9th triennial report of vaccination in Bengal.

Contributors

Bengal (India)

Publication/Creation

Calcutta: Bengal Secretariat Book Dept., [1914]

Persistent URL

https://wellcomecollection.org/works/ru4973ca

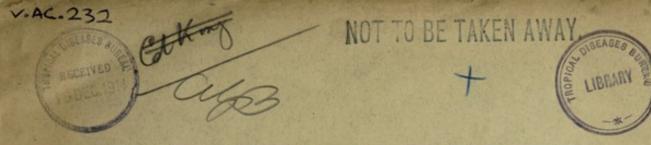
License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org



NINTH TRIENNIAL REPORT

on

VACCINATION IN BENGAL

for the years

1911-12, 1912-13 and 1913-14.

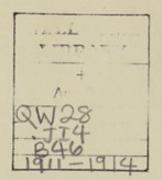
by

MAJOR A. B. FRY, M.D., D.P.H., I.M.S,
Officiating Sanitary Commissioner for Bengal.



CALCUTTA:
THE BENGAL SECRETARIAT BOOK DEPOT.
1914.

[Price-Indian, 8 annas ; English, 9 d.]







Digitized by the Internet Archive in 2019 with funding from Wellcome Library

NINTH TRIENNIAL REPORT

on

VACCINATION IN BENGAL

for the years

1911-12, 1912-13 and 1913-14.

by

Major A. B. FRY, M.D., D.P.H., I.M.S.,
Officiating Sanitary Commissioner for Bengal.





CALCUTTA:
THE BENGAL SECRETARIAT BOOK DEPOT.
1914.

Published at the Bengal Secretariat Book Depot, Writers' Buildings, Calcutta.

in India-

Messes. Thacker, Spink & Co., Calcutta and Simia.

Messes. Newman & Co., Calcutta.

Messes. Higgineotham & Co., Madras.

Messes. Thacker & Co., Ltd., Bombay.

Messes. A. J. Combridge & Co., Bombay.

The Superintendent, American Baptist Mission Press, Rangoon.

MES. RADHABAI ATMARAM SAGOON, Bombay.

Messes. R. Cameray & Co., Calcutta.
Rai Sahib M. Gulab Singh & Sons, Proprietors of the Mufid-i-am Press, Labore, Punjab.

MESSES THOMPSON & Co., Madras.

MESSIS I BONTSON & Co., Madras.
MESSIS S. MURTHY & Co., Madras.
MESSIS, GOPAL NARAYAN & Co., Bombay.
MESSIS, B. BANERJEE & Co., 25, Cornwallis Street, Calcutta.
MESSIS, S. K. Lahiri & Co., Printers and Booksellers, College Street, Calcutta.

Messes. S. K. Lahiri & Co., Printers and Booksellers, College Street, Calcutta.

Messes. V. Kalyanarama Iyer & Co., Booksellers, etc., Madias.

Messes. D. B. Taraforevala & Sons, Booksellers, Bombay.

Messes. G. A. Natesan & Co., Madras.

Mr. N. B. Mathur, Superintendent, Nazir Kanum Hind Press, Allahabad.

The Calcutta School Book Society, 309, Bow Bazar, Calcutta, and at Dacca.

Mr. Sunder Pandurang, Bombay.

Messes. A. M. and J. Fergcson, Ceylon.

Messes. Temfle & Co., Madras.

Messes. Combridge & Co., Madras.

Messes. A. Chand & Co., Lahore,
Babu S. C. Talukdar, Proprietor, Students & Co., Cooch Behar.

Messes. Ranchandra Govind & Son, Booksellers and Publishers, Kalhadevi, Bombay.

Messes. Butterworth & Co. (India), Ltd., Calcutta.

The Weldon Library, 18-5, Chewringhee Road, Calcutta.

Messes. M. C. Saekar & Sons, 75, Harrison Road, Calcutta.

Messes, M. C. Saekar & Sons, 75, Harrison Road, Calcutta.

In Great Britain-

Messes. A. Constable & Co., 10, Orange Street, Leicester Square, London, W.C. Messes. Grindlay & Co., 54, Parliament Street, London, S.W. Messes. Kegan, Paul. Therch, Trübner & Co., 68.74, Carter Lane, London, E.C. Messes. W. Thacker & Co., 2, Creed Lane, Ludgate Hill, London, W. Messes. W. Thacker & Co., 2, Creed Lane, Ludgate Hill, London, E.C. Messes. P. S. King & Son, 2 & 4, Great Smith Street, Westminster, London, S.W. Messes. H. S. King & Co., 65, Cornhill, Lendon, E.C. Messes. B. H. Blackwell, 50.51, Broad Street, Oxford.
Messes. Description, Bell & Co., Trinity Street, Cambridge.

MESSES. DEIGHTON, BELL & Co., Trinity Street, Cambridge.
MESSES. LUZAC & Co., 46, Great Russell Street, London, W.C.
MESSES, OLIVER AND BOYD, Tweeddale Court, Edinburgh.

MESSES. E. PONSONBY, LTD., 116, Grafton Street, Dublin. Mr. T. Fisher Unwin, 1. Adelphi Terrace, London, W.C.

On the Continent-

Messes. R. Friedländer & Sohn, 11, Carlstrasse, Becho, N.W. 6. Mr. Otto Harrassowitz, Leipzig, Germany. Mr. Karl W. Hiersemann, 29, Königstrasse, Leipzig, Germany.

Paris, France.

Mr. Ernest Leroux, Rue Bonaparte, Paris, I Mr. Martinus Nijhoff, The Hagne, Holland.

TRIENNIAL REPORT ON VACCINATION IN BENGAL FOR THE YEARS 1911-12, 1912-13 AND 1913-14.

 This report deals with vaccination in the reconstituted Presidency of Bengal for the triennial period 1911-12 to 1913-14.

2. Officer in charge of the Department.—Major W. W. Clemesha, M.D., D.P.H., I.M.S., was in charge of the department throughout the period under

report.

During 1911-12 the area covered by the reconstituted Presidency was in charge of two Deputy Sanitary Commissioners, while during 1912-13 practically there was only one Deputy Sanitary Commissioner, but from 1st February 1913, the Presidency has been divided into four sanitary circles, viz., Presidency, Burdwan, Rajshahi and Dacca. Captain H. M. Brown, 1 M.S., was in charge of the present Presidency and Burdwan Circles from 23rd May 1911 to 12th July 1912 and Captain A. M. Jukes, 1.M.S., from 13th July 1912 to the end of the triennial period, but he was relieved of the charge of the Burdwan Circle from 8th December 1913 by Captain K. K. Mukerji, 1.M.S. Drs. R. B. Khambata, M.R.C.S., D.P.H., and M. E. Sufi, B.A., D.P.H., held charge of the Rajshahi and Dacca Circles from 18th January 1913 and 7th April 1913 respectively to 31st March 1914.

3. Strength of Staff.—In Calcutta the average number of inspecting officers and vaccinators was 7 and 44 against 7 and 31 during 1908-09 to 1910-11. In the Provincial rural areas and mufassal Municipalities and dispensaries, etc., the inspecting staff and operators numbered 123 and 1,338 and 5 and 131 respectively against 118 and 1,309 and 5 and 134 during the

previous triennial period.

4. **General operations.**—The total number of operations performed in the Presidency during the past year was 1,857,294, of which 1,575,510 were primary and 281,784 re-vaccination cases against 1,984,399 with 1,787,143 primary cases and 197,256 re-vaccinations during 1912-13 and 1,946,584 with 1,803,652 primary cases and 142,932 re-vaccinations during 1911-12. The average of the triennial period under review was 1,929,425 with 1,722,101 primary and 207,324 re-vaccination cases against 1,910,605 with 1,709,966 primary and 200,639 re-vaccination cases of the previous triennial period 1908-09 to 1910-11. There was an average increase of 18,820 cases, of which 12,135 were in primary vaccination and 6,685 in re-vaccination.

The ratio of success under the two different heads, primary and re-vaccination, was 97:99 and 60:78 against 97:87 and 63:51 during 1908-09 to

1910-11.

The average work of a vaccinator was 1,245 against 1,275 of the previous triennial period. The average work of a licensed and paid vaccinator was 1,340 and 768 against 1,346 and 822 respectively during 1908-09 to 1910-11.

Compared with the previous year, there was an increase of operations in 11 and a decrease in 16 districts. The increase was marked in Rangpur, 16.119, Khulna 7,623 and Bankura 6,257, while the decrease calling for notice occurred in 5 districts, viz., Bakarganj 70,240, Pabna 17,616, Dacca 13,309, Midnapore 11,865 and Tippera 11,257. In Rangpur and Khulna the increase is attributed to greater interest shown by the District Magistrate and his subordinates and to activity on the part of the staff in suppressing outbreaks of small-pox. No explanation of the increase has been furnished by the Civil Surgeon of Bankura, but it is evident from the greater prevalence of small-pox in this district as compared with the previous year that the same cause is responsible for the increase here as in the other two districts named. In Bakarganj there was a large decrease, but the explanation is quite clear. The prolonged tour of the Deputy Sanitary Commissioner of the Dacca Circle in this district during the last cold weather discloses that the figures of previous years were totally unreliable and it is doubtful if the figures furnished in this report are correct. The Civil Surgeon of Dacca ascribes the decrease to prevalence of malarial fever in the Manickganj and Sadar Subdivisions which retarded the progress of work in them and also to greater prevalence of smallpox during the preceding year which swelled the number of operations in that year. This explanation must be accepted with reservation, as I doubt also the accuracy of the figures of the Dacca district which was the worst sufferer from small-pox during 1913. In Midnapore the decrease is said to be due to the adults of the district having been protected in Previous years, less subjects being thus left for vaccination. No satisfactory explanation of the decrease in Tippera has been furnished, but I am afraid the figures cannot be relied on

for accuracy.

5. Protection afforded to infants.—During the past year 1913-14 out of 1.254,652, the estimated number of infants under one year available for vaccination, 580,639, that is, 462'78 per thousand, were successfully vaccinated against 480'79 during the preceding year 1912-13. In 13 districts the protection was over 500 per mille, while in 14 it was below this standard, the same as in the preceding year. As already stated in the last report, the low rate of infant protection is due to the backward condition of vaccination in the Eastern Bengal districts where there is still great opposition to vaccination specially of infants under one year of age. Bakarganj, Dacca and Chittagong were the worst protected districts as regards infant vaccination, the protection in these districts having been 83'63, 248'68 and 250'16 per thousand respectively.

The protection afforded to infants in Municipalities is shewn in Appendix VII attached to the report. It will be seen that 768.45 per mille of the surviving infant population was protected during the past year. The attention of Civil Surgeons has, as usual, been drawn to their responsibility in the matter

of infant vaccination in towns wherever the protection is inadequate.

6. Recess work.—One hundred thirty-four thousand five hundred and thirty-nine operations were performed during the recess or non-working season of 1913-14 chiefly in connection with small-pox epidemics and the up-keep of lymph for emergencies against 112,955 during 1912-13 and 122,260 during 1911-12. The average of the triennial period under review was

123,251 against 185,544 of the previous epoch.

7. Six-puncture Vaccination.—The six-puncture system of vaccination was introduced in the districts of Eastern Bengal during 1912-13 and only a small amount of work with six-punctures was done during that year in some of the districts there, but during the past year the method was adopted in every district. In spite of strong opposition from parents or guardians to have their infants vaccinated under this system, 695,807 successful primary operations were performed in six-points during 1913-14 as compared with 333,903 during 1912-13 and 273,402 during 1911-12. The number of revaccinations performed with this method was 47,899 against 7,563, and 3,301 during the two preceding years. The average of the triennial period in primary vaccination and re-vaccination was 434,371 and 19,588.

8. Factory and tea garden vaccination.—The total number of primary and re-vaccination operations performed in factories and tea gardens in Bengal during 1913-14 was 2,640 and 1,672 against 3,386 and 1,291 during 1912-13 and 2,752 and 665 during 1911-12. The average of the triennial period in

primary vaccination and re-vaccination was 2,926 and 1,209.

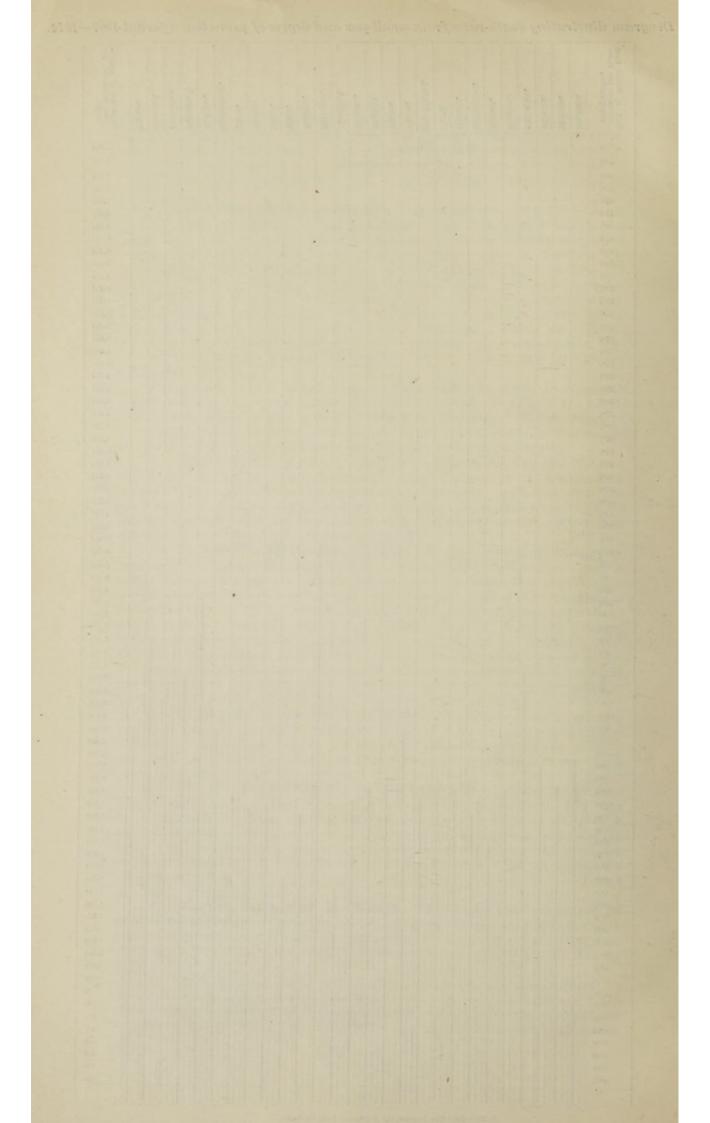
9. **Cost of and contribution towards vaccination.**—The total average cost of vaccination in Bengal for the triennial period under review was Rs. 1,79,380-10-7 against Rs. 1,62,068-4-6 during 1909-11, the cost of each successful vaccination being one anna and seven pies against one anna and six pies. Out of the average cost of vaccination as shown above Rs. 2,448-8-9 were contributed by District Boards and Rs. 84-2-8 by cantonments, the corresponding figures for the previous triennial period being Rs. 1,331 and Rs. 104-11-6 respectively.

10. Diagram illustrating death rates from small-pox and degree of protection afforded.—The diagram facing this page illustrates the death-rates from small-pox in each district, the proportion of population protected against the disease by vaccination during the past seven years being shown side by

side.

11. Deaths from small-pox.—During 1913-14 the total number of deaths from small-pox in the Presidency was 8,134 against 9,684 and 6,674 during 1912-13 and 1911-12 respectively, the ratio of deaths per 1,000 of the population being 17 against 21 and 14 during the two preceding years.

"	cern tett				9 -					-	-				-	-		-	9.	-	-0	10.	-			· · ·	, 0,	· ·	a 1501—
	Ratio of deaths from small-pox per 10,000 of population.	1				1											1	1											1 2 2
١	201														1		1												Propertion of popula- tion protected per 10,000,
	least of r							4			a.d.					136	13						4						f g g
	od de	80.	8	ž	boto	15	4	Ran	1		bhab	2	4	thi.	our.	E.	ding	10	1.				orling	10	(und	goog	all.	4	thon thon
	of pe	Burdwan.	Birbbum.	Bankura.	Midnapore.	Hooghly.	Howish,	24-Parganas.	Calcutta.	Nadla.	Murshidabad,	Joseph.	Khulna.	Rajshahi.	Dinajpur.	Jalpalgurf.	Darjeeling.	Rangpur,	Bogra.	Paboa,	Mabla.	Dacca.	Mymensingh,	Faridpur.	Bakarganj.	Chittagong.	Noakhall.	Tippora.	oper ilon 10,00
1	2	ă	西	1 1	×	H	=	4	3	×	×	3	×	a a	Ā	P.	ā	M	Ä	2	×	P	×	2	B	6	×	F	2
1	48'0													1															7,500
1	47.0																												7,400
1	46.0																												7,360
1	45.0																-								1				7,260
1	44.0																						5						7,100
1	43.0																												7,000
1	42-0																												6,990
1	40-0					2																							6,100
1	39-6																												6,600
1	3810																												6,500
1	31.0											1			-	100						1			-	-			6,400
1	36-0																						-						6,300
1	34-0																												6,200
1	32-0					88	3.																						6,000
1	32-0																												5,900
1	31-0					100																							5,800
1	30-0																												5,700
1	29·0 28·0																									-			5,600
1	27-0																1									1			5,590 5,690
1	26'0																									1			5,300
1	25.0																												5,200
1	24*0							10																			-		5,100
1	23-0																						Н		4	- }			5,000
1	21.0				-																								4,800
1	2010																												4,700
1	1970																												4,600
1	18*0																												4,500
1	17'0									8		-					1												4,400
1	15'0	-															П												4,300 4,200
1	14.0																П												4,100
1	13.0																П												4,000
1	12.0																ш							1					3,900
1	11.0																ш							ш					3,800
ł	10.0			4													н							н		1			3,700
1	810																ш												3,600
1	710																п					,							3,400
1	610																								1				3,300
1	50				ш												-								Н	Ш			3,209
ł	4°0 3°0				Н												н					Н			н	Ш			3,100
1	20				ы												н							1	П	Ш		300	2,900 2,900
1	1.0											1					ш									Ш	Ш	П	2,800
1	0.80																												2,700
1	0%0			1						1											1								2,600
1	0-00		1									1	1								1								2,500
1	0%0										1				,							1							2,400
1	6*40	1						1										1			1								2,200
1	0.30			1							1						1												2,100
1	0.50						1																						2.000
1	0.18			11																									1,900
1	0.12																	1											1,500
1	0.16															1													1,600
1	0.12																						11						1,500
1	0.14																												1,400
1	0.13																												1,300
1	0-11				1					1						1													1,100
4	0*10																												1,000
1	0.00																												900
1	0108																												800
1	0.02																												700
	0105																												600 500
	0.04												1						11										400
1	0-03																												300
1	0.03																												200
1	10-01																												100
1	-		1		Ш			11	11	1										111	11								0
							Var	R-T		-	-			2		1		1						1					



The largest number of deaths were recorded in the districts of Dacca (2,079), Chittagong (1,469), Mymensingh (1,429), Tippera (437), Midnapore (401), Dinajpur (360), Calcutta (316), Noakhali (309), Faridpur (217), Bakarganj (188), 24-Parganas (134), Hooghly (131) and Howrah (131), while the districts of Bogra, Khulna and Darjeeling show only 5, 7, and 9 deaths respectively. It will be seen that a very large majority, 83'86 per cent. of the deaths occurred in the Eastern Bengal districts, where recent inspection by the Deputy Sanitary Commissioner revealed great laxity and want of management and supervision of vaccination by the subordinate staff. I have already brought this to the notice of Government in a separate communication with a view to remedial measures being adopted.

12. Animal Vaccine Depot.—During 1913-14 altogether 2,212 calves were vaccinated at the Animal Vaccination Depôt, Calcutta, against 2,253 and 1,973 in the two preceding years, the quantity of lymph manufactured therefrom being 744,054, 675,228 and 568,113 grains respectively. The average of the triennial period was 2,146 calves and 662,465 grains of lymph against

1,896 calves and 516,658 grains of lymph during the previous epoch.

13. Different methods of vaccination.—During the past year 21,149 primary operations were performed with lymph taken direct from calf, 595,642 with lanoline lymph, 955,768 with glycerinated lymph manufactured at the Shillong Animal Vaccination Depot, and 1,631 by the arm-to-arm method against 26,347, 619,948, 1,139,989 and 859 respectively during the preceding year and 17,689, 635,651, 1,135,619 and Nil during the year before (1911-12). The ratio per cent. of success under each of these methods of vaccination was 97.69, 98.76, 98.13 and 94.91 respectively against 98.51, 98.19, 97.28 and 90.10 respectively during 1912-13 and 99.81, 98.39, 96.75 and Nil respectively during 1911-12. The number of re-vaccinations under each of these processes of vaccination was 11,216, 65.523, 203,771, and 727 with a success of 50.98, 55.70, 63.76 and 56.67 per cent. as compared with 11,933, 48,687, 136,189 and 387 operations with a success of 44.78, 43.54, 62.55 and 77.5 per cent. during 1912-13 and 2,869, 36,031, 96.187 and 207 operations with a success of 54.13, 44.50, 63.68 and 50.24 respectively during 1911-12.

14. Inspections.—During 1913-14 Captain A. M. Jukes, I.M.S., Captain K. K. Mukerji, I.M.S., and Dr. R. B. Khambata, Deputy Sanitary Commissioners of the Presidency, Burdwan and Rajshahi Circles, inspected 15,566, 19,500 and 10,585 operations respectively. Dr. M. E. Sufi, Deputy Sanitary Commissioner of the Dacca Circle, was able to inspect only 4,542 cases as all his time was taken up in overcoming opposition to vaccination, checking the accuracy of previous year's vaccination figures, and organising as far as possible proper vaccination measures in the Bakarganj District. The Civil Surgeons saw 59,778 or 3.22 per cent. of the total operations performed in the Presidency. Two of them, viz., the Civil Surgeons of Midnapore and Dinajpur, saw 5,000 to 10,000 operations, 11 from 2,000 to 5,000, 3 from 1,000 to 2,000 and 11 below 1,000 cases. The Civil Surgeon of Faridpur reported that he was unable to inspect vaccination for want of time. This explanation cannot

be considered satisfactory.

The Vaccination Inspectors and Sub-Inspectors inspected 1,279,122 cases or 68'87 per cent. of the total operations performed in the Presidency. No fixed percentage of inspection is now insisted on in the case of these officers. Under this Department Circular No. 15, dated the 19th July 1911, these officers are now required to pay more attention to the quality than to the quantity of work done and to report on each vaccinator's work. Every Inspector inspects the work of all the vaccinators once and every Sub-

Inspector twice during the season.

15. **General remarks.**—During 1913-14, the system of antiseptic vaccination which is in force in the districts of West Bengal was introduced into the Eastern Bengal districts and it appears from the reports received from Civil Surgeons that the result has been fairly satisfactory. A revised scale of travelling allowance for the subordinate vaccination inspecting staff has been introduced with the sanction of Government—It is hoped that this, by preventing the abuses in travelling which existed before, will lead to more efficient supervision of vaccination. The increase in the number of Deputy Sanitary Commissioners has rendered it possible to organise a thorough and

systematic inspection of vaccination by the superior officers of the Department, the want of which was so keenly felt by myself and my predecessors. Already many abuses practised by the vaccinators and the Inspectors and Sub-Inspectors of Vaccination have been brought to light and prompt measures are being taken to remedy these. In some of the Eastern Bengal districts, specially Bakarganj, inaccurate figures have been for years furnished to swell the number of vaccinations in the returns, whereas on close inspection it appears that actually very little work was done. This is a serious matter and it is no wonder that mortality from small-pox has gone on increasing in these districts during the past five years. It is urgently necessary to take strong measures to put a stop to the abuses referred to. I have already in a separate communication asked for Government sanction to the entertainment of two special Supervising Officers who will help the Deputy Sanitary Commissioner in carrying out the necessary reforms.

16. The prescribed statements are appended to this report.

A. B. FRY, M.D., D.P.H., MAJOR, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

CALCUTTA, The 11th June 1914. STATISTICAL RETURNS.

STATEMENT No. I-Showing particulars of Vaccination

									t according	per square	vacelinators it the year.		SUMBER OF VAC INATES		of persons reactinator.
No.				Dis	TRECT.				Population of district a	Average population mile.	Average number of views, oyed theorgout	Male,	Female.	Total,	Average number o
1					2				3	4	5		6		7
	-		1	byrdin	m Division.					-					
1 2 3 4 5 6	Burdwan Birbbum Bankura Midnapur Hoognly Howrah			-	Licensed Paid by I Licensed Licensed Do, Do, Do.	·	rd ::		1,444,185 926,342 1,081,464 2,738,301 938,615 741,719	541 529 { 415 531 811 1,489	35 1 21 57 106 37 24	27,912 88 13,229 21,951 85,826 17,875 10,845	24,658 103 12,443 20,461 69,671 16,310 10,422	52,570 191 25,672 42,412 155,497 34,185 21,267	1,502 191 1,222 744 1,467 924 886
	Total of B	on bera n	Divisio		Poid by D	istrict Boar	ed		7,870,626	569 (280	88 177,638	163 153,965	331,603	191 1,184
	Addat of B	urawaa	Litano				Total) 1,510,120		281	177,796	154,068	331,794	1,181
7 3 9 10 11 12	24- "arganas Calcutra Nadia Murshidabad Jessoce Khulna			-	Licensed Paid by M Licensed Do Do.				1,885,590 896,067 1,511,928 1,728,791 1,727,066 1,337,579	900 28,002 553 609 596 650	61 58 52 45 66 40	29,444 46,127 27,639 19,411 37,955 29,949	28,790 22,847 23,315 17,958 33,574 28,335	58,234 69, 81 73,154 37,369 73,829 58,334	954 1,193 1,022 830 1,118 1,458
	Total of P	and bear	- Dield		Licensed	alcutta Mu	nicipality	***)	718.	58 264	45,337 144,398	22,847 136,122	69,184 280,920	1,193
	AOUNI OU E	reservation.	3 Trivin		-		Total	***	8,667,021	110	322	190,735	159,369	350,104	1,087
13 14 15 16 17 18 19 20	Rajshahi Dina jpur Jalpaiguri Dar jeeding Rangpur Bogra — Pabna — Malda —				M Dirinion. Licensed Do. Do. (a) Paid by I) Ditto Ditto		0		1,449,930 1,671,918 810,835 240,971 2,369,991 970,366 1,384,535 962,765	554 424 376 208 682 715 734 509	35 37 21 14 63 20 30 23	25,259 33,924 9,270 8,882 46,470 11,922 19,333 15,703	22,360 26,085 8,193 8,746 39,14 10,530 16,594 44,161	48,619 60,009 17,463 17,628 86,414 22,442 35,927 29,884	1,389 1,622 831 1,259 1,371 1,:22 1,197 1,298
					Paid by Fund.	Darjeeling	Improve	ment	1	1	14	8,832	8,746	17,498	1,259
	Total of Re	ajshahi	Division		Licensed			***	9,939,281	518	229	162,871	137,867	30),738	1,313
				Dacos	Dirition.		Total	***	1		243	171,763	146,613	318,366	1,310
21 22 23 24	Dacea Mymeusingh Faridpur Bakarganj		- :		Do, Do, Do,	*** *	= =		2,823,975 4,404,353 2,089,710 2,380,293	1,021 711 815 515	65 117 80 72	56,929 130,988 47,053 27,313	50,820 94,651 41,719 21,880	107,249 223,639 88,772 49,193	1,650 1,928 1,109 683
	Total of De	seea Di							11,698,331	724	334	262,283	204.570	470,813	1,409
25 26 27 28	Chittagong Noakhali Tipp:ra Chittagong Hi	Trac			ng Division. Liceused Do. Do. Taid by G	overnment			1,475,289 1,295,081 2,372,434 153,879	593 788 954 30	59 46 86 11	48,135 44,628 60,474 3,908	38,125 34,313 52,035 3,602	87,060 78,941 112,509 7,510	1,475 1,716 1,308 683
	Total of Ch	littagor	g Divis	ion .	Paid by G	overnment	. ::		5,296,683	451	11 191	3,908 143,237	3,602 125,273	7,510 278,510	683 1,458
					(Total	***	,		203	157,145	128,875	286,020	1,416
	Total for th	he Prov	ince .		Faid by D Paid by C Licensed Paid by Fund. Paid by G	Darjeeling	nicipality		43.471,942	608	1 58 1,298 14	88 44,337 900,417 8,882 3,908	103 22,847 762,197 8,746 3,602	191 69,184 1,662,624 17,628 7,510	191 1,193 1,281 1,259 683
						-	TOTAL				1000	959,642		1,757,137	1,971

Sum

		UMBER OF ACCINATED.		MBER OF LTIONS DRMED,
	Primary.	Re-vaccina-	Primary.	Re-vaccira-
By Special Staff.				
Licensed	1,457,815	204,809	1.464,498	295,219
Municipalities, J. ils, Cantonments, Dispensaries and Rallways By other agencies.	60,966	29,534	61.416	29,569
District Boards, Calcutta Corporation, Darjeeling Improvement Fund and paid by Government,	48,064	45,449	48,276	40,449
Total	1,566,845	280,792	1,574,190	281,237

in the districts of Bengal during the year 1913-14.

29	IRIMAR	VACCIS:			RE-V	ACCINATI	ion.	PER TENT SUCCES CASES WHICH RESULTS	SPCL IN THE WERE	a ct	PERCE OF UNK CASES TO CASE	TOTAL	AVERAGE AN NUMBER OF SONS SUCCESS VACCINAT DURING THE	PER- FULLY ED	AVERAGE A NUMBE DEATHS SMALL DURIN TE	R OF FROM -POX IE PRE-
Total.	Under I year.	1 year and under 6 years.	Total of all ages.	Unknown.	Total.	Saccessful.	Unknown.	Primary.	Re-vaccination.	Persons successfully per 1,000 of popula	Primary.	Be-vaccination.	N N N N N N N N N N N N N N N N N N N	Ratio per 1,000 of population.	VIOUS FIVE	Ratio per 1,000 of population.
8	2.	10	n	19	13	14	15	16	17	18	19	20	21	22	23	24
52,150 146 25,306 41,993 105,209 34,103 21,287	25,311 39 11,760 15,722 64,575 13,617 7,582	27,741 69 10,914 23,286 42,161 17,124 12,314	52,000 144 25,233 41,956 101,863 23,737 21,102	8 2 4 202 26 23	502 45 379 419 53,430 447 75	226 8 219 250 30,442 338 25	1,006	99'82 100'00 99'71 99'92 96'93 99'00 99'24	45*02 17*77 57*78 59*66 58*06 75*61 36*73	36 20 27.64 { 39.02 48 31 36.30 28.48	'01 1'37 '009 '19 '07 '10	1.88	55,864 } 33,559 41,799 134,315 34,335 21,642	28'68 26'22 28'18 45'43 26'58 29'17	376 233 308 895 384 420	126 123 128 122 140 136
280,117 280,263	29 118,567 118,606	129,340 129,409	275,953 276,097	2 263 264	45 55,252 55,297	31,500 31,508	1,012	99.60	17:77 58:07	39'08 {	1'37	1'83	321,014	40-78	2,616	-23
59,500 26,302 32,886 36,974 72,782 57,855	26,286 9,708 29,448 19,744 32,347 27,748	25,694 15,506 22,658 16,386 34,895 26,354	07,806 23,707 52,722 36,436 72,656 57,775	49 509 17 193 8 24	252 42,882 415 426 1,047 493	194 19,056 203 278 580 367	3,492 5 45 	97°30 99°66 99°72 99°06 99°83 99°90	76'98 48'37 49'31 72'96 55'39 81'55	30-78 49-95 34-77 28-48 42-16 43-46	. '08 1-93 -03 -52 '01 -04	8°14 1°20 10°46	62,779 30,230 57,161 44,534 73,069 47,672	33-29 33-73 37-55 34-55 42-64 35-64	816 876 108 232 202 47	727 797 707 718 711 703
26,302 280,006 306,308	9,708 136,973 146,281	15,506 125,997 141,493	25,707 277,445 203,152	509 291 800	42,882 2,633 45,515	19,056 1,622 20,678	3,492 93 3,585	99-22	49:37 63:86 49:31	32-19	1-93 '10	8°14 3°53 7'87	315,445	36:39	1,981	-22
42,088 49,674 16,696 14,644 84,060 22,181 34,066 29,175	23,711 19,480 9,969 5,075 24,438 10,013 10,682 22,385	17,210 26,793 6,171 5,768 54,287 11,122 21,460 6,526	41,765 48,489 16,554 14,214 82,828 27,131 33,851 29,008	57 205 11 419 241 178 80	6,553 19,363 838 3,097 2,377 309 1,379 778	4,939 6,647 723 2,253 1,304 126 734 483	218 207 6 28 185 8 44 26	99°36 98°02 99°21 99°92 98°81 99°77 98°44 99°70	77'96 65'45 86'99 73'41 59'49 41'96 54 98 64'99	32*23 32*97 19*39 68*23 35*51 22*93 24*97 30*63	13 '41 '06 2'86 '28 '28 ' '51 '27	3·32 199 -71 '90 7·78 259 3·19 3·34	50,264 59,861 20,955 14,112 74,961 23,600 46,905 32,257	34'69 35'80 23'52 58'56 31'39 24'32 33'87 33'49	269 781 180 9 2,356 797 459 78	1,8 146 120 103 199 182 123 108
14,644 278,445	5,075 190,738	5,769 143,549	14,214 274,626 288,840	419 773	3,097 22,597	2,253 14,956	28 694 722	99'92 98'90 98'90	73°41 68°28 68°91	30-79	2'86 '27 '40	-90 8'07	392,315	82-42	4.929	40
91,257 169,317 81,628 47,920	19,395 46,946 20,937 5,162	61,579 96,373 45,275 23,331	88,632 165,815 80,581 46,759	729 970 264 299	25,694 16,351 56,354 7,641 1,368	7,217 46,212 5,231 750	686 1,278 376 62	97'90 98'49 99'03 98'19	46°07 83°90 72°00 \$6°76	33'91 48'14 41'06 19'95	79 '57 '32 '62	4°19 2°26 4°92 5,99	98,427 184,432 122,676 125,166	34°85 41°87 59°18 52°58	1,046 2,633 248 262	*37 *60 *11 *11
390,122	92,440	226,558	381,787	2,262	61,714	59,390	2,422	98'43	74'90	37:71	-97	276	\$31,701	45-45	4,189	*35
66,996 60,689 108,123 7,184	10,264 23,766 39,431 1,468	47,160 30,660 57,915 3,636	65,358 60,019 106,714 7,032	443 113 393 17	20,064 18,369 4,590 425	13,748 13,932 3,332 192	683 623 234 1	98-20 99-08 99-08 99-08	70°93 78°30 76°49 45°28	53'62 57'10 46'38 46'98	766 *18 *36 *23	3°40 3°39 5°09 23	69,518 65,718 99,285 5,970	47·12 50·74 41·84 38·79	Not unde	*11 *07 *18 or regustra log,
7,184 235,808	1,468 72,961	3,656 185,725	7,033 232,091	17 949	425 43,023	192 31,012	1,540	-	45-28 74-75	\$51-03 ·	1'30	23 3:58	240,491	45-40	716	-11
146 26,302 1,464,418 14,644 7,184	74,419 39 9,708 541,279 5,075 1,468	139,391 69 15,506 761,169 5,768 3,656	239,123 144 25,707 1,441,902 14,214 7,032	966 2 509 4,538 419 17			3,492 5,761 28	99-93	74-46 17-77 48:37 69:42 73:41 45:28	37'99	1'37 1'93 '30	874 874 2780 2780 272	1,730,966	39'81	14,431	-
1,512,774	557,569	786,168	1,488,999	5,495	251,668	159,989	9,282	98.18	66100	1	1 .36	3769	j			

mary.

IN WRICE	NTAGE OF FUL CASE: II RESULTS KNOWN,	OF PERSONATED	ENUMBER ONS VACCI. BY EACH CATOR.			Ratio of successful vaccina- tions	Total cost of Depart-	Average cost of each
Primary.	Re-vaccina-	Vaccin- ators employed.	Persons vaccinated by each vaccinator.	Under 1 year.	1 and under 6 years.	per 1,000 of popu- lation.	ment.	successful case.
98:76	69-42	1,228	1,281	541,279	761,169		Bs. A. P.	Rs. A. P.
98-30	47/49	129	701	23,074	30,789	37-83	198,162 8 2	0 : 10
99'51	50-10	84	1,125	16.220	24,999)		
98'76	64.18	1,511	1,223	560,643	816,967			

which could not be had, hence they have been excluded from this statement,

STATEMENT II .- Showing the cost of Vaccination in the

											-90			EXPEN-
No.	CIRCLE AND DISTRICT.	Furopean Super- vising Officers,	Pay.	Native Super- vising Officers.	Pay.	Paid vaccinators.	Pay.	Licensed vacel- nators.	Pay.	Cherks.	Pay-	Pepas, ebc.	Pay.	Total pay of establishment.
1	2	3	4		6	7	8	9	10	11	12	13	14	15
	Burdsean Dictation.	10	Rs. 24 P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.
1 2 3	Burdwan Birbham Bankura	=	::	5 3 3	1,872 0 0 1,225 0 0 1,140 0 0	₁	436 4	35 21 57	32 4 0 (a)	111	=	111	=	1,872 0 0 1,300 10 4 1,140 0 0
5 6	Midnapere Hoophly Howrah			7 4 3	2,626 13 0 1,613 1 8 1,040 0 0	=	-	106 37 24	2,221 0 0 31 4 0		-			4,857 13 0 1,644 5 8 1,050 0 0
	Total of Burdwan Division.			25	9,536 14 8	1	43 6 4	280	2,284 8 0		-		-	11,864 18 0
	Presidency Division.							-						
7 8	24-Parganas Calcutta Animai Vaccina- tion Depo: for manufac-		-	7 5	2,520 0 0 4,848 6 1	-	=	61		ï	240 0 0	20	2,138 11 1	2,520 0 0 7,227 1 2
9 10 11 12 13	taring lymph. Calcutta (b) Nadia Murshidabad Jasore Khulma			9 6 5 6 4	6,559 5 0 2,194 14 4 1,889 0 11 2,116 11 2 1,691 7 1	58	14.483 4 2	52 45 66 40	=			18	2.066 2 8	23,107 11 10 2,194 14 4 1,889 0 11 2,116 11 2 1,691 7 1
-	To all of Presidency Division.			42	21,819 12 7	58	14,482 4 3	204		1	240 0 0	38	4,204 13 9	40,766 14 6
	Rajshahi Division.	_		4	1,525 7 6			35		-				1,525 7 6
14 15 16 17 18 19 20	Dinajpur Jalapalgeri		-	4 3 3 5 2 3 2	1,500 0 0 1,331 1 9 1,980 0 0 2,064 7 11 957 0 0 1,157 4 3	15(e)	1,975 12 9	27 21 63 20 30 23	6 12 0 31 0 0	=======================================		1111111		1,500 0 0 1,337 13 9 3,355 12 9 2,005 7 11 957 0 0 1,157 4 3 859 8 5
21	Total of Rajshahi Etvision.		-	16	11,355 5 5	15	1,375 12 9	229	57 4 5					12,788 6 7
	Ducca Division.												100	196
22 23 24 25	Dacca Mymensingh Faridpur Bakarganj		=	5 7 6 5	2.171 14 5 2.634 0 11 2.214 11 9 1.740 0 0	-	=	65 117 80 72	454 9 0 210 12 0 141 12 0	1111	-		-	2,626 7 5 2,844 #2 11 2,356 7 9 1,740 0 0
	Total of Dacca Division-	***	100	23	8,760 11 1	***		334	807 1 0					9,567 12 1
	Chittagong Dicision.													
26 27 28 29	Chittagong	1111		3 4 4 3	1,121 2 0 1,662 2 6 1,408 5 8 1,620 0 0	= 11	948 0 0	59 46 86	130 8 0 134 12 0 91 4 0			1111	-	1,251 10 0 1,796 14 6 1,589 9 8 2,568 0 0
	Total of Chittagong Division.			14	5,901 10 2	11	948 0 0	191	356 8 0			***	***	7,206 2 2
	Total of the Vaccina- tion Circles.			130	57,874 5 11	15	16,849 7 3	1,298	3,505 5 5	1	240 0 0	38	4,204 13 9	82,174 0 4
30	Establishment of the Deputy Saultary Commis- slovers.		25,348 0 7		***			-	-	5	2,021 11 8	6	404 2 5	27,773 14 3
	Total of the Province	4	25,348 0 7	'130(e)	57,374 5 11	15	16,849 7 3	1.298	3,595 5 5	6	2,261 11 3	44	4,609 0 2	1,09.947 14 7
31 82	Municipalities Railway Vaccination		=	4	2,409 0 0	129	14,184 6 2	=	=			9	205 6 9	16,798 19 11
	GRAND TOTAL	4	25,348 0 7	134	59,783 5 11	214	31,033 13 5	1,798	3,500 5 5	6	2,261 11 3	46	4,814 6 11	1,26,746 11 6

The cost of each successful

⁽a) Includes Rs. 1.840 as compensation to (b) In Oxientia 9 Inspectors Include 2 (c) In Darjeeling 15 paid vaccinates include (d) Peparation allowance paid to vacci-(e) In addition to this there are 3 supernu

districts of Bengal during the year 1913-14.

ITURE.						PA	ID FROM-			The American	
Travelling allowance.	Cost of lymph.	Other contingencies.	Total cost.	Imperial fund.	Provincial fund.	Local fund.	Musicipalities.	Native States,	Total.	Number of all successful vaccinations and re- vaccinations,	Average co of each successfu case.
16	17	18	19	20	21	22	23	24	25	26	27
Rs. A. P.	Rt. A. P.	Re. A. P.	Rs. A. P.		Be. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P
1,483 9 0 825 13 0 960 15 6 1,974 1 1 597 4 11 446 14 6	135 0 0 24 12 0	208 0 0 140 13 9 164 0 0 202 0 0 131 5 0 120 11 9	3,563 9 0 2,767 5 1 2,764 15 6 7,358 14 1 2,397 11 7 1,617 10 3		3,563 9 0 2,223 14 9 2,264 15 6 5,108 14 1 2,372 15 7 1,617 10 3	43 6 4 2,250 0 0 24 12 0		***	3,563 9 0 7,367 5 1 2,264 15 6 7,358 14 1 2,397 11 7 1,617 10 3	52,286 25,604 42,206 132,307 34,075 21,127	0 1 0 1 0 0 1 0 0 1 0 1
6,288 10 0	159 12 0	1,156 14 6	19,470 1 = 6		17.151 15 2	2,318 2 4		-	19,470 1 6	207,605	
1,796 12 0	-	219 0 6 12,100 0 0	6,465 12 6 19,327 1 2		4,665 12 6 19,327 1 2		=		4,465 12 6 19,127 1 2	58,050	0 1
227 9 2 1,611 14 0 1,365 5 6 1,550 6 6 958 5 11	5,777 11 2	1,876 15 6 229 15 0 207 0 0 165 0 0 197 1 0	30,989 15 8 4,036 11 4 3,461 6 5 3,832 1 8 2,846 14 0		4,036 11 4 3,461 6 5 3,832 1 8 2,846 14 0		30,989 15 8	Ξ	30,989 15 8 4,036 11 4 3,461 6 5 3,832 1 8 2,846 14 0	44,763 52,925 36,714 73,236 58,142	0 11 0 1 0 1 0 0 1 0 0 1
7,440 5 1	5,777 11 2	14,995 0 0	68,959 14 9		37,969 15 1	-	30,989 15 8		68,959 14 9	323,830	
1,003 3 3 1,198 4 0 694 6 6 1,900 1 9 338 8 6 837 4 3 448 3 6 7,553 14 9		173 0 0 161 6 9 137 12 2 95 0 0 290 0 0 107 4 0 135 14 0 147 0 0	2.761 10 9 2.859 10 9 2.170 0 5 5.350 14 6 3.409 6 11 1,402 12 6 2.130 6 6 1,494 11 11		2,761 10 9 2,859 10 9 2,170 0 5 3,865 1 9 3,696 611 1,692 12 6 2,130 6 6 1,475 3 6	2,085 12 9			2,761 10 9 2,859 10 9 2,170 0 5 5,859 14 6 3,099 6 11 1,402 12 6 2,130 6 6 1 494 11 11 21,879 10 3	46,704 55,136 17,277 16,467 84,132 22,297 34,365 29,491	0 0 1 0 0 1 0 0 1 0 0 1
100	i mer		it le							ethol	
2,066 11 6 1,885 12 6 2,180 10 3 3,056 7 0	=	387 8 0 607 14 0 232 0 0 200 0 0	5,080 10 11 5,338 7 5 4,769 2 0 4,596 7 0		5,080 10 11 5,138 7 5 4,769 2 0 4,996 7 0	200 0 0			5.080 10 11 5.336 7 5 4,769 2 0 4,996 7 0	95,849 212,027 85,812 47,489	0 0 10 0 0 0 0 0 10 0 1 8
9,189 9 3	-	1.427 6 0	20,184 11 4	***	19,964 11 4	200 0 0			20,184 11 4	441,177	
883 4 9 1,333 9 6 1,427 2 0 501 12 0		119 15 3 115 4 0 89 15 0 84 4 0	2,254 14 0 3,285 12 0 3,106 10 8 3,154 0 0		2,254 14 0 3,285 12 0 3,106 10 8 3,154 0 0		11911	1111	2,254 14 0 3,285 12 0 3,106 10 8 3,154 0 0	79,106 73,951 110,046 7.224	0 0 5 0 0 8 0 0 5 0 6 11
4.145 12 3		449 6 3	11,891 4 8		11,801 4 8			-	11,801 4 8	270,327	-
4,618 3 4	5,907 7 2	19,265 15 8	1,41,995 10 6	-	1,06,382 3 4	4,623 7 6	30,989 15 8	***	1,41,995 10 6	1,648,988	0 1 4
6,276 11 0	4-	3,672 8 7	37,723 1 10		37,723 1 10		***		37,723 1 10	-	-
0,894 14 4	5,937 7 2	22,938 8 3	1,79,718 12 4		1,44,105 5 2	4,623 7 6	30,989 15 8		1,79,718 12 4	1,648,988	0 1 9
-	96 5 3	1.548 9 8	18,443 11 10		1,305 0 0	100 10 6	17,038 1 4		18.443 11 10	68,951 3,052	0 4 3
0,894 14 4	6,033 12 5	24,487 1 11	1 98,162 8 2		1,45,410 5 2	4,724 2 0	48,028 1 0		1,98,162 8 2	1,720,991	0 1 10

case by the special staff is 0-1-4 one anna and four pies.

vaccinators in the flooded areas.
temporary inspectors and 38 vaccinators include 14 temporary vaccinators.
1 head or supervising vaccinator and 1 temporary vaccinators.
merary native supervising officers.

Statement No. III.—Showing particulars of Vaccination performed by Vaccinators attached to Municipalities, Dispensaries, etc., in the Province of Bengal during the year 1913-14.

		1000	of menicipalities diptu- etc., in each district to vaccinator is attached.	of vaccinators spalities dispen- the year.	persons vacci-	number of persons vacci-	No		F CASES	PRIMAR ED.	ULY .		ER OF		PERCES OF SUCC CASES WHICE RESC WERE S	ESSPUL IN THE LITS	1 EBCE OI UNKS CASES TOTAL	OWN
DISTR	ICT,		in the state of th	to manich	to o	h vac			Successf	ıl.						2		
			Number of n saries, etc., which a vace	Average nun attached to s saries, etc., d	Total number nated.	Average numb nated by esel	Total.	Under one year.	One year and under six years.	Total of all ages.	Unknown.	Total	Successful.	Unknown	Primary.	Be-vacelnation.	Primary.	Re-vaccination.
1			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Burdwan Birbhum Bankura Midnapoce Hooghly Howrah		111111	. 6 1 3 7 8	6 1 3 8 9 7	5,356 879 3,455 4,344 5,114 6,455	892 829 1,151 543 568 922	3,682 308 2,060 2,277 3,723 5,598	1,304 91 963 1,012 1,318 1,992	1,907 217 852 1,132 1,785 3,433	3,644 308 2,060 2,267 3,634 5,510	29 2 13 50	1,682 521 1,395 2,075 1,474 884	810 291 353 863 892 432	128 3 58 287 23 79	99'75 100' 99'51 90'87 97'95 90'35	12-12 16:18 26:40 48:26 61:47 53:66	78 '09 '25 '93	7.61 *37 4.16 13.83 1.36 8.13
24-Farganas Nadia Murshidabad Jessore Khulna			27 9 6 3 3	32 9 7 3 3	17,702 3,629 3,371 1,295 1,620	553 403 482 431 540	15,904 2,639 2,436 483 1,027	7,755 1,157 801 173 428	7,679 1,374 1,433 281 412	15,776 2,645 2,315 482 1,011	14 13 60 6	1,917 971 932 812 593	820 295 229 369 401	1 310 72 56 18	99°96 90°96 96 62 99°79 99°03	42°79 44°63 26°62 48°81 79°74	100 149 2144 	105 31-92 7-72 6-89 3-03
Rajshahi Dioajpur Jalpaiguri Darjoeling Rangpur Bogra Pabna Malda	11111111111	111111111	1 1 1 2 1 2 2 2	2 1 1 2 2 2 2 2 3	2,154 733 819 2,448 1,378 1,292 1,559 874	1,077 733 819 1,329 689 601 794 291	959 285 377 1,078 571 652 1,133 765	382 76 145 520 124 246 626 523	\$47 160 150 304 370 370 436 185	948 257 358 1,012, 539 629 1,102 787	4 8 11 61 29 17 18 1	1,195 448 443 1,580 867 553 457 129	469 292 220 836 241 190 211 49	134 36 56 161 140 65 64 21	99'26 92'77 97'81 99'51 99'05 98'83 99'06	44°30 70°87 56°26 37°06 36°13 38°93 53°69 45°37	'41 2'81 2'91 5'65 5'08 2'60 1'58 '13	11°21 8°03 11°73 10°18 17°34 11°73 14°00 16°27
Dacca Mymensingh Faridpur Bakarganj	=		9 8 9 9 6	5 8 8 5	7,770 5,376 1,748 3,211	1,554 672 874 642	3,800 3,176 1,089 5,194	701 964 143 245	2,423 1,792 745 680	3,241 3,091 1,083 1,993	186 37 6 229	4,161 2,200 659 921	1,185 1,162 281 439	532 118 133 160	98°68 98°47 100° 96°51	32°65 55'81 53'42 57'68	4'89 1'16 '55 9'98	12°78 5'36 20°18 17°37
Chittagong Noakhali Tippera	Ξ		2 1 3	2 1 3	1,323 764 1,866	661 764 622	902 328 2,596	125 59 819	614 191 590	837 326 1,506	46 2 25	421 447 789	218 200 162	73 54 66	97.78 100° 99°87	62°64 50°88 72°64	5*00 *61 2*38	17:34 12:08 22:63
т	otal	***	112	129	86,638	671	59,157	22,704	29,964	57,551	882	27,966	11,600	2,844	98'41	46'17	1'49	10-17
Vaccination by Railway		med			3,862		2,259	370	825	2,088	70	1,603	964	271	95*38	79-97	2.00	16:00
Grand T	otal		112	129	10,500	761	61,416	23,074	30,789	59,439	952	29,569	12,564	3,115	98:30	47'49	1.22	10'58

In Jalis and Raliways operations were performed by their medical men.

COMPARATIVE STATEMENT NO. IV—Showing the number of Persons primarily vaccinated, and the number of those Persons who were successfully vaccinated in each of the undermentioned official years.

	_			123						PERSONS PRIMABILIT VACCINATED.	DEARTH VA	CCINATED.									
		1904-1905.		1906-1906.		1905-1907.	100.	1907-1908		1108-1109,	909.	1909-1910.	910.	1910-1911.	911.	1911-1912.	912	1912-1913.	913.	1913-1914.	914.
EXTABLISH MENT.	File	Total Number successfully vaccinated.	fully Total ated.		Number saccessfully vaccinated.	Total st	Number successfully vaxduated.	Tot-1 number.	Number successfully vpodnated.	Total sumber.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total s	Number successfully raccinated.	Total number.	Number success- fully vaccin- ated.	Total anmiber.	Number success- fully vaccin- ated.	Total number.	Number success- fully vaccin- aled.
1					10	9	1	100		10	п	=======================================	2	14	116	16	n	18	19	30	=
	-		-	-	-																
Government	1	19,166	18,978	20,701	20,577	10,294	120,011	18,835	18,669	5,850	9,69,6	6,798	6,487	6,304	5,900	6,907	4,986	6,618	6,481	7,085	7,082
Municipal	1	73,387 61	96 000'69	96,136	80,178	86,438	82,314	81,016	78,412	190'06	87,445	82,357	78,824	84,336	76,752	89,495	85,122	87,425	85,263	84,450	82,601
Local Fund	1	3,685	3,407	483	477	2,368	2,316	2,143	2,128	12,275	1,315	15,008	14,167	12,734	12,651	10,989	10,816	12,079	12,078	14,677	14,345
Dispensaries	1	199	766	2,849	2,523	2,985	2,338	1,551	1,440	1,313	1.172	1,294	1,179	213	183	1,428	1,247	2,777	2,535	2,788	2,632
Work done by ex-Inculator	1	1,637,213	1,510,704 1.613	1.613,655 1,	1,586,477	1,487,417	1,463,063	1,522,495	1,504,682	1,622,835	1,397,818	1,601,179	1,542,850	1,593,331	1,500,951	1,625,173 1,630,184 1,665,033 1,636,325 1,457,815	1,620,184	1,665,033	1,636,325		1,438,277
Total	1 2	1,634,250 1,600	1,602,915	1,713,814	1,700,231	_	1,569,053	1,636,010	1,616,351	1,735,334	1,761,977	1,706,666	1,644,327	1,696,907	1,636,407	1,636,407 1,801,708 1,722,435 1,774,632 1,742,683 1,806,845 1,544,697	1,712,435	1774,632	1,742,683	1,566,845	1,544,697

Statement No. V-Showing particulars of Vaccination verified by Inspecting Officers during the year 1913-14.

	PERCENTAGE OF SUCCESS MEPORTED BY VACCINATORS.	1	Ho-vacein-	8		1 1110111111111111111111111111111111111	97.19
	PRINCENTAGE OF SUCCESS MEPORTED BY VACCINATORS		Primary.	n	51-58 51-58 51-58 51-58 51-58 51-58 51-58	6179 6179 6179 6179 6179 6179 6179 6179	27.56
	27.5	ectors.	Re-vacela- ation.	22	26.25 26.25	1272 1272 1272 1272 1272 1272 1272 1272	11.09
PUL TO	SUPERINTENDENTS OR INSPECTING PPICERS,	Sub-Impectors.	Primary	8	17.00 12.00 12.00 12.00 11.00 11.00 10.00	25.000 25	98-38
SUCCESSFUL.	NATIVE SUPERINTENDS OR OTHER INPECTING OPPICERS.	- 6	Re-vaceln- ation-	12	200 200 200 200 200 200 200 200 200 200	######################################	13.40
CASES FOUND SUCCES NUMBER INSP. OTED	BY NATH	District Impectors.	Primery.	36	85-28 117-20 117	#1790 #1790	98-36
CASES	RX.	Prost	He-vaccin- ation.	22	25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1	100 24171512 20 20 20 20 20 20 20 20 20 20 20 20 20	17.0
PERCENTAGE OF TOTAL	T DRPUTY SANITARY COMMISSIONERS OR CIVIL SURGEORS,	Civil Surgeens	· Cremin.s	11	100 100 100 100 100 100 100 100 100 100	2011 2011 2011 2011 2011 2012 2013 2013	28.00
ROBN	DEPUT MMISSI IVIL 8	2000	Re-vacefu- ation,	=======================================	1111111 1 1	111111111111111111111111111111111111111	100-
PE	Pr O	Departy Sanitary Commis- sioners.	Primary	92	\$ 11111 1 -1	100 100 100 100 100 100 100 100 100 100	16-09
8	DESTR	pectors,	Re-rects.	2	221222 : 62 221222 : 62	19 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20.12
TOTAL NUMBER	NATIVE SUPERINTENDESTS OR OTHER INPECTING OFFICERS.	Sub-Impectors.	Princery.	18	51755 60718 60718 6719 6718 6719 1140 1140 1140 1140 1140 1140 1140 11	100 00 00 00 00 00 00 00 00 00 00 00 00	45.18
	VESUPE OFFIC	let tors.	He-vacela- ation,	13	12 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	######################################	27.5
INSPECTION TO VACCINATED,	BY NATI	District Inspectors.	Primary	16	88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000 2000 2000 2000 2000 2000 2000 200	34.34
VAOC VAOC	AHY OR 18.	Surgious	He-vaccin-	20	2017 2017 2017 2017 2017 2017 2017 2017	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.01
PERCHNTAGE OF	BY DEPUTY SANITARY COMMISSIONERS OR CIVIL SUBGROSS.	Civil 8º	Primary.	М	1752 EF 1 8	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.01
BORN	DEPUT OWNES CIVIL	Digital at	He-vaccin- arion.	13	1111111 1 1	111111111111111111111111111111111111111	10.
PE	M.	Departy Sanitary Commis- sioners.	Primary.	12	B 11111 1 1	18425 12 18 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.30
	EXTS	pertors	-nice-vaccin- anolia	п	11 12 12 12 12 12 12 12 12 12 12 12 12 1	US # 12 12 12 12 12 12 12 12 12 12 12 12 12	87 108
	BY NATIVE SUPERINTENDE OR OTHER INSPECTING OPPICERS.	Sub-Inspectors.	Primary	10	84,884 28,900 69,900 11,004 15,857 21,155 21,155 47,839 41,845	125 125 125 125 125 125 125 125 125 125	720,554
OTED-	OFFICE OFFICE		-nloorvacin- andia		31352 127 12	5"112 12 12 12 12 12 12 12 12 12 12 12 12	60,180
TOTAL NUMBER INSPECTED	BY NAT	District Impectors.	Trimery.	×	11,793 17,700 17,700 63,911 7,704 19,119 18,670 18,486	2.1.2 2.4.4	411,280
AL NUM	BY	Decisie.	Me-vaccin- noise	-	2812 2812 2812 2812 2812 2812 2812 2812	1885352535555 - \$ 1853 - 5 1	12,487
TOL	BY DEPUTY SAKITARY COMMISSIONERS OR CIVIL SURGEOUS.	Civil Sargeons.	Trimery.		25,00 25,00	1106 2446 2466 2466 2466 2466 2466 2466 24	47,291
	DEPUT OMNESS TIVIL B	2544	He-vaccin- acton.	10	1111111 1 1	111111111111111111111111111111111111111	2
	in the second	Deputy Sanitary Commis- sioners.	Pelmery.	-	B	12222 22 12 12 12 12 12 11	50,163
	A.L. R. OF TED.		-noohe	10	2,184 2,484 1,814 1,018 1,018 260 2,160 2,160	48.82 1.138.82 1.138.82 1.058.01 1.058.	260,792
	TOTAL NUMBER OF PERSONS VACCINATED.		Primary.	41	25,742 26,742 104,053 104,053 10,416 26,763 27,767	25,397 25,397 25,397 25,397 25,398 25,498 25,498 25,498 26	1,566,845 2
		DISTRICT.		1	Burdwan Hirbhum Eashturs Hoorthy Secanjore Howrah	Calcutta wata karata karat	_

In Jalpaigari 1,887 operations were performed in the tea gardens—details of which could not be had, hence they have been excluded from this statement.

STATEMENT No. VI-Showing, side by side, the ratios per 1,000 of population, of deaths from Small-pox and the number of successful Vaccinations during the ten years ending 1913-14.

1	-	indespons to re- emblem-	Mumb's boav	11	36,740	44.609	38,601	27.069	44,763	39,738	59,554	48,121	17,805	84,912	35,838	100,277	216,280	49,921	80,161	111,764	7,234	3,062	720,301
	1913-14.	-xod-		92	\$ 9	50:	==	7.5	100	9	2000	55	100	10	289	100	10.	40.	26	i in	under istra-	tion,	11 1.
ı	100	mont attest to			25	12:	100	25	1981	*	500	111	100	100	1 1 2	38	7	114	55	193	-	II E	983
١	1913-13.	er of shocessful	sdam?	19	4:	38.	44.2	78,06N	2,22	12	31,3	49,6	8.5	. 69.	35.1	113.1	200.	116.3	800	131,3	2	2,270	1,835,690
١	13	ment scheed to		25	35	F	12	07.00	-10	9	100	10.	-01	20.	23	77	9	10.	10.	29	registra-	Hop.	7
	12.	or of saccostial		11	00,238	46.818	33,248	28,187 71,748	26,961	30,447	62,916	68,862	20,425	67,898	37,967	31,409	201,744	127,943	75.837	110,668	0,399	1,725	1,813,490
	1911-12	of deaths from		2	7.5	5005	, p	10 p	400	11:	400	20	11.	21	3.5	P :	79.	93	80	17.	3	-	*
1	1910-11.	or of successful		2	36,164	46,137	27.179	11,49	15,61	49,557	45,006	51,975	21,129	67,687	51,043	107.511	179,250	101,416	28,774	25,134	6,000	1,076	1,715,020
	191	mod white home 2014		=	27	7:	100	99	90	8	200.	22.5	950	10.0	8.8	9.7	200	400	10.	400	1	1	şi
	909-10.	tabelone, or successful		22	61,739	45.318	37.782	28,478	27.066	45.812	41,344	92,294	19,076	Dog.988	20,100	98,721	171,114	144,738	61,926	80,939	6.577	2,346	1,811,088
	130	mort satisfaction from		22	98	77	7	e F	1719	27	121	120	7. 10	27.0	1	22	9.9	7	7 7	9	:		35
1	908-00.	Indervous to se anottent	quin N	=	20,659	29,901	13,730	23,425 82,250	45,383	48,365	41.944	24,231	17,697	84,115	47,674	97,843	181,783	106,008	63,320	88,080	97111	2,184	1,824,363
I	130	mod setted to xog-i		10	86	87	2	1.00	27.5	9	13	27	42	147	17	191.	01.	7	D.	12	1	:	9.
-	1907-0%	inference of successful			09,340	008.00	33,791	75,965	25,042	47,481	43,316	29,953	17,394	11,320	51,182	31,352	136,267	132,134	60,346	31,445	200	2,366	1,765,921
١	1001	mort school to xoq-i		×	171	F.	i.	79	22	7	99	111	200	51.	n pt	120	21	61.	0:	7	11.	1	35
	1906-07.	to be secondarial to the seconda	dam Z boev	-	\$1,210	16,180	34,263	74,693	29,394	64,300	37.463	107,55	29,137	27,700	47,276	79,548	145,931	113,538	99,732	73,434	2,492	3,347	1,639,630
	130	of deaths from .xoq-i-	oltaff liems	9	1719	7:	12.	##	200	3	S F	11.00	22	21	18	01.	200	100	1.10	98	ı	1	27.
	1905-06.	fer of successful inclinations.	don's boev		31,423	47,921	30,789	31,693	21,003	12,961	31,970	43,792	27,684	70,834	46,701	58,134	166,830	116,892	130,419	67,860	9,731	-	1,773,926
1	1000	most salked to -xeq-i			FF	9:	- 8	22	100	7	7 7	# I	50	10,	01.	1001	91.	91.	200	i p	1		91.
	1901-05.	interventing of successful	Numb boar	**	52,111	46,645	28,734	76,301	21,346	41,748	37,386	41.374	18,287	64,629	42,900	108,789	161,386	127,154	18,418	77,198	2,000	1	1,619,366
-	1304	most satisate to most satisfaction.		**	24	7.	50	20	7.	11.	000	FF	77	11.	: [2]	200	===	95	20.	.10		,	-18
-	- 121)				11	1	11	11	11	-	1:	11	11	-	11	11	11	1	11	1	1	1	I
-			8		11			11	11			11	11		11	1 1	: 1		1	1	1	1	Total
	11/4	10 10	4		1:			11	::	:	11	11	11	1		11	11	1	11	1		1	F
1		DISTRICT		1	11	11	11	11	11		11	1.1	11	1	11	11	11		11	13			
		Dus			11	11	1	11	11	:	11	11	11	11	1	11	1;		::	The Street	-	ination	
					Bardwan	Bankura	Hooghly	24-Parganas	Nadla	Murshidshad	Khulaa	Direction	Darjeeling	Rangpur	Pabna	Dacca	Mymen mgh	Bakargani	Neakhali	Tippers	Was a state of the	Ballway vaccination	

Statement No. VII—Showing the protection afforded to Infants in each Town in the Province of Bengal during the year 1913-14.

		Marin S			
District.	Town.	Number of births dur- ing the year.	Number of deaths amongst children under 1 year dering the year.	Number of successful vaccinations on child- ren under 1 year dur- ing the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
-	2	3	4	5	6
1	•				
BURDWAN	Burdwan Kalna Katwa Dainhat Raniganj Asansol	198 113 85 93 350 184	22 40 22 35 57 16	306 178 236 216 298 70	1st July 1883. 1st ,, ,, 14th September 1910.
	Total	1,023	192	1,304	
BIRBHUM	Suri	111	24	91	1st July 1881.
Bankura {	Bankura Vishnupur Sonamukhi	516 491 323	92 79 70	375 359 231	1st ,, 1883. 1st ,, ,, 6th June 1892.
	Total	1,330	241	965	
MIDNAPORE {	Midnapore Ghatal Kharar Chandrakona Ramjibanpur Khirpai Tamluk	538 236 187 158 209 108 244	115 62 44 41 42 22 25	312 212 118 66 130 63 111	1st July 1883. 1st , , , , , , , , , , , , , , , , , , ,
	Total	1,680	351	1,012	
Hooghly {	Hooghly and Chinsura. Bansberia Arambagh Serampore Uttarpara Kotrung Baidyabati Bhadreswar	646 70 102 957 124 142 393 257	187 29 22 213 22 19 91 67	263 35 79 441 95 90 185 130	1st September 1881. 1st July 1883. 11th February 1889. 1st March 1883. 1st April " 1st July " 1st " " 1st " "
	Total	2,691	650	1,318	
Howrah {	Howrah Bally	3,851 376	1,107 85	1,397 595	1st April 1882. 1st October 1884.
	Total	4,227	1,192	1,992	
	Total of the Burdwan Division.	11,062	2,650	6,682	
24-Par- ganas.	Cossipore-Chit- pur. Manicktala South Suburban Tollygunge	856 702 791 334	296 364 95 31	830 810 949 370	1st October 1883. 1st " " 1st " " Ditto. (It formerly formed a part of the South Suburban Municipality).

District.	Town.	Number of births dur- ring the year.	Number of deaths amongst children under 1 year during the year.	Number of successful vaccinations on child- ren under 1 year during the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
1	2 -	3		5	6
the case	Garden Reach	769	177	819	1st October 1883. (It formerly formed a part of the South Suburban Munici- pality.)
88881994	Budge Budge Baranagar Kamarhati	258 429 311	28 90 67	255 394 316	18th February 1902. 1st October 1883. 1st ,, (It formerly formed a part of the Barana-
B foores ve-blaces of charges and charges	Rajpur Baruipur Jaynagar North Dum-	278 86 131 154	46 10 26 31	95 134 151 62	gar Municipality.) 1st October 1883. 1st " " 1st " " 1st " "
Contractor	Dum. South Dum-	206	49	203	lst " "
-	Dum. South Barrack- pore, includ- ing Barrack-	192	34	253	1st " "
24-PARGA-	pore Cantonment. Panihati	186	39	148	lst " " (It formerly formed a part of the South
concld.	North Barrack-	224	68	190	Barrackpore Municipality.) 1st October 1883.
	pore. Titagarh	194	55	79	lst " " (It formerly formed a part of the South Barrackpore Muni-
Lest, Jury 1984.	Garulia	123	25	199	cipality.) Ist October 1883. (It formerly formed a part of the North Barrackpore Muni- cipality.)
7988 guar	Naihati Halisahar	236 236	28 54	222 147	1st October 1883. 1st ,, ,, They formerly formed parts of the Naihati
Titel vous	Bhatpara Barasat Gobardanga Basirhat	459 187 90 566	98 32 28 64	250 185 43 390	Municipality. 1st October 1883. 1st ", ", 1st ", ",
a cl = Distry	Baduria Taki	285 137	28 26	212 49	1st ,, ,,
	Total	8,420	1,889	7,755	Andrew Amond
CALCUTTA	Calcutta	18,111	5,035	9,708	1880.
NADIA {	Krishnagar Nadia Ranaghat Birnagar	387 173 165 45	59 53 33 23	219 106 190 • 40	1st October 1883. 1st ,, ,, 1st ,, ,, 1st ,, ,,

DISTRICT.	Town.	Number of birth during the year.	Number of deaths amongst "children ander 1 year during the year.	Number of successful vaccination on child- ren under 1 year during the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
1	2	3	- 4	5 .	6
Nadia— concld.	Santipur Chakdaha Kushtia Kumarkhali Meherpore	728 103 94 57 98	150 19 20 18 21	309 66 56 29 142	1st October 1883. 28th January 1887. 1st October 1883. 1st ","
	Total	1,850	396	1.157	ALTERNATION OF THE PARTY OF THE
Murshida- Bad.	Berhampore Murshidabad Azimganj	560 369 276	112 105 70	317 59 58	1st October 1883. 1st ", ", (It formerly formed a part of the Murshidabad Municipality.)
	Kandi Jangipur Dhuliyan	423 304 297	82 57 47	235 57 75	1st October 1883. 1st "" 26th June 1910.
	Total	2,229	473	801	
Jessore {	Jessore Kotchandpur Maheshpur	56 223 55	13 37 5	43. 85 45	1st October 1883. 1st February 1884. 1st October 1883.
	Total	334	55	173	- CONTRACTOR
KHULNA {	Khulna Satkhira Debhatta	181 136 140	22 17 30	143 208 87	1st July 1887. 7th ,, 1883. 1st October 1883.
	Total	457	69	438	
	Total of the Presidency	31,401	7,917	20,032	
Rajshahi {	Division. Rampur Boalia Nator	486 134	83 36	332 50	1st June 1881. 1st January 1881.
	Total	620	121	382	end of
DINAJPUR	Dinajpur	180	32	76	1st January 1887.
Jalpaiguri	Jalpøiguri	252	40	144	1st ,, ,,
DARJEELING {	Darjeeling Kurseong	377 147	77 45	231 289	1st September 1884. 1st January 1887.
	Total	524	122	520	The state of the s
RANGPUR	Rangpur	196	- 44	124	1st July 1881.
Bogra {	Bogra Sherpur	146 50	6	169 77	1st January 1882. 1st October 1884.
	Total	196	-39	246	THE RESERVE OF THE PARTY OF THE
PABNA {	Pabna Sirajganj	195 378	52 52	210 416	1st February 1882. 1st January 1887.
	Total	573	75	626	Heatel /

9-					the same and the same and the
District.	Town.	Number of births dur- ing the year.	Number of deaths amongst children under I year during the year.	Number of successful vaccinations on child- ren under 1 year dur- ing the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
MALDA {	English Bazar Malda Nawabganj	305 75 393	60 14 57	178 44 301	1st March 1883. 1st April 1887. 12th May 1904.
	Total	773	131	523	
	Total of Raj- shahi Division	3,314	605	2,641	
DACCA {	Dacca Narainganj	2,773 684	717 172	595 104	1st July 1887. Ditto.
	Total	3,457	889	699	
M Y M E N- SINGH.	Mymensingh Muktagacha Netrokona Jamalpur Sherpur Kishorganj Bajitpur Tangail	213 133 323 724 492 284 263 337	29 24 49 97 118 70 35 121	37 54 128 80 276 241 43 105	1st October 1887. Ditto. 20th January 1890. 1st October 1887. Ditto. Ditto. Ditto. 19th February 1890.
	Total	2,769	543	964	
FARIDPUR {	Faridpur Madaripur	272 443	86 80	73 70	1st October 1887. Ditto.
	Total	715	166	143	
Bakarganj {	Barisal Jhalakati Nalchiti Pirojpur Patuakhali	261 51 31 355 145	51 12 12 31 31 24	74 14 6 117 34	1st October 1887. Ditto. Ditto. 1st January 1890. 25th January 1894.
	Total	843	130	245	
	Total of Dacca Division.	7,784	1,728	2,051	
CHITTAGONG {	Chittagong Cox's Bazar	502 89	105 24	41 83	1st April 1887. 14th November 1892.
	Total	591	129	124	
TIPPERA {	Comilla Brahmanbaria Chandpur	276 600 240	29 103 64	180 502 137	1st April 1887. Ditto. 22nd July 1898.
	Total	1,116	196	819	
NOAKHALI	Sudharam	149	20	59	1st April 1887.
	Total of Chitta- gong Division.	1,856	345	1,002	
	Total for the Province.	55,417	13,244	32,408	

					1
the prince of the					
			TATE .	- I delle	
	-		101.2		
	-			and the same	
				. Caparline	
	-			and the same	
				. Caparline	
				an deportment	
	60 641			Material Co.	
			217	an deportment	
Area policina -1			217	an desired	
Area policina of annihila of a	60 641			an deport in the last of the l	
Area policina -1			217	an desired	
Area policina of annihila of a		100 mm	100 mm	The Control of the Co	
Area policina of annihila of a			217	an deport in the last of the l	
Area policina of annihila of a	## ## ## ## ## ## ## ## ## ## ## ## ##	100 M	100 mm	Land Land	
Area policina of annihila of a		100 mm	100 mm	Land Land	- land
Area policina of annihila of a	## ## ## ## ## ## ## ## ## ## ## ## ##	100 M	100 mm	Land Land	- land
	101 101 101 101 101 101 101 101 101 101	100 M	100 mm	Land Land	- land
	101 101 101 101 101 101 101 101 101 101	10 Mars 1	100 100 100 100 100 100 100 100 100 100	Land Land	and an analysis
	101 101 101 101 101 101 101 101 101 101	10 10 10 10 10 10 10 10 10 10 10 10 10 1	100 mm 10	Land Land	- land
Area policina of annihila of a	101 101 101 101 101 101 101 101 101 101	10 Mars 1	100 100 100 100 100 100 100 100 100 100	A Continued Cont	and an analysis
	101 101 101 101 101 101 101 101 101 101	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Land Land To American Land Land Land Land Land Land Land La	and an analysis
Area policina of anti-	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	100 mm 10	Land Land	and an analysis
Area policina of annie of anni	101 101 101 101 101 101 101 101 101 101	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Total in la T	- Commenced
Area policina of annihitation	10 mm 1 m	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Total in la T	- Commenced
Area policina of annual distriction of the second distriction of the s	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Land Land To Land Land Land Land Land Land Land Land	Oxonomia
Area policina of annihitation	10 mm 1 m	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Land Land To American Land Land Land Land Land Land Land La	Oxonomia
Area policina of annual distriction of the second distriction of the s	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Land Land To Land Land Land Land Land Land Land Land	Oxonomia
Area policina of annual distriction of the second distriction of the s	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101 AND	100 100 100 100 100 100 100 100 100 100	The State of	Oxonomia
Area policina of annual distriction of the second distriction of the s	101 101 101 101 101 101 101 101 101 101	100 AND 100 AN	100 100 100 100 100 100 100 100 100 100	Land Land To A Land Land Land Land Land Land Land Land	Oxonomia
Sections of any and any	101 101 101 101 101 101 101 101 101 101	101 AND	100 100 100 100 100 100 100 100 100 100	The State of	Oxonomial
Area policina of annual distriction of the second distriction of the s	101 101 101 101 101 101 101 101 101 101	101 AND	100 100 100 100 100 100 100 100 100 100	The State of	ASSESSA
Sections of any and any	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 100 100 100 100 100 100 100 100 100	217 107 107 108 108 108 108 108 108 108 108 108 108	The Continued of the Co	ASSESSA
Sections of any and any	101 101 101 101 101 101 101 101 101 101	101 AND	217 107 107 108 108 108 108 108 108 108 108 108 108	The Continued of the Co	Oxonomial
Sections of any and any	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 100 100 100 100 100 100 100 100 100	217 107 107 108 108 108 108 108 108 108 108 108 108	The Continued of the Co	ASSESSA
Sections of any and any	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 101 101 101 101 101 101 101 101 101	207 103 144 222 148 148 148 148 148 148 148 148 148 148	Total in la Total and the same of the same	ASSESSA
Sections of any and any	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 101 101 101 101 101 101 101 101 101	207 103 144 222 148 148 148 148 148 148 148 148 148 148	The state of the s	ASSESSA
Sections of any and any	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 101 101 101 101 101 101 101 101 101	207 103 144 222 148 148 148 148 148 148 148 148 148 148	The Continued of the Co	ASSESSA
Sections of any and any	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 101 101 101 101 101 101 101 101 101	207 103 144 222 148 148 148 148 148 148 148 148 148 148	The state of the s	ASSESSA

Provincial Statement A—Showing the degree of protection afforded to infants during the year 1913-14.

		and the same	10.11				and and
	tural population among which vaccinations were performed.	Per for the	ate	under to for	ully	97.8	が見り
	og a	trasu.	infant	g o	3	of persons s raccinated population column 5.	1-8
	# H	2 4 4 4		a bo	-	Parle in	and
	ariju	4456	20.7	Table Table		24 B B	and de
DISTRICT.	34	the Mark	ty among one year.	Surviving population ur one year available vaccination.		A 0 0 0	of persons vaccinated population
	ed.	E S I E S	8	Lion Lion	2 2	9.00	2.76
	48	Production 193	200	op of the	+ 8	54 a	是自 #
	Roral which perfo	100 a a a	t d	F 8 S	Number suc vaccinated.	9000	Preportion cendully 1,000 of 1912-13.
	B > Y	Estimated birth at 34-77 ps. 1,000 of population, bein the actual birthears of the Province during the year 1913.	Mortality under one	4 2 20	N F	Prepartion of constuly 1,000 of shown in co	Ferm
1	2	3	4	5	6	7	8
	000 000	00.00		25.005	00.005	004.00	
Malda	962,765	33,475	7,590	25,885	22,385	864.78	762.63
Darjeeling	240,971	8,379	1,976	6,403	5,075	792.70	611.95
Khulna	1,337,679	46,508	10,733	35,775	27,748	775.62	553.23
Nadia	1,521,928	52,917	13,856	39,061	29,448	753.89	785.01
Jessore	1,737,086	60,398	10.627	49,771	33,347	67 '02	783.16
Burdwap	1,444,185	50,214	11,158	39,056	2 ,311	648'07	733'02
Rajshahi	1,448,930	50,379	13,334	37,045	23,771	641.67	588.08
Noakhali	1,295,081	45,030	8,153	36,877	23,266	630.92	869.65
Murstidabad	1,288,791	11 011	10 200	32,413	19,744	609:14	771'14
The state of the s		44,811	12,398			576.53	
Midnapore	2.738,301	95,211	17,895	77,316 69,686	44,575 39,431	565.84	668 09 475:34
Tipperah	2,372,424	82,489	12,803	100000000000000000000000000000000000000		700.000000	
Bankura	1,081,464	37,602	8,959	28,643	15,722	548-89	365.11
Hooghly	938,615	32,636	6,354	26,282	13,617	518-11	669:03
Birbbum	926,342	32,200	8,071	24,138	11,799	488-77	483.56
24-Parganas	1,885,590	65,562	10,374	55,188	26,286	476.29	580.73
Dinajpur	1,671,918	58,133	15,780	42 353	19,480	459-93	346.31
Jalpaiguri	890,895	30,976	7,855	23,121	9,969	431.16	421.94
Danaman	2,368,901	82,367	18,963	63,404	24,438	385 38	313 37
Faridpur	2,089,710	72,659	16,616	56,043	20,937	373.59	547:39
AV.	4,404,353	153,139	25,728	127,411	46,946	368:46	304 02
Mymensingh	1,101,000	100,100	20,120	121,111	10,010	000 10	00102
Howrah	741,719	25,790	5,026	20,764	7,582	: 65:15	422-28
Bogra	970,366	33,740	5,585	28,155	10,013	355-63	281.48
Chittagong Hill Tracts.	153,879	5,350	1,163	4,187	1,468	334-62	382-18
Pabna	1,384,535	48,140	11,046	37,094	10,682	287.97	393.60
Chittagong	1,475,289	51,296	10.268	41.028	10,264	250:16	300:38
D	2,823,975	98,190	20,199	77,991	19,395	248.68	280.99
Daharana 2	2,380,293	82,763	21.042	61,721	5,162	83.63	231.66
Dakarganj	2,000,200	- 02,103	21,042	01,121	- 0,102	30 00	
Total of Rural Circle	42,575,875	1,480,363	313,552	1,166,811	547,861	469 54	488-74
Calcutta	896,067	31,156	5,035	26,121	9,708	371.65	320.45
Mufassal Munici-	2,011,184	69,929	8,209	61,720	22,700)	207.05
palities.	1				950	373.78	397:35
Railways			***		370	,	
GRAND TOTAL	45,483,126	1,581,448	326,796	1,254,652	580,639	462.78	480.79
Sales and a		1 1 1 1 1 1	1	Was grandy			-

Registration of births and deaths is not carried on here. The number of deaths among infants has been calculated at the rate of infant mort lity (709-59) obtaining in this Province.

PROVINCIAL STATEMENT B.-Showing the different kinds of tymph used and their rates of success during the year 1913-14.

1	08.	tul cesse.	=	1111111		111111	,	1118		1111	-	1111	1	1	26.42
	VACCINATION.	Unknown.	8	11,1111	1	111111	1	11121111	22	1111	1	1111	1	ı	22
		Unancoust.	2	1111111	:	111111	1	11181111	25.0	1111	1	111	1	1	25
	Апж-то-апж	Succeedul	25	1111111	:	111111	1	11181111	113	1111	1	1111	1	1	413
	Anx	Total.	13	1111111	:	111111	1	11181111	111	1111	1	1111	1	:	12
		of success-	8	5247527 52475327	:	4474 4474 3574 3773 5170 7071	2	224 244 244 244 244 244 244 244 244 244	1	80798 88790 68740 51707	-	25-17 72-10 71-61 45-17	-	60-13	61.19
	LYMPH.	Unknown.	100	E.se 125	1,345	1202	4,042	発見を対抗に変や	1,363	1,238 1,396 1,000	3,385	136 500 1	1,734	122	12,100
TIONS.	LANGLINE LY	Urancossa. ful.	7	000 1000 1000 1000 1000 1000 1000 1000	21.336	15.00 15.00	23,906	845 845 845 845 845 845 845 845 845 845	10,221	10,892 9,784 3,279 878	23.823	4,007 1,084 222	11,087	308	111708
RE-VACCINATIONS	LANG	-функазонд	23	5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	29,431	1,014 19,056 498 498 249 768	22,798	866 286 286 286 286 286 286 286 286 286	18,990	8,402 47.374 5,512 1,169	62 457	18,266 14,133 3,494 192	31,784	196	166,123
RE-V		-fetoT	21	2.184 1.814 1.018 900 900	\$2,112	1,286 1,386 1,886 1,886 1,886 1,886	20,740	7,748 10,811 1,281 2,020 3,184 862 1,836	30,579	20,512 58,534 8,390 1,389	89,655	20,482 18,818 4,819 424	44,605	1,600	162,930
		Percentage of specime- int cases.	5	1112111	1	111111	1	11111111		1111	-	1111	=	1	30.08
	CALF.	лионил.		1118111	265	111111	1	11111111	-	1111	1	1111	1	1	2
	DIRECT PROM CALP	-services U	2	1118111	5,233	111111	1	11111111	10	1111	-	1111	-	-	5,533
	DIREC	-indemonals	87	1115111	9,718	111111	1	1111 111	1	1111	1	im	1	1	8,718
		.latoT	11	1115	11,216	111111	1	11111111	1	1111	1	1111	-		11,216
	×	egatne-cell resonatio reasonatio	16	1111111	1	111111	1	11181111	1	1111	1	1111	1	,	16-96
	VACCINATIOS.	чамоваян Д	2	1111111	1	111111		11121111	81	1111	1	1111	1	1	2
	N VACC	Unsnovess- ful.	11	1111111	1	111111	1	111 :111	04	1111	-	1111		-	01
	Апм-то-апм	Julescools	=	1111111	1	111111	1	11121111	1,548	1111	1	1111	i	1	1,548
	AB	Tetal	128	1111111	1	111111	-	11112	1,681	1111	1	1111		-	1,631
		Percentage of success- ful cases.	=	20-75 20-75 20-75 20-75 20-75 20-75 20-75 20-75		27.74 27.74 77.74 77.74 77.74		20 10 10 10 10 10 10 10 10 10 10 10 10 10	-	42-78 20-78 20-78	ī	27.45 27.45 27.65 27.65	1	92.43	12.50
PRIMARY VACCINATION	YMPH.	Unknown	92	おりて意识した	22	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	893	221857183	1,260	1,000 1,000 270 270	2.720	8850	1,002	20	6,330
X VAOO	LANOLINE LYMPH.	Unspecies.		27 42 28 178 178 178 178 178 178 178 178 178 17	3,554	817.1 88.1 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90	2,563	1881833	8,124	2,560 2,560 783 954	996,8	15051	2,924	101	18,832
PRIMAR	WITH LAN	Anheavond	×	25,704 12,682 41,086 84,738 11,961 18,644	272,848	25,000 20,000 20,000 20,000 20,000 20,000	325,381	48,746 18,911 18,638 18,000 21,700 26,000 26,000	292,874	91,873 168,906 81,664 48,732	391 195	68,185 69,343 108,270 7,032	241,842	2,088	1,896,238
		JateT	1	25,841 25,760 44,000 18,169 18,891 26,881	276,737	75,413 26,302 20,545 20,430 73,934 20,430	328,837	43,647 49,969 11,043 14,609 12,639 21,639 21,639	197,93K	95.057 173,493 82,717 90,214	189,004	67,826 61,017 109,719 7,184	245.818	2,239	1.551,410
		Percentage of spoons ful cases	9	1 1 154 15 1		111111		11111111	1	1111		1111	-	1	97.69
	CALF.	-urensal	-	171"111	9	111111	1	1111111	1	1111	1	1111	1	1	0
	FROM	Unsuccess-		. 1115111	189	111111	1	Пини	1	1111	1	1111	-	1	2
	DIRECT PROM CALF	Jubeovalal	**	111818	20,662	111111	1	11111111	1	1111	1	1111	-	1	20,662
		JatoT	91	1 1 188 15 1	21,169	111111	1	11111111	1	1111	ı	1111	1	:	21,149
1		-		1111111	1	111111		11111111	1	1111	1	1112	1	1	Pro
	Distrators		-	Borlean Barkura Bankura Meleapur Hoghly Kerampet Howarah	Total	24-Parganas Calcutta Nadia Murshidabad Khulaa	Total	Rajshahi Dinajpur Jahajuri Jahajuri Jahajuri Darjechag Rasegra Pabus Pakus Pakus	- 20	Discon Mymensing — Parisher — Bakergani	Total	Chittagong Noakhali Tippera Chittagong Tracta	Total	Ballway	Total for the vince.

In Calcutta and in the Districts of the Rajabata, Dacca and Chittartong Divisions (except Darjeeling) all operations were performed with Giveerinized tymps.

B. S. Press-18-6.1914-639J-568-C. S. M.

GENERAL DEPARTMENT.

SANITATION.

CALCUTTA, THE 13TH AUGUST 1914.

RESOLUTION-No. 792 San.

READ-

The reports of the Sanitary Commissioner, the Sanitary Board and the Sanitary Engineer, Bengal, for the year 1913.

Read also-

The Triennial Report on Vaccination in Bengal for the years 1911-12 to 1913-14.

Major W. W. Clemesha, I.M.S., was in charge of the office of the Sanitary Commissioner, Bengal, for the whole of the year under review. Mr. G. B. Williams held the post of Sanitary Engineer except for the period from the 8th August to the 3rd October 1913 during which he was on privilege leave, and Mr. A. G. Maffin, Assistant Sanitary Engineer, officiated.

2. Climatic conditions.—The rainfall in February was above the average, while in March and April it was generally deficient. May was very wet, especially in Eastern Bengal. The monsoon rains commenced on the 12th of June and the rainfall was on the whole well distributed. In the early part of August heavy rain fell in Bihar and Chota Nagpur, causing disastrous floods in the Damodar river which submerged large tracts in the Howrah, Hooghly and Burdwan districts. The Contai, Ghatal and Tamluk subdivisions and parts of Bankura and Birbhum also suffered severely from inundation. Contrary to expectation these floods did not give rise to outbreaks of cholera and malaria, but appear to have had a salutary effect in flushing and cleansing insanitary tanks and villages.

3. Births and deaths.—Both birth and death rates declined, the figures being 33.75 and 29.38 per mille as compared with 35.30 and 29.77 per mille in 1912. The decrease in the number of births is attributed to the high prices of food-grains in 1912 and to the general unhealthiness of that year. The decrease in the death-rate was mainly under the heads "Cholera" and "Other causes." These rates compare less favourably with those of other Provinces than in the previous year; the excess of 198,053 births over the number of deaths is, however, satisfactory. From a comparison of the divisional statistics it appears that Dacca and Chittagong had the lowest death-rates, while Rajshahi and Chittagong had the highest birth-rates. On the whole, Chittagong maintained its place as the healthiest division although it showed a large increase in cholera mortality, the death-rate from this disease being higher in Noakhali than in any other district.

Infantile mortality shows a slight decrease, the death-rate being 20.95 per cent. as against 21.23 in 1912. Calcutta has again headed the list, the districts of Jalpaiguri and Burdwan now occupying the second and third places respectively.

The further rise of prices in 1913 has pressed heavily on the poorer classes, who find it difficult to purchase the necessaries of life. The Sanitary Commissioner anticipates a further drop in the birth-rate for 1914.

4. Verification of vital statistics.—Registration of vital statistics is still defective in Eastern Bengal and in the Burdwan district. Rangpur

shows the high percentage of 13.66 omissions to register deaths.

5. Chief diseases.—The death-rate from cholera fell from 2·10 to 1·74 per mille. It was highest in Noakhali, where the people are partial to dried fish and drink freely from tanks in which jute has been steeped; the population also contains a large element of Muhammadans, whose long fasts followed by a heavy meal do not conduce to good digestion. A slight epidemic in the Jalpaiguri Terai swelled the mortality of the Darjeeling district; but a plenteous and well-distributed rainfall rendered practically immune the districts of Jessore and Rajshahi which had suffered heavily in 1912. Cholera was, as usual, most prevalent in December and April. This is due to the drying up and consequent pollution of the water-supply. As soon as the rains commence epidemics cease, the lowest death-rate being returned in July.

The mortality from small-pox shows a slight increase; that among infants, however, declined from 45'14 to 32'22 per mille. Small-pox is especially prevalent in the Dacca and Chittagong Divisions. where there

is great opposition to vaccination among Muhammadans.

The number of deaths from plague shows a decrease of 1,011, the disease as usual being confined almost entirely to Calcutta and its suburbs. The mortality from dysentery and diarrhea shows a slight increase, but the

relative intensity in districts and divisions is practically unchanged.

There was a small increase in the total number of deaths from fever, the rates per mille for 1913, 1912 and the average of the five years 1908-12 being 21.30, 21.16 and 20.45, respectively. The mortality from fever in 1913 represents 72 per cent. of the number of deaths from all causes, an increase of 1 per cent. over 1912. Dinajpur and Jalpaiguri head the list with deathrates of 30.08 and 29.39 as compared with 34.13 and 32.08 in 1912. In twelve districts the death-rate exceeded 25 per mille. In the district of Malda six Additional Sub-Assistant Surgeons were employed for the distribution of quinine. The result was satisfactory, for the death-rate from fever fell from 35'83 in 1912 to 28'93 in 1913; no reference, however, is made in the report to the special enquiry which the Sanitary Commissioner was asked to make into the unhealthiness of this district. In Nadia and Murshidabad the death-rate continued to increase, though slightly, notwithstanding the deputation of Sub-Assistant Surgeons to these districts. reason for this continued increase cannot be ascribed to any antipathy to the services of these officers, for it is stated in the report that their work was generally appreciated. In the Burdwan Division twenty-five Sub-Assistant Surgeons were deputed to the flooded areas to render gratuitous medical aid. The subsidence of the floods, however, was not marked by any unusual prevalence of fever; in Burdwan town, on the contrary, the almost complete absence of mosquitoes and flies attracted the attention of the Civil Surgeon. The travelling dispensaries previously established in Dinajpur and Rajshahi were transferred to Jalpaiguri for work in the Western Duars for a period of one year. Quinine in "treatment" form is reported to be increasing in popularity, and its use is being encouraged, as far as possible. by advertisement and by the appointment of quinine vendors. The Provincial Malaria Committee dealt chiefly with this question of the popularisation of quinine, but jungle-cutting experiments were also considered. Major Fry, one of the two Special Deputy Sanitary Commissioners for Malaria Research, was on leave from March. His reports, containing many important researches, have since been received. Dr. Bentley drew up two experimental anti-malaria schemes, which have been approved by the Malaria Committee and submitted for sanction with the proposal that the grant made for jungleclearing be utilized in carrying them out.

6. Vaccination.—The report on vaccination covers the triennial period 1911-12 to 1913-14. The number of operations performed each year averaged 1.929,425, of which 1.722,101 were primary and 207,324 revaccination cases; these figures are all slightly higher than those of the preceding triennium. In Bakarganj there was a very large decrease in 1912-13; but it is reported that the figures of the previous years were totally

unreliable and that even those now furnished are very doubtful. The

figures for Tippera and Dacca are also suspected to be unreliable.

The Governor in Council notices with regret that the percentage of infants vaccinated fell from 48 in 1912-13 to 46 in 1913-14. Malda now heads the list with the excellent percentage of 86 and Bakarganj stands last with the almost incredibly low figure of 8'3. His Excellency in Council trusts that in future greater attention will be paid to the vaccination of infants.

The six-puncture system of vaccination was introduced into many districts in Eastern Bengal during 1912-13, but it was not adopted in every district till 1913-14. In that year the number of infant vaccinations performed under this system was more than double that of the year before, while the number of re-vaccinations was 47,899 against 7,563 and 3,301

during the two preceding years.

The system of anti-septic vaccination was introduced into the Eastern Bengal districts during 1913-14 with fairly satisfactory results. The average annual cost of vaccination was Rs. 1,79,381 as compared with Rs. 1,62,068

during the years 1908-09 to 1910-11.

The increase in the number of Deputy Sanitary Commissioners has rendered possible a more thorough inspection of vaccination. Many abuses have already been brought to light, especially in the Dacca Circle, where the Sanitary Commissioner has recently recommended the appointment of two special supervising officers to assist the Deputy Sanitary Commissioner.

This proposal is under the consideration of Government.

7. Sanitary improvements.—The total Municipal expenditure under all heads of sanitation during the financial year 1912-13 increased by more than Rs. 1,75,000 over that of the previous year. The expenditure on water-supply shows a large increase, for which Hooghly-Chinsurah, Kurseong and Howrah are mainly responsible. A waterworks scheme was also completed for Chandpur Old Market and several other schemes were under consideration. The expenditure on conservancy rose slightly in most municipalities, but in spite of this the total fell by more than a lakh of rupees. This is accounted for partly by the absence of any heavy expenditure such as had been incurred in the previous year on the Dacca conservancy tram, and partly by the reduction in expenditure on the Darjeeling sewage scheme now nearing completion. Something was done during the year under report to improve village sanitation in Birbhum, Hooghly, Midnapore, Bakarganj and Rangpur; but the Deputy Commissioner of the Presidency Circle reports that these sanitary measures receive no local support and are often rendered ineffective by lack of co-operation on the part of the educated classes.

8. Sanitary Board.—The Board was strengthened during the year by the inclusion of three non-official members. At the same time the Sanitary Engineer's Department was removed from its control. Rules giving effect to this arrangement were issued in November. Two meetings of the Board—one ordinary and one special—were held. Only four water-supply and three drainage schemes were considered during the year, but many have since

come up.

9. Sanitary Engineer's Department.—A separate report on the work of the Sanitary Engineer's Department is submitted this year for the first time, as this department is no longer under the control of the Sanitary Board. An additional Assistant Sanitary Engineer was appointed during the year, and Government sanction was accorded to the appointment of two subengineers, four surveyors, two assistant draftsmen and an accountant.

In addition to his own duties the Sanitary Engineer prepared detailed schemes for the water-supply of the Jherria coal-fields, his services being lent to the Government of Bihar and Orissa for two months for this purpose. The Sanitary Engineer was also a member of the Committee appointed to consider questions relating to Calcutta sewage and in this connection he designed experimental sewage works at Entally. Many sketch and detailed projects were drawn up and in course of preparation during the year. The progress made in engineering work showed some improvement; of ten water-supply and eleven drainage schemes under construction, five waterworks and two drainage schemes were completed. The Burdwan drainage scheme was seriously interrupted by the floods, but satisfactory progress has been

made since the close of the year. The Governor in Council hopes that the improvement in the progress of works under construction will continue, and that municipalities will not be slow to make full use of the facilities that are now offered for the preparation and carrying out of sanitary schemes.

No reasonable assistance in the shape of grants will be refused.

10. Staff.—At the beginning of the year there was only one Deputy Sanitary Commissioner, but three officers were subsequently appointed for the Dacca, Rajshahi and Burdwan Circles. There was, however, only one special officer for the malaria investigation work during the greater part of the year, as the officer sent to relieve Major Fry was appointed to one of the additional posts of Deputy Sanitary Commissioner.

11. The Bengal Municipal (Sanitary Officers) Act was passed after the close of the year under report, and steps are now being taken to extend it to municipalities. Six Health Officers and one Sanitary Inspector were appointed last year, and classes are being held for the training of Sanitary

Inspectors to meet the requirements of municipalities.

12. In conclusion the Governor in Council desires to place on record his appreciation of the excellent work done during the past year by Major W. W. Clemesha, Sanitary Commissioner, Mr. G. B. Williams, Sanitary Engineer, and Major Fry and Dr. Bentley, Deputy Sanitary Commissioners.

By order of the Governor in Council,

H. F. SAMMAN,

Secretary to the Govt. of Bengal.

Nos. 781-791San.

[] For (1) and

COPY [with copies of reports] forwarded to-

- all Commissioners of Divisions for information and for communication to all District Officers in their respective divisions.
- (2) the Inspector-General of Civil Hospitals, Inspector-General of Prisons, Bengal, for information.
- (3) the Sanitary Commissioner, Secretary to the Sanitary Board. Bengal, for information. Sanitary Engineer.

[] For Sanitary [2. His attention is specially drawn to the remarks contained in Commissioner only. paragraph 6 of the Resolution.]

By order of the Governor in Council,

R. B. STEELE.

Under-Secy. to the Govt. of Bengal.

CALCUTTA,

The 13th August 1914.

Ste







