.	quitted	struck	COD-	Amou	nt of	tions.	ith-	ed.		ruck	-000	-	int of
No. of prosecutions.	No. of cases drawn	No. of Cases tried.	No. of cases acquitted	No. of cases str off.	No. of cases con- victed	E Fines imposed.	z Cost awarded.	No. of prosecutions.	No. of cases with- drawn.	No. of cases tried.	No. of cases acquitted	No. of cases struck off.	No. of cases victed.	E Fines imposed.	E Cost awarded.
B. F. 63	10	53		24	29	574	29	201	81	120		53	67	675	67
33		33 [.]	1 	19 	13 		13 	3		3 		2	¹	10 	¹
904 8 1	2 	902 8 1		338 5	564 3	5,300 15 5	564 3 1	31 3 147		31 3 118		16 2 40	15 1 78	95 20 780	15 1 78
								3	20	1		•••	1	5	1
131 	12 	119		72	47	782	47 	64 	19 	45 	 	29 	16 		16
								4		4		2	2	7	2
													1	 10	 1
-			-			44	. /		-						
1,145	24	1,121	1	461	659	6,791	659	465	131	334		150	184	1,830	184

Table No. 3.—Showing Number of cases Prosecuted and amount of fines Rangoon Municipal Act, 1922

			Tor	AL.					
ions.	with-	ed.	uitted.	truck	-con-	Amoun	t of	transfing boxees ere	
No. of prosecutions.	No. of cases drawn.	No. of cases tried.	No. of cases acquitted.	No. of cases struck off.	No. of cases victed.	Bines imposed.	re Cost re awarded.	Remarks.	
3.F. 406	109	297	1	139	157	1,959	157	Machada, Olinaman Machada, Olinaman Machada, Watan Olinas washahanan	
31 97	4 	27 97	1	15 46	12 50	153 382	12 50	BaBling waden Debby a Paulane Lateration of pho	
1,839	Б	1,834	8	623	1,208	9,290	1,208	olisian ovinnilo Historia ovinne H	
41 254	<u>.</u>	41 224		22 81	19 143	235 1,329	19 143	90 or l'aspectiona è	
3	2	1			1	5	1		
						. Boto	amos .	B. Works. etc	
876	58	818	·	201	117	1,861	117	Ocollars. (a) Limavasier	
3		3		2	1	5	1	al endedig (4) anter 2017 (a) al the ender 2017	
						tonie	and makers	anata nata Ti (ar)	
Б	1	4		2	2	7	2	antidara nh 8. hoval - (a)	
								Manheta Theatres	
3		3	1		2	25	2	Sauitary equirent Dregeous & Offens	
	50.2				4.44 6.44		Ber Guiller	 (a) Lioenaas lus (b) Lioenars can 	
3,058	209	2,849	6	1,131	1,712	15,251	1,712		

the Court

imposed under the Ghee Act and the Different Sections of the City of during the year 1930. Summary of inspections made by the Sanitary Inspectors and Sanitary Works completed during the year 1930.

					No. o	anitary Inspections,
	A. Nature of Inspection or prem	ises vi	sited.			
1.	Dwelling houses excluding R. B. houses		1	1		42,908
2.	Milch cattle stables					1,388
3.	Other stables		The second second			788
4.	Milk, Ice-cream & Sherbet shops					959
5.	Public Eating houses & Tea shops, etc.					16,151
6.	R. B. Houses (1) Day					10,331
•	(2) Night					1,720
7.	Markets, Cinemas & Schools-No. of visi					4,098
8.	Aerated Water Works					344
9.	Other workshops & factories					817
0.	Building works					1,646
1.	Drains & Fittings					6,119
2.	Inspection of places where dangerous an	and the second sec				1 10
	offensive articles are stored					3,337
3.	Houses where epidemic diseases occurred					353
4.	Other Inspections & Inquiries	S				2,416
		No. of l	Inspections		-	93,375
	B. Works, etc., completed.					
1.	Dwellings.					
	(a) Limewashed					2,156
					318	2,156 1,044
	(a) Limewashed				313 313 8	06. 3 01
	(a) Limewashed(b) Kitchen floors repaired				313	1,044
	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired 	•			313	1,044 873
2.	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided 	·			313	1,044 873 81
2.	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned 	·			313	1,044 873 81
2.	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned Stables. (a) Paved & drained 	···· ···			313	1,044 873 81 19,834
	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned Stables. (a) Paved & drained (b) Cleaned & refuse removed 	· · · · · · · · · · · · · · · · · · ·			313	1,044 873 81 19,834 80
	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned Stables. (a) Paved & drained (b) Cleaned & refuse removed Markets, Theatres & Schools 			:::::::::::::::::::::::::::::::::::::::	313	1,044 873 81 19,834 80
3.	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned Stables. (a) Paved & drained (b) Cleaned & refuse removed Markets, Theatres & Schools Sanitary requirements carried out	· · · · · · · · · · · · · · · · · · ·			313	1,044 873 81 19,834 80 660
3.	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned Stables. (a) Paved & drained (b) Cleaned & refuse removed Markets, Theatres & Schools Sanitary requirements carried out Dangerous & Offensive Trades. 				313	1,044 873 81 19,834 80 660 54
2. 3.	 (a) Limewashed (b) Kitchen floors repaired (c) W. Cs. repaired (d) New W. Cs. provided (e) Water storage tanks cleaned Stables. (a) Paved & drained (b) Cleaned & refuse removed Markets, Theatres & Schools Sanitary requirements carried out			:::::::::::::::::::::::::::::::::::::::	313	1,044 873 81 19,834 80 660

	B. Works, etc., comple	eted—conclu	uded.			
5.	Milk, Ice & Aerated Water,	Sherbet & Ice	-cream	shops.		
	(a) Licenses issued(b) Licenses cancelled					190
6.	Public Eating Houses & Tea	shops, etc.				
	(a) Licenses issued(b) Licenses cancelled	62 ·				1,301 1
7.	Factories & Workshops.					
-	Limewashing etc., carried ou	ıt			1940	70
8.	Repairs, etc., done through C	Corporation Plu	mbers			226
9.	No. of cases of accumulativegetation, etc., removed	ion of refuse,	rank			3,619
10.	Latrine tubs provided					887
11.	Blockages removed					31,232
12.	Other Works completed	1. 200,0				618
	anar 3 cuc I	Details to be g	given.		· Replaced V	
	r	Cotal Sanitary	Works	completed		63,991

List of articles of unwholesome food and drink destroyed during the year 1930 as compared with that of the previous year.

EB4	•	vitin 0	Hat of t	ne provious year	
By Insp				1929.	1330.
	Milk			1,5971 viss	735 viss.
	Ghee			40 "	
	Butter			28 lbs.	6731 lbs.
	Cheese			24 "	40 ,,
61 -	Curd			12 ,,	2 3/4 "
	Aerated Waters	9		261 bottles.	265 bottles.
	Fish (fresh)			1,554 viss.	861 7/12 viss.
	Fish (dry)			45 "	11 ¹ / ₂ viss.
	Fish (tinned)			617 tins.	2,221 tins.
	Meat (fresh)			82 viss.	68½ & 3 lbs.
	Meat (dry)			31 ,,	Los Blacking norm
	Eggs			1,002 in No.	477 in No.
	Potatoes			9155 viss.	309 ¼ viss.
	Onions			872 ,,	336 ,,
	Garlic			51 ,,	6 <u>1</u> n
	Grain			7 ,, 246	tins & 10 viss.
	Vegetables			1,6611 ,,	1,025 viss.
	Fruits (fresh)			1 basket and 25,528 in number.	16,042 in number.
	Fruits (dry)			3 cases, 97 tins and 250 in number.	12 cases 2 viss & 9 in number.
	Preserved Fruits				tins & 9 in number.
	Condensed Milk			468 ,,	45 tins.
	Cocoa			lbs.	13 lbs.
	Biscuits				0 tins & 60% Ibs.
	Bread				237 lbs. & 1 viss.
				4 Rolls.	
	Chocolate			4 ,,	
	Patent Food				ins. & 21 viss
	Indian Sweetmes	at		1363 viss.	76 viss.
	Ham				Ibs. & 9 pieces.
	Cocoanuts			97 ,,	2 in No.
On reque	est from various j	firms.			
	Tinned Milk			24,169 tins.	
	Sterilised Milk			121 ,,	
	Condensed Milk			786 "	
	Libby's Milk			566 ,,	
	Cream			149 ,,	
	Cocoa			872 ,,	1.
	Patent Food			557 tins and	42 bottles.
	Butter	***		2581 tins.	
	Cheese			276 tins & 19	pieces.
	Feeders			1 tin.	
	Sardines			8,C87 tins.	
	Ham				s. & 90 pieces.
	Tax to			0 1080, 10 10	

...

Biscuits

...

4 cases & 10 tins.

On request from various firms-concluded.

Evaporated Milk	 617 tins.
Pears	 1 tin.
Chocolates	 (171 boxes, 395 tins. 645 packets, 62 bundles (1,859 slabs, 121 rolls & 62 sticks.
Sausages	 3 tins & 21 lbs.
Vermicelli	 61 packets & 65 'ins.
Salt	 3 tins.
Oatmeal	 7 tins
Cherry	 58 tins
Damaged Salmen	 401 tins.
Easter Eggs	 5 in number.
Apricot	 1 tin.
Asparagus tip	 2 tins.
Haggis	 26 tins,
Spagetti or Macaroni	 84 packets & 21 tins.
Federal milk	 18 tins.
Salt	 3 tins,
Baking Powder	 11 tins.
Tooth powder	 3 tins.
Cod roes	 2 tins.
Cabbage	 3 tins.
Oppenta water	 · 2 bottles.
Jelly	 3 bottles.
Ground Almond	 184 bottles.
Milk powder	 4 bottles
Arrow-reot	 53 bottles
Dry hops	 35 bottles.
Haddock	 39 bottles.
Tripes de mode	 88 bottles
Walnut Katchup	 32 bottles.
Chillies Sauce	 48 bottles.

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