### 14th triennial report of vaccination in Bengal.

### Contributors

Bengal (India)

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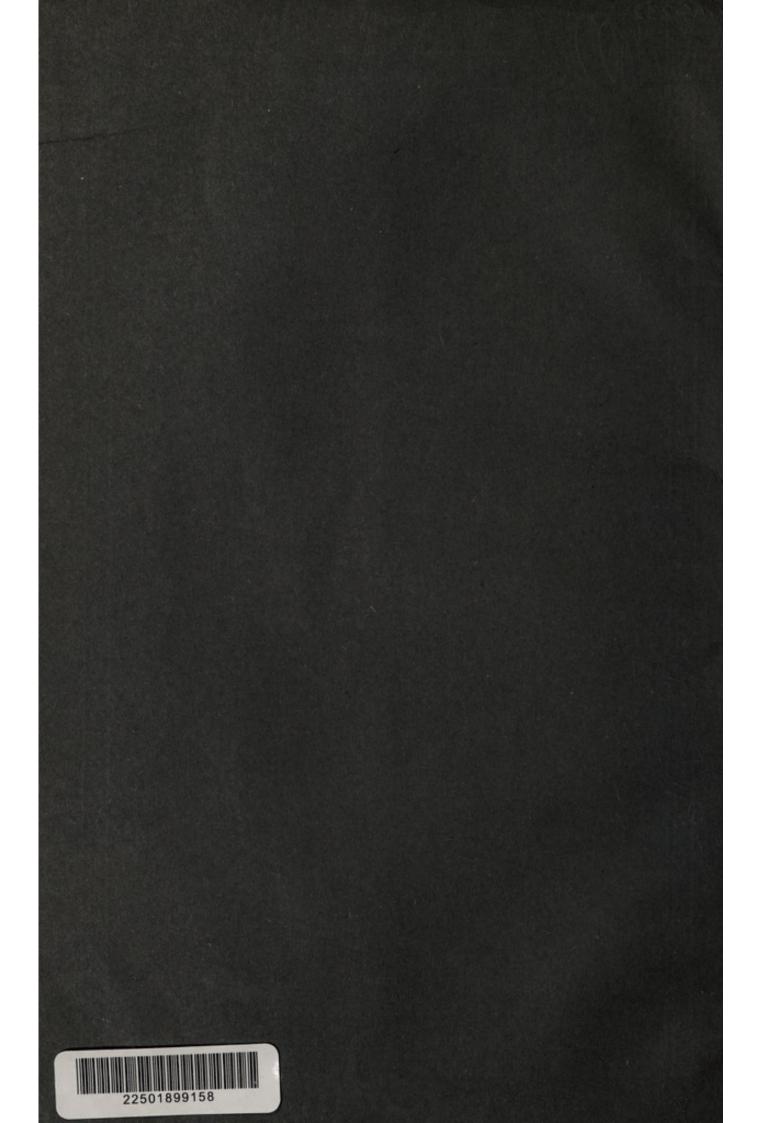
**Government** of Bengal

# Fourteenth Triennial Report on Vaccination in Bengal

For the Years 1926-27, 1927-28 and 1928-29

> Bengal Secretariat Book Depot. 1930

Price-Indian, Rs. 2-8; English, 4s. 6d.



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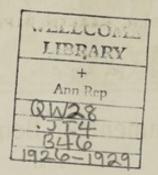
## Government of Bengal

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### BENGAL PUBLIC HEALTH DEPARTMENT.

No. 852 V.

FROM

DR. C. A. BENTLEY, C.I.E., M.B., D.P.H., D.T.M. & H., Director of Public Health, Bengal,

To

### THE SECRETARY TO THE GOVERNMENT OF BENGAL, LOCAL SELF-GOVERNMENT DEPARTMENT.

### Calcutta, the 25th January 1930.

SIR,

I have the honour to submit for the information of the Government of Bengal the Provincial Report on Vaccination for the triennium 1926-27 to 1928-29 including the statistical vaccination returns for the year 1928-29 by Dr. Sufi, Assistant Director of Public Health in charge of Vaccination in the Bengal Public Health Department.

> I have the honour to be, SIR, Your most obedient servant,

CHAS. A. BENTLEY, Director of Public Health, Bengal. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

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Fourteenth Triennial Report on Vaccination in Bengal for the years 1926-27, 1927-28 and 1928-29.

I have the honour to submit the following Report on Vaccination in Bengal for the triennium ended with 1928-29.

I was in charge of the Vaccination and Vital Statistics Bureau throughout the triennium.

2. Strength of Staff.—The following table shows the strength of the staff in the rural and urban areas of the province during the triennial period under review:—

| Classes.   | 1926-27, | 1927-28. | 1928-29. | Total, | Aver- | Average of the<br>previous trie-<br>nulum. |
|--|----------|----------|----------|--------|-------|--|
| (a) Rural areas                                    |          | 3.3 4    | 1.0.0    |        |       |  |
| Vaccination Inspectors and<br>Sub-Inspec-<br>tors* | 1        | 125      | 181      | 399    | 133   | 129  |
| Vaccinators  | 1,596    | 1,535    | 1,832    | 4,963  | 1,654 | 1,495                                      |
| (b) Mufassal mu<br>nicipalities.                   |          |          |          |        |       | -  |
| Vaccination Ins<br>pecting Offi-<br>cers           |          | 5        | .2       | 9      | 3     | 5  |
| Vaccinators  | 144      | 157      | 154      | 455    | 152   | 147  |
| (e) Caleutta.                                      | A LANGE  | ALC: Y   | ALC: FOR | 1.000  |       | 1  |
| Inspecting Offi-                                   | 10       | 16       | 18       | 50     | 17    | 16   |
| Vaccinators  | 58       | 58       | 60       | 176    | 59    | 55   |

\* Excluding officers of the rural public health organization.

3. General Vaccination Statistics.— The statement below shows the work done in the province during the period under review:—

The appended table is self-explanatory. The province has been visited by the usual quinquennial epidemic of small-pox, since the close of the year 1924, and the all-round increase is due to the vigorous anti-vaccination campaigns started by practically every local body. The excess in the average number of revaccinations performed during the triennium under review of 147.4 per cent. and the increase of 258-3 per cent. in the recess work, are very creditable indeed. The apparent decrease in the percentage of successful primary cases, and the unchanged rate of successful revaccination cases in which the results were known, are due to the fact that during the epidemic season, the vaccinators were too busy with vaccinating every person they could lay their hands upon and could not spare sufficient time to note the result of every operation performed by them and hence the majority of the cases were returned as "' un-known."

A comparison of the work done in 1928-29 with the previous year shows an excess of 1,307,037 in the number of persons vaccinated and of 1,305,582 in that of the operations performed, the latter comprising of 123,543 in the number of primary and of 1,182,039 in that of revaccinations. The number of successful operations also increased by 82,162 in the case of primary and by 741,061 in that of revaccinations. 434 more persons on an average were vaccinated by each vaccinator. While the

| and the second second second                                  |               | Present      | riennium. |           | Average                                 | Increase +     | Percentage                        |
|---|---------------|--------------|-----------|-----------|---|----------------|-----------------------------------|
| Headings.   | 1926-27.      | 1927-28.     | 1928-29.  | Average.  | of the<br>previous<br>triennium.        | or<br>decrease | of increase<br>+ or de-<br>crease |
| Total number of persons vaccinated                            | 3,276,975     | 3,969,367    | 5,276,404 | 4,174,249 | 2,581,364                               | +1.592.885     | +61.7                             |
| Total number of vaccinations per-<br>formed.                  | 3,278,581     | 3,975,837    | 5,281,419 | 4,178,612 | 2,583,623                               | +1,594,989     | +61.7                             |
| (a) Primary Vaccinations                                      | 1,741,801     | 1,928,674    | 2,052,217 | 1,907,564 | 1,665,623                               | +241,941       | +14.5                             |
| Successful  | 1,657,657     | 1,814,715    | 1,896,877 | 1,789,750 | 1,602,006                               | +187,744       | +11.7                             |
| (b) Revaccinations  | 1,536,780     | 2,047,163    | 3,229,202 | 2,271,048 | 918,000                                 | +1,353,048     | +147-4                            |
| Successful  | 800,543       | 1,092,249    | 1,833,310 | 1,242,034 | 492,343                                 | +749,691       | $+152 \cdot 3$                    |
| Average number of persons vacci-                              |               |              |           |           | 100000000000000000000000000000000000000 |                | 19/19/2012                        |
| nated by each vaccinator<br>Percentage of successful cases in | 1,761         | 2,145        | 2,579     | 2,162     | 1,464                                   | +698           | +47.7                             |
| which results were known-                                     | 122/2011      |              | 775 1     | 1.1.1.1   | 100.00                                  |                | and the second second             |
| (a) Primary   | 95.1          | 94-1         | 92-9      | 94.0      | 96-1                                    | $-2 \cdot 1$   |                                   |
| (b) Revaccinations  | 52.09         |              | 56.5      | 53.9      | 53.9                                    | ±0             |                                   |
| Ratio of successful vaccinations                              |               |              |           |           |   |                | 100                               |
| per mille of population                                       | $52 \cdot 8$  | $62 \cdot 2$ | 79.7      | 64.9      | 44.8                                    | $+20 \cdot 1$  | + • 44                            |
| Number of children successfully<br>vaccinated-                | 10000         | 1            |           |           |   |                |                                   |
| (a) Under one year  | 274,398       | 281,727      | 262,982   | 273,036   | 311,052                                 | -38,016        | -12.2                             |
| (b) One year and under six                                    |               |              |           |           |   |                |                                   |
| years<br>Total number of vaccinations per-                    | 1,109,756     | 1,192,010    | 1,222,631 | 1,174,799 | 1,039,638                               | +135,161       | +13.0                             |
| formed during the non-vacci-                                  | and the start | and a second |           | -         |   | -              |                                   |
| nation season.  | 393,875       | 1,162,525    | 1,139,924 | 898,775   | 250,866                                 | +647,909       | $+258 \cdot 3$                    |
| (a) Primary   | 113,119       | 335,901      | 295,472   | 248,164   | 86,181                                  | +161,983       | +187.9                            |
| (b) Revaccinations  | 280,756       | 826,624      | 844,452   | 650,611   | 164,685                                 | +485,926       | $+295 \cdot 1$                    |

rate of success in primary cases in which results were known declined from 94.1 per cent. to 92.9 per cent., that of revaccinations rose from 53.3 per cent. to 56.5 per cent. 79.7 persons per mille of population were successfully vaccinated against 62.2 in the previous year. Again, while there was a decrease of 18,745 in the number of children under one year successfully vaccinated, an excess of 30,621 was noticed in the case of children of one year and under six vears of age. The recess vaccination fell by 22,601, but while the number of primary operations decreased by 40,429, there was an increase of 17,828 in the number of revaccinations.

4. Vaccination in Rural Areas.—(a) The total number of operations performed in the rural areas in the triennial period under review was 11,270,136 comprised of 5,389,593 primary and 5,880,543 revaccinations, the average being 3,756,712, against a total of 6,916,564, of which 4,726,382 were primary and 2,190,182 revaccinations and an average of 2,305,521 in the previous triennium showing a net increase of 4,353,572 in the total, 663,211 in primary, 3,690,361 in revaccinations and an average annual increase of 1,451,190 in the total, 221,070 in primary and 1,230,120 in revaccinations in the period under review.

(b) The following table compares the number of operations performed in the rural areas in 1928-29 with those done in 1927-28.

All the districts in the province performed an excess number of operations in 1928-29, as compared with the previous year, except the Asansol Mining Settlement, Birbhum, Bankura, Midnapur, Jalpaiguri and Pabna. This increase was most marked in Malda, Murshidabad and Jessore.

Vaccination in rural areas.

| Districts.        |        | Vaccin    | ations.   | Differ-   | Percent-         |
|-------------------|--------|-----------|-----------|-----------|------------------|
| noitzain          | 21     | 1927-28.  | 1928-29.  | ences.    | or de-<br>crease |
| Burdwan           |        | 68,441    | 88,697    | 20,256    | + 29 - 59        |
| Asansol Mining S  | ettle- | 29,168    | 24,471    | 4,697     | -16.10           |
| ment.<br>Birbhum  |        | 75,792    | 60,001    | 15,791    | - 20 - 83        |
| Bankura           |        | 72,012    | 64,685    | 7,327     | -10.17           |
| Midnapur          | 1.     | 382,606   | 268,984   | 113,622   | -29.70           |
| Hooghly           |        | 44,733    | 47,239    | 2,506     | +5.60            |
| Howrah            |        | 39,212    | 45,907    | 6,695     | +17-01           |
| 24-Parganas       |        | 153,561   | 174,737   | 21,176    | +13-7            |
| Nadia             |        | 97,171    | 108,892   | 11,721    | +12-0            |
| Murshidabad       |        | 158,914   | 361,743   | 202,829   | +127 -6          |
| Jessore           |        | 83,986    | 178,399   | 94,413    | +112-4           |
| Khulna            |        | 76,477    | 147,591   | 71,114    | +92.9            |
| Rajshahi          |        | 99,434    | 155,961   | 56,527    | +56-8            |
| Dinajpur          |        | 138,809   | 150,419   | 11,610    | +8.3             |
| Jalpaiguri        |        | 63,988    | 63,311    | 677       | -1-0             |
| Darjeeling        |        | 18,495    | 34,910    | 16,415    | +88.7            |
| Rangpur           |        | 163,901   | 220,858   | 56,957    | +34.7            |
| Bogra             |        | 69,974    | 73,579    | 3,605     | +56-1            |
| Pabna             |        | 212,754   | 113,572   | 99,182    | -46.6            |
| Malda             |        | 184,851   | 498,429   | 313,578   | +169 -           |
| Dacca             |        | 161,097   | 273,724   | 112,627   | +69.9            |
| Mymensingh        |        | 387,310   | 519,130   | 131,820   | +34-0            |
| Faridpur          |        | 128,990   | 159,091   | 30,101    | +23.3            |
| Bakarganj         |        | 150,341   | 206,754   | 56,413    | + 37 .5          |
| Chittagong        |        | 122,929   | 186,323   | 63,394    | +51.5            |
| Noakhali          |        | 182,948   | 237,545   | 54,597    | +29.8            |
| Tippera           |        | 223,137   | 380,658   | 157,521   | + 70 -54         |
| Chittagong Hill ? | Tracts | 9,825     | 19,604    | 9,779     | + 99 -5          |
| Total for the Pro | vince  | 3,600,856 | 4,865,214 | 1,264,358 | +35.1            |

(c) The details of primary and revaccinations performed district by district are given below:—

|                  |            |       | Primary va | ccinations, |             | Percentage<br>of increase | Revaccin  | ations.                     | Difference,      | Percentage<br>of increase |
|------------------|------------|-------|------------|-------------|-------------|---------------------------|-----------|-----------------------------|------------------|---------------------------|
| Distr            | icts.      |       | 1927-28.   | 1928-29,    | Difference. | + or<br>decrease          | 1927-28.  | 1928-29.                    | Difference.      | +or<br>decrease           |
| Burdwan          |            |       | 40,290     | 47,512      | 7,222       | +17.92                    | 28,151    | 41,185                      | 13,034           | +46.3                     |
| Asansol Mining : | Settlement |       | 13,142     | 14,051      | 909         | +6-91                     | 16,026    | 10,420                      | 5,606            | -34.98                    |
| Birthum          |            |       | 37,360     | 30,535      | 6,825       | -18.27                    | 38,432    | 29,466                      | 8,966            | -15.52                    |
| Bankura          |            |       | 36,694     | 41,617      | 4,923       | +13.42                    | 35,318    | 29,466<br>23,068<br>172,921 | 12,250           | - 34 . 68                 |
| fidnapur         |            |       | 143,629    | 96,063      | 47,566      | -33-11                    | 238,977   | 172,921                     | 66,056           | -27.64                    |
| Hooghly          |            |       | 19,862     | 23,699      | 3,837       | +19-31                    | 24,871    | 23,540                      | 1,331            | -5-35                     |
| lowrah           |            |       | 24,626     | 26,700      | 2,074       | +8.42                     | 14,586    | 19,207                      | 4,621            | +31.68                    |
| 4-Parganas       |            |       | 112,643    | 108,916     | 3,727       | -3.31                     | 40,918    | 65,821                      | 24,903           | +60.85                    |
| Nadia            |            |       | 45,045     | 55,685      | 10,640      | +23.61                    | 52,126    | 53,207                      | 1,081            | +2:07                     |
| furshidabad      | 1000       |       | 55,958     | 55,460      | 498         | 89                        | 102,956   | 306,283                     | 203,327          | +197.5                    |
| lessore          |            | 10.0  | 42,951     | 42,713      | 238         | 55                        | 41.035    | 135,686                     | 94,651           | +230.6                    |
| Khulna           | 100        |       | 52,390     | 59,790      | 7,400       | +14.12                    | 24,087    | 87,801                      | 63,714           | +264 - 5                  |
| Rajshahi         |            | 1000  | 40,740     | 24,488      | 16,252      | - 39-89                   | 58,694    | 131,473                     | 63,714<br>72,779 | +124.0                    |
| Dinajpur         |            |       | 83,733     | 84,977      | 1,244       | +1.48                     | 55,076    | 65,442                      | 10,366           | +18.82                    |
| alpaiguri        |            | 1.201 | 29,510     | 27,010      | 2,500       | -8-47                     | 34,478    | 36,301                      | 1,823            | +5.29                     |
| Darjeeling       |            |       | 8,566      | 10,034      | 1,468       | +17.13                    | 9,929     | 24,876                      | 14,947           | +150-5                    |
| Rangpur          |            |       | 93,779     | 110,935     | 17,156      | +18.29                    | 70,122    | 109,923                     | 39,801           | +56-75                    |
| Bogra            |            |       | 30,574     | 30,915      | 341         | +1.11                     | 39,400    | 42,664                      | 3,264            | +8-26                     |
| Pabna            |            |       | 74,301     | 57,666      | 16,635      | - 22.38                   | 138,453   | 55,906                      | 82,547           | -59-64                    |
| falda            |            |       | 27,467     | 29,771      | 2,304       | +83.86                    | 157,384   | 468.658                     | 311,274          | +197-8                    |
| Daoca            |            |       | 106,214    | 142,841     | 36,127      | +34.01                    | 54,883    | 468,658<br>131,383          | 76,500           | +139.4                    |
| fymensingh       |            |       | 240,839    | 269,646     | 28,807      | +11.96                    | 146,471   | 249,484                     | 103,013          | +70-32                    |
| Faridpur         |            |       | 64,993     | 65,904      | 911         | +1.40                     | 63,997    | 93,187                      | 29,190           | +45-61                    |
| Bakarganj        |            |       | 126,696    | 166,633     | 39,937      | + 31 - 52                 | 23,645    | 40,121                      | 16,467           | + 69-67                   |
| hittagong        |            |       | 64,542     | 83,091      | 18,549      | +28.74                    | 58,387    | 103,932                     | 44,845           | +76-80                    |
| Noakhali         |            |       | 78,047     | 89,286      | 11,239      | +14.40                    | 104,901   | 103,232<br>148,259          | 43,358           | +41-33                    |
| Cippera          |            |       | 121,717    | 134,580     | 12,863      | +10.57                    | 101,420   | 246,078                     | 144,658          | +142.6                    |
| hittagong Hill   | Tracts     |       | 6,242      | 7,846       | 1,604       | +25.69                    | 3,583     | 11,758                      | 8,175            | +228-1                    |
|                  | Total      |       | 1,822,550  | 1,937,864   | 115,314     | +6.32                     | 1,778,306 | 2,927,350                   | 1,149,044        | +64-6                     |

Both the primary and revaccinations decreased in Birbhum, Midnapur and Pabna. In the Asansol Mining Settlement, Bankura and Hooghly while the primary vaccinations increased, there was a reduction in the number of revaccinations. The reverse was the case in 24-Parganas, Murshidabad, Jessore, Raj-shahi and Jalpaiguri. The remaining 17 districts showed an increase both in primary and revaccinations. In Burdwan, the Asansol Mining Settlement, Birbhum, Bankura, Hooghly, Howrah, 24-Parganas, Nadia, Dinajpur, Rangpur, Pabna, Dacca, Mymensingh, Faridpur, Bakarganj and Chittagong the line of least resistance was followed with the result that primary vaccinations exceeded revaccinations, even though the smallpox epidemic in at least six of these districts was more prevalent in 1928-29 than what it had been in the previous year. It is unfortunate that in these districts the importance of revaccination as an essential factor in controlling smallpox epidemics was overlooked by the local sanitary authorities, but I trust that this laxity will not be repeated in future.

(d) The increase in the number of vaccinations wherever it has occurred, has been due to the presence of smallpox in an epidemic form, which is the only stimulus for the people to get themselves vaccinated. The decrease has been ascribed by the District Health Officers to various causes, chiefly the comparative freedom of the district from smallpox during season time, the presence of malaria affecting both the vaccinators and the persons to be vaccinated, the paucity in the number of vaccinators employed, the insufficient supervision exercised by the Sanitary Officers due to their being very busy with anti-cholera work, and to a certain extent by the obstruction caused by anti-vaccinationists, quacks and conscientious and religious objectors. More attention is said to have been paid to mass revaccination to suppress local smallpox epidemics and hence no time was left to vaccinators to carry on their normal work on primary vaccination in many districts.

5. Vaccination in Municipalities.— (a) 942,697 operations of which 270,156 were primary and 672,541 revaccinations, were performed in the present triennium against 556,406, 223,180 and 333,226, respectively, in the previous triennium showing a net increase of 386,291 in total, 46,976 in primary and 339,315 in revaccinations and an average annual increase of 128,764, 15,659 and 113,105, respectively, in the triennial period under review.

(b) Both the primary and revaccinations in 1928-29 showed an excess over those of the previous year in the municipalities of Burdwan, Hooghly, Howrah, 24-Parganas, Nadia, Jessore, Khulna, Rajshahi, Dinajpur, Jalpaiguri, Darjeeling, Bogra and Bakarganj districts and a reduction in those of Bankura, Midnapur, Rangpur, Pabna, Dacca, Mymensingh, Faridpur, Chittagong, Noakhali and Tippera. In the municipalities of Birbhum and Murshidabad districts and in Calcutta, while more primary vaccinations were performed during the year under review, the number of revaccinations decreased; the reverse was the case, however in those of the Malda district.

Vaccination in municipalities.

| Districts.  |     | Primary  | vacel-<br>tions. | 8e+ or<br>ease | Revace   | inations. | 86+ OF<br>CA80 |
|-------------|-----|----------|------------------|----------------|----------|-----------|----------------|
| -           |     | 1927-28. | 1928-29.         | Increase       | 1927-28. | 1928-29.  | Increase       |
| Burdwan     |     | 2,481    | 3,106            | +              | 3,202    | 4,611     | +              |
| Birbhum     |     | 181      | 191              | +              | 952      | 112       | -              |
| Bankura     |     | 2,492    | 2,202            | -              | 2,275    | 1,770     | -              |
| Midnapur    |     | 2,049    | 1,631            | -              | 5,438    | 2,125     | -              |
| Hooghly     |     | 4,820    | 5,545            | +              | 3,693    | 8,867     | +              |
| Howrah      |     | 4,267    | 4,683            | +              | 5,851    | 7,244     | +              |
| 24-Parganas |     | 13,039   | 14,360           | +              | 7,157    | 9,866     | +              |
| Calcutta    |     | 20,993   | 23,877           | +              | 90,087   | 82,275    | -              |
| Nadia       |     | 2,961    | 3,004            | +              | 2,791    | 3,5-64    | +              |
| Murshidabad |     | 2,239    | 2,337            | +              | 4,404    | 4,235     | -              |
| Jessore     |     | 239      | 440              | +              | 194      | 286       | +              |
| Khulna      |     | 580      | 965              | +              | 698      | 830       | +              |
| Rajshahi    |     | 951      | 1,319            | +              | 2,199    | 3,230     | +              |
| Dinajpur    |     | 595      | 1,132            | +              | 1,628    | 6,470     | +              |
| Jalpaiguri  |     | 363      | 467              | +              | 588      | 626       | +              |
| Darjeeling  |     | 1,129    | 1 807            | +              | 3,681    | 25,211    | +              |
| Rangpur     |     | 1,418    | 929              | -              | 7,427    | 1,200     | -              |
| Bogra       |     | 284      | 772              | +              | 1,045    | 7,057     | +              |
| Pabna       |     | 2,127    | 2,023            | -              | 1,943    | 1,930     | -              |
| Malda       |     | 1,223    | 957              | -              | 2,149    | 7,349     | +              |
| Dacca       |     | 8,021    | 7,129            | -              | 16,474   | 14,937    | -              |
| Mymensingh  | **  | 3,448    | 2,534            | -              | 5,331    | 3,857     | -              |
| Faridpur    |     | 1,722    | 1,683            | -              | 1,225    | 860       | -              |
| Bakarganj   |     | 1,895    | 2,074            | +              | 1,726    | 2,858     | +              |
| Chittagong  |     | 1,897    | 1,436            | -              | 8,354    | 4,721     | -              |
| Noakhali    | **  | 771      | 382              | -              | 1,597    | 606       | -              |
| Tippera     |     | 2,001    | 1,885            | -              | 1,851    | 1,836     | -              |
| Total       | ••• | 84,186   | 88,870           | +              | 183,460  | 208,533   | +              |

6. Vaccinations performed by other agencies.—(a) The following table compares these operations during the two trienniums:—

|                    | Years.      |        | Primary<br>vaccina-<br>tions. | Revacci-<br>nations. | Total.  |  |  |
|--------------------|-------------|--------|-------------------------------|----------------------|---------|--|--|
| 1926-27            |             |        | 15,522                        | 81,345               | 96,867  |  |  |
| 1927-28            |             |        | 21,938                        | 85,397               | 107,385 |  |  |
| 1928-29            | ••          |        | 24,093                        | 93,319               | 117,412 |  |  |
| т                  | otal        |        | 61,553                        | 260,061              | 321,614 |  |  |
| Total of the nium. | ie previous | trien- | 47,306                        | 230,592              | 277,898 |  |  |
| Increase           |             |        | 14,247                        | 29,469               | 43,716  |  |  |
| Average incr       | ease        |        | 4,749                         | 9,823                | 14,572  |  |  |

(b) The number of operations performed during the year under review and the previous year are shown below:—

| Agencies.    |            | y vacci-<br>ions. | ANG + OF | Revacci  | Rease    |          |
|--------------|------------|-------------------|----------|----------|----------|----------|
| 1. Car       | 1927-28.   | 1928-29.          | Incred   | 1927-28. | 1928-29. | Increase |
| Tea gardens  | <br>11,566 | 9,675             | -        | 13,957   | 23,415   | +        |
| Factories    | <br>7,303  | 7,930             | +        | 9,038    | 22,017   | +        |
| Railways     | <br>2,746  | 6,404             | +        | 27,220   | 14,766   | -        |
| Steamers     | <br>       |                   |          | 2,391    | 1,879    | -        |
| Dispensaries | <br>       | 8                 | +        |          | 19       | +        |
| Jails        | <br>323    | 76                | -        | 32,791   | 31,223   | -        |
| Total        | <br>21,935 | 24,093            | +        | 85,397   | 93,319   | +        |

7. Protection afforded to infants.— (a) An average of  $256 \cdot 0$  per mille of the surviving population of infants in the province,  $237 \cdot 8$  in rural and  $524 \cdot 7$  in the municipal areas were successfully vaccinated during the present triennium against  $269 \cdot 2$ ,  $252 \cdot 6$  and  $517 \cdot 5$  respectively in the previous one. In Calcutta, however, the degree of protection was  $1107 \cdot 8$  against  $958 \cdot 7$  in the previous triennium.

(b) In 1928-29, 216.9 per mille of all the available infants were protected in rural areas, 473.3 in the municipalities, 802.05 in Calcutta and 233.3 in the province, against 246.7, 511.7, 856.8 and 261.4, respectively, in the previous year. While the increase in the towns is satisfactory, the decrease in the rural areas is regretable. With the exception of Burdwan, Bankura, Nadia, Jalpai guri, Darjeeling, Dacca and Chittagong, all the other districts have returned a decrease in this proportion. The record of the following three districts deserves special notice:—

|            |      | 1927-28. | 1928-29. |
|------------|------|----------|----------|
| Mymensingh | <br> | 95 ·6    | 85.7     |
| Faridpur   | <br> | 77 - 9   | 65.6     |
| Bakarganj  | <br> | 41 -2    | 31 -4    |

The reduction in Rajshahi and Jessore from 487.1 and 334.1 in 1927-28 to 255.1 and 165.6 in 1928-29, respectively, is, to say the least of it, very discouraging.

(c) The low degree of protection in the rural areas has been attributed by the District Health Officers generally to the unwillingness on the part of the parents or guardians to have their children vaccinated under the age of one year, in fact to 3 or 4 years in some districts; and the vaccinators having no knowledge of the actual age of infants in a family are unable to trace them; for the same reason no notice could be served on their guardians under the Bengal Vaccination Act for the enforcement of primary vaccination. Now that the Bengal Births and Deaths Registration Act has been extended to rural areas, there is every possibility of this difficulty being overcome. Occasionally, it has been reported to be due to the illness of infants from malaria, measles and other epidemic and endemic diseases.

Linear method of vaccination.-8. This method has only been very recently introduced in all the districts, and sufficient time has not yet elapsed to finally establish its superiority over the old scarification method. Besides, the vaccinators so long accustomed to the old method have not yet become fully used to the new technique. So far as the consensus of opinion of the District Health Officers goes, it has given a rate of success as satisfactory as the old method, to say the least of it, and what is more, being less painful and comparatively free from complications, has been favourably received by the general public. The District Health Officers of Birbhum, Jalpaiguri and Bakarganj, however, still seem to favour the old method. In Dinajpur, linear method was found to be more successful in primary than in revaccination cases, where scarification was reported to have ensured better suc-The Bogra District Health Officer cess. obtained better results with incisions "given like a cross in order to increase the skin surface inoculated." I am con. vinced that, in course of time, the linear

| o of deaths<br>allpox per<br>population | I         | Bu      |         | wa                                      |  | and   | P          | re<br>Di   |                      |   | on  | -  | 44   |  |                                       |  | ah   |  | 100   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Di    | aco        |                         | 10.00     | (hil<br>Div |          | 1000                  | on                        |
|---|-----------|---------|---------|---|--|---|------------|--|----------------------|---|---|--|--|--|---------------------------------------|--|--|--|-------|---------------------------------------|-------|------------|-------------------------|-----------|-------------|----------|-----------------------|---------------------------|
| S from smallpo<br>010000 of popu        |           | Birbhum | Bankura | Midnapur                                | Hooghly  | Howrah  | 24Parganas | Calcutta   | Nadia                | Murshidabad   | Jessore   | Khulna   | Rajshahi   | Dinajpur   | Jalpaiguri                            | Darieeling   | Rangpur  | Bogra  | Pabna | Malda                                 | Dacca | Mymensingh | Paridpur                | Bakargunj | Chittagong  | Noakhali | Tippera               | lon<br>10,0               |
| - 80 .                                  | ALL INTER |         |         |   | Contra Contra  | W III III IIII  |            |  | 日本に                  |   | 12 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | のかられ料料   | 時たけない  |  |                                       | No. of the second second   | 10 - 14 D - 1  |  |       |                                       |       |            |                         | 2 2       |             |          |                       | -80 00 -                  |
| - 70 -                                  |           |         |         | 27                                      |  |   |            |  |                      |   |   |  | 1  | -  | -                                     |  | 100  |  |       |                                       |       |            |                         |           |             |          |                       | -7000 -                   |
| - 60 .                                  | ſ         | 1       |         |   |  | The second second   |            |  |                      |   |   |  |  |  | 1 1 1                                 |  |  |  |       |                                       |       |            |                         |           |             |          |                       | -6000 -                   |
| 50 -                                    |           |         |         |   |  | -   |            | Concession of the local division of the loca | -                    |   |   |  | Contraction of the local distance of the loc | Contraction of the local division of the loc | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Contraction of the local division of the loc | *  | and the second s | ſ     |                                       |       |            |                         |           | ſ           |          |                       | -5000 -                   |
| - 40 -                                  |           |         |         |   |  |   |            |  |                      | A COLUMN TWO IS NOT   |   | Contraction of the local division of the loc |  |  |                                       |  |  |  |       |                                       |       |            |                         |           |             |          | and a second second   | -4000 -                   |
| - 20 -                                  |           |         |         | 100 100 100 100 100 100 100 100 100 100 | A CONTRACTOR OF A CONTRACTOR A | and the second se |            |  |                      | and the second se | and the second se |  |  |  | A COLUMN TO A COLUMN                  |  | And and a second se |  |       |                                       |       |            | No. of Concession, Name |           |             |          | and the second second | -2000 -                   |
| - 10 -                                  |           |         |         |   |  |   |            |  | and the state of the |   | Contraction of the second   |  |  |  |                                       |  |  | Ŧ,   |       |                                       |       |            |                         |           |             |          |                       | -1000 -                   |
| 0                                       |           |         |         |   |  |   |            |  |                      |   | 7   | 1.00   | 7  |  |                                       | 2  |  |  |       |                                       |       |            |                         |           |             | 7        | 1                     | 0                         |
| Smallpox<br>deaths                      | 6270      | 4369    | 5020    | 5352                                    | 3875   | 2744  | 4116       | 504I   | 4297                 | 6082  | 4160  | 4589   | 5595   | 5515   | 3759                                  | 4869   | 4092   | 3380   | 4797  | 8756                                  | 4260  | 5652       | 3953                    | 4199      | 4836        | 5297     | 5948                  | Successful<br>Vaccination |
|   | 5.5       | 5       | 6-I     | _                                       | S-S  | 0.6   |            | 13-6   | 3.1                  | .6  | I.5   | ò  | 2.5  | 4.   | 4.2                                   | 0.1  | 6.1  | I0-4   | 8-5   | 6.5                                   | 6-8   | 4.I        | 4.7                     | 9.0       | 5-5         | 2.2      | 3.4                   | Succ                      |

Diagram illustrating Death-rates from Small-pox and degree of Protection afforded during 1919-20 to 1928-29.

Indicate the proportion of population protected by vaccination.

method of incision will be universally accepted without a single dissentient voice.

9. Cost of vaccination.-(a) The average cost of vaccination during the review was under triennium Rs. 4,75,712-1-1 against Rs. 4,47,795-0-10 in the previous triennium. In 1928-29, to amounted total cost the 4,84,635-10-11, of which Rs. Rs. 1,85,165-9-11 (including the annual recurring grant of Rs. 50,000) were contributed by the Government and Rs. 2,99,470-1-0 by local bodies, against Rs. 4,89,681-9-8, Rs. 1,77,523-0-8 and Rs. 3,12,158-9-0, respectively, in the previous year.

(b) The following district boards reduced their expenditure on vaccination during the year under review compared with the previous year:— (c) The average cost of each successful case was 2 annas and 5 pies in the present against 3 annas and 2 pies in the previous triennium and one anna and 7 pies in 1928-29 against 2 annas and 8 pies in the preceding year.

10. Mortality from smallpox.—The diagram on preceding page gives side by side the death rates from smallpox in each district and the proportion of population protected by vaccination during the last 10 years. The quinquennial epidemic that started towards the close of 1924, continued throughout the year, though it now shows signs of abatement. The average number of deaths during the present triennium 37,890 exceeded that of the previous one, 10,989 by 26,901 or 244.7 per cent. The total number of deaths in 1928-29, 42.020 exceeded the previous year's total 39,713

| Districts.  |    | 5 | 1       | Expense | liture. |      |    | Amount  |      | Small pox<br>rate per | Increase<br>+ or<br>decrease |       |
|-------------|----|---|---------|---------|---------|------|----|---------|------|-----------------------|------------------------------|-------|
|             |    |   | 1927-28 | 8.      | 1928-   | 29.  |    | reducti | on.  | 1927-28.              | 1928-29.                     | -,    |
| 5000        |    |   | Rs. A   | . P.    | Rs.     | ٨.   | P. | Rs.     | . P. |                       |                              | 0.0   |
| Dacea       |    |   |         | 3 2     | 4,943   | 3    | 7  | 15      |      | •84                   | 2.67                         | +     |
| 24-Parganas |    |   | 11,608  | 8 6     | 11,281  | 14   | 7  | 326     | 9 11 | ·88                   | · 35                         | ins-  |
| Darjeeling  |    |   | 4,570   | 6 0     | 4,192   | 6    | 0  | 378     | 0 0  | .07                   | .30                          | +     |
| Cippera     |    |   | 7,923 1 | 5 0     | 7,003   | 2    | 0  | 920     | 13 0 | ·41                   | 1.16                         | +     |
| Hooghly     |    |   | 2,911 1 | 4 9     | 1,920   | 5    | 0  | 991     | 9 9  | .85                   | .71                          | -     |
| Jalpaiguri  |    |   | 5,057   | 1 0     | 3,987   | 11   | 11 | 1,069   | 5 1  | ·07                   | •06                          |       |
| Bakarganj   |    |   | 6,192   | 3 0     | 5,104   | 1    | 0  | 1,088   | 2 0  | ·07                   | · 10                         | 4     |
| Burdwan     |    |   | 17,012  | 5 10    | 15,798  | 0    | 11 | 1,214   | 4 11 | .72                   | .77                          | +     |
| Jessore     |    |   | 6,699   | 3 0     | 5,344   | 0    | 0  | 1,355   | 3 0  | .22                   | ·11                          | 1.9%- |
| Rajshahi    |    |   | 4,871   | 9 0     | 3,502   | 9    | 0  | 1,369   | 0 0  | ·21                   | - 55                         | 4     |
| Nadia       | .1 |   | 6,665   | 6 0     | 4,847   | 7    | 0  | 1,817   | 15 0 | •45                   | · 69                         | 4     |
| Mymensingh  |    |   | 23,690  | 5 9     | 21,006  | 15   | 6  | 2,683   | 6 3  | · 68                  | 1.33                         | - OL- |
| Faridpur    |    |   | 4,497   | 0 0     | 1,735   | 1 3  | 0  | -2,761  | 13 0 | •44                   | 1.71                         | +     |
| Pabna       |    |   | 11,045  | 5 6     | e,998   | 3    | 6  | 4,047   | 2 0  | 2.42                  | - 39                         |       |
| Midnapur    |    |   | 19,853  | 3 9     | 13,555  | 5 14 | 0  | 6,297   | 5 9  | 1.70                  | .92                          | 0     |

Expenditure on Vaccination.

The reduction in the districts of Burdwan, Nadia, Rajshahi, Darjeeling, Dacca, Mymensingh, Faridpur, Bakarganj and Tippera where there was an excess of smallpox in 1928-29, compared with the previous year, was extremely injudicious. by 2,307 or 5.8 per cent. From the following table showing the number of deaths from smallpox, district by district, it will be observed that compared with the previous year, the mortality was reduced in every district except Burdwan, Nadia, Rajshahi, Darjeeling,

| Districts.                  | Small-po<br>duri | x deaths<br>ng— | 1 t 01   |
|-----------------------------|------------------|-----------------|----------|
| and an American Constraints | 1927-28.         | 1928-29.        | Increase |
| Burdwan                     | 1,040            | 1,115           |          |
| Birbhum                     | 1,024            | 267             |          |
| Bankura                     | 243              | 120             |          |
| Midnapur                    | 4,535            | 2,468           |          |
| Hooghly                     | 919              | 764             |          |
| Howrah                      | 1,511            | 295             |          |
| 4-Parganas                  | 2,179            | 859             | 1        |
| alcutta                     | 1,172            | 505             |          |
| Nadia                       | 680              | 1,024           |          |
| furshidabad                 | 2,977            | 2,363           | I        |
| essore                      | 386              | 189             | I        |
| Chulna                      | 126              | 43              | I        |
| tajshahi                    | 327              | 817             | I        |
| inajpur                     | e 1,594          | 1,466           | I        |
| alpaiguri                   | 69               | 57              | l        |
| Darjeeling                  | 21               | 86              | I        |
| Rangpur                     | 2,619 2,710      | 2,076           | I        |
| Bogra                       | 3,376            | 1,345<br>541    | l        |
| falds                       | 1,537            | 2,347           | I        |
| Danas                       | 2,642            | 8,376           | I        |
| formanianh                  | 3,304            | 4,304           | I        |
| Santdaura                   | 1,002            | 3,653           | I        |
| a kan manan i               | 201              | 278             | I        |
| hittagong                   | 1,639            | 3,429           | I        |
| Yoakhali                    | 730              | 313             | 1        |
| lippera                     | 1,150            | 2,920           |          |
| Total                       | 39,713           | 42,020          | ľ        |

Malda, and all the districts of Dacca and Chittagong Divisions, with the exception of Noakhali.

This reduction in smallpox mortality in as many as 16 out of the 27 districts in the province has been chiefly due to the persistently vigorous activities of the local bodies, the majority of whom, following the advice given to them by the Public Health Department, maintained during the year under review, intensive vaccination and revaccination campaigns in their respective jurisdictions, helped by their vaccination inspecting staff and the rural health organisations, who gave a good account of themselves by performing vaccinations with their own hands as detailed in the statement below. In this connection the anti-smallpox campaign started in the Malda district where about five hundred thousand vaccinations, mostly revacci-nations, were performed during the year deserves special notice; the campaign is still going on.

Both the Government special Inspectors of Vaccination were kept continually on the move and visited the districts of Malda, Mymensingh, Bakarganj, Faridpur, Nadia, Bankura, Dinajpur and Burdwan. I myself visited and advised the local authorities in Bogra, Rangpur, Mymensingh, Jessore, Midnapur and Murshidabad districts.

Statement showing the number of vaccinations performed by the Sanitary Inspectors and the Vaccination Inspecting Staff and the number of villages where smallpox was prevalent during 1928-29.

| and area and  | Number  | Number<br>of<br>villages  | Number   | perfor  | ber of operat<br>med by San<br>aspectors.  | ions<br>itary   | Number<br>of<br>Vaccina-<br>tion Ins-  | formed  | r of operations of the state of | eination   |  |
|---|---|---|--|---|--|---|--|---|--|--|--|
| Districts.  | villages<br>in the<br>district.   | attacked<br>with<br>small-<br>pox.                                    | Sanitary<br>Ins-<br>pectors.                             | Primary.  | Revacel-<br>nation.  | Total.  | pectors<br>and<br>Sub-Ins-<br>pectors. | Primary.  | Revacci-<br>nation.  | Total.   |  |
| Burdwan<br>Birbhum<br>Birbhum<br>Bankura<br>Midnapur<br>Googhiy   | 2,817<br>2,302<br>4,003<br>10,351<br>2,197  | 452<br>122<br>76<br>1,145   | 14<br>5<br>4<br>18                                       | 3,283<br>516<br>1,080<br>1,550  | 1,641<br>1,342<br>1,527<br>5,167<br>No. Info   | 4,924<br>1,858<br>2,607<br>6,717<br>fmation av                                | 3<br>2<br>2<br>5<br>5                  |   | 1,469<br>296<br>1,214  | 2,154<br>343<br>1,955  |  |
| ioogniy   | 2,197<br>2,353<br>2,353<br>1,974<br>3,613<br>2,011<br>4,487<br>6,612<br>7,222<br>4,102<br>2,780 | 22<br>264<br>134<br>683<br>34<br>37<br>282<br>340<br>83<br>620<br>Not | 7<br>17<br>14<br>8<br>19<br>17<br>6<br>8<br>8<br>14<br>5 | 488<br>2,018<br>1,330<br>1,731<br>283<br>413<br>405<br>622<br>127         | 819<br>3,015<br>10,891<br>7,815<br>4,005<br>541<br>790<br>754<br>1,218<br>987<br>395 | 1,3075,03312,2219,5464,8267421,0821,1671,6241,6241,609522                     | 210 G 4 0 14 0 19 19 4 01              | 204<br>944<br>884<br>2,338<br>Nil<br>80<br>79<br>2,140<br>385<br>140<br>291 | 98<br>1,283<br>5,986<br>18,584<br>N.1<br>568<br>841<br>4,027<br>1,544<br>244<br>446  | 302<br>2,222<br>6,870<br>20,925<br>Nil<br>648<br>920<br>6,165<br>1,925<br>884<br>735 |  |
| abna<br>falda<br>Jacea<br>Iymensingh<br>aridpur<br>aridpur<br>akarganj<br>hittagong<br>ioakhali<br>Typera | 2,539<br>2,239<br>4,737<br>7,354<br>3,363<br>2,990<br>870<br>1,719<br>4,018                     | known,<br>169<br>181<br>650<br>448<br>476<br>213<br>138<br>200<br>296 | 9<br>6<br>20<br>19<br>13<br>16<br>8<br>14<br>14          | 482<br>471<br>4,202<br>2,696<br>2,132<br>1,407<br>2,439<br>4,681<br>4,449 | $1,326\\ 6,044\\ 7,743\\ 2,455\\ 4,235\\ 1,703\\ 2,098\\ 10,682\\ 8,095$             | $\substack{1,808\\6,515\\11,945\\5,151\\6,367\\3,110\\4,537\\15,363\\12,544}$ | 0101-05 <b>4</b> 4 10 01 03            | 266<br>29<br>331<br>1,074<br>2,466<br>1,360<br>760<br>939<br>3,518          | $\begin{array}{r} 349\\ 1,939\\ 2,264\\ 2,953\\ 3,541\\ 824\\ 505\\ 2,767\\ 6,094 \end{array}$   | 613<br>1,963<br>2,593<br>4,027<br>6,007<br>2,184<br>1,263<br>3,706<br>9,613          |  |

11. Inspections.—The following table shows the details of inspections by the various inspecting agencies:—

returned a percentage of success above 90 in primary cases, while in revaccination the highest 87.7 and 81.2 were

| Inspecting agencies.   |                              | ge of ins-<br>to total<br>accinated. | Percentag<br>found suc<br>total m<br>inspec | umber               | report  | e of success<br>ted by |
|--|------------------------------|--------------------------------------|---|---------------------|---------|------------------------|
| internit ovi som vinister<br>niternit ovi som vinister<br>solaringer vinister                                  | Primary<br>vacci-<br>nation. | Revacci-<br>nation.                  | Primary<br>vacci-<br>nation.                | Revacci-<br>nation. | vaccii  | nators.                |
| (1) District Health Officers and<br>Civil Surgeons of Darjeeling<br>and Chittagong Hill Tracts                 | 2.9                          | 1.1                                  | 96-1  | 66-3                | 92.5    | 59-05                  |
| (2) Municipal Superintendents of<br>Vaccination and Municipal<br>Sanitary Inspectors                           | 1.9                          | 1.9                                  | 92.4  | 36.7                |         | ion                    |
| (3) Assistant Superintendents of<br>Vaccination, Rural Sanitary<br>Inspectors and Assistant<br>Health Officers | 27.4                         | 12.2                                 | 97.2  | •<br>51·1           | Primary | Revaccination          |

Comparatively high percentages of primary vaccination inspections were returned by the District Health Officers of Hooghly (36.9), Rangpur (17.6) and Malda (10.07) and of revaccinations by those of Rangpur (7.8) Dinajpur (7.4), Burdwan (5.5). The and Health Officer of Bogra district did not inspect a single vaccination while the District Health Officer of Mymensingh inspected only 04 per cent. primary and 01 per cent. revaccinations. The Municipal Superintendents and Sanitary Inspectors of Dinajpur and Bogra returned the highest percentages, 80.9 for primary and 89.6 for revaccination inspections, respectively, while only 4.7 per cent. primary and 3.7 revaccinations were inspected by these officers in Birbhum and Bakarganj municipalities, respectively. A hundred per cent. success to total number of primary vaccinations inspected, was returned each by the District Health Officers of Nadia, Murshidabad. Khulna and the Civil Sur-geon of Darjeeling, and percentages of 97.6 and 93.1 in revaccinations, by those of Rangpur and Murshidabad, respec-tively. Turning to Municipal Inspecting Officers, a cent. per cent. success in primary cases was recorded in Birbhum. Jessore. Jalpaiguri, Faridpur and Chittagong and 74.3 and 73.3 in revaccinations in Hooghly and Burdwan, respectively. In Darjeeling alone, the success was found as low as 4.8 per cent. The rural inspecting staff of all the districts except Bogra, Malda and Bakarganj recorded in Rangpur and Bankura, respectively. The lowest percentages were found by the rural staff of Bogra, 44.6 in primary cases and 27.6 in revaccinations. The vaccinators of all the districts but Bogra, Mymensingh and Noakhali, returned a success of above 90 per cent. in primary cases. In revaccinations, the highest percentages were noted by the vaccinators of Dinajpur, 73.6 and Rajshahi 71.9, and the lowest, 19.1 in Calcutta.

12. Post vaccinal complications .---With the introduction of the linear method of vaccination, the risk of sepsis has been reduced to a minimum. A few cases of Impetigo Contagiosa have been reported to have occurred after a long interval after vaccination and have been found on investigation to have no connection with the latter; in fact their occurrence in vaccinated cases generally coincides in point of time with the vaccination season and their number as compared with the total number of vaccinations performed has been so infinitesimal as not to justify any imputation against the purity of the lymph. Had the lymph employed anything to do with it, their number would have been far in excess of what it has been according to the reports of the various District Health Officers. Besides, a few cases of the same disease have been observed in unvaccinated persons in Calcutta. No case of post vaccinal encephalitis has ever been reported in this province.

13. Bengal Vaccine Depot.-Out of a total of 3,078 calves vaccinated during the year, including 58 buffalo calves, pulp was collected from 2,674, 329 being discharged as unfit for collection, 16 died and 59 carried over at the close of the year. The total output of lymph was 4,600,152 grains against 3,340,098 grains in the previous year and the average yield of pulp per calf was 282.48 grains against 250.76 in 1927-28. The collection from each buffalo calf was however 761.3 grains on an average. Out of a total stock of 4,848,263 grains made up of 4,600,152 grains manufactured during the year, 170,911 grains representing the previous year's balance and 77,200 grains in 15,440 capillary tubes purchased from Germany, 4,563,154 grains were issued against 3,574,274 grains in the previous year, leaving a closing balance of 284,809 grains. 123 stocks of lymph all chloro-formed, were bottled, sampled and analysed bacteriologically at the Bengal Public Health Laboratory. Every grain of lymph issued from the depot was thus not only examined bacteriologically but tested for its potency on calves and human arms. Regeneration of lymph was done through rabbits, buffaloes and ideal calves. The supply being made to individual vaccinators, more than 200 packets had to be despatched daily throughout the season, and the services of 2 depot assistants besides the 2 clerks had to be utilised for this purpose. The total sale of lymph during the year amounted to Rs. 8,551-6-0 against Rs. 7,876-3-0 in the previous year. total expenditure was The Rs. 42,051-14-0 against Rs. 42,491-7-0 in the previous year. In addition to the manufacture of lymph, the services of the Superintendent and of the depot assistant S. N. Mazumdar were on many occasions requisitioned for human vaccination both at the Writers' Buildings as well as in other places. More than 250 cases were also vaccinated by them at the Calcutta Health Exhibition. Regular courses of lectures and demonstrations were given by the Superintendent at the two sessions of the Sanitary Inspectors' training class and to the senior students of the Calcutta Medical College. Special demonstrations and lectures were also given for about a week at the Calcutta Health Exhibition.

From the table below, it will be seen how the quantity of lymph manufactured at the depot has increased and the average yield of pulp per calf improved since 1902-03-the year of the appointment of the present Superintendent in charge of the Vaccine Depot. The quantity has in fact increased 46-fold during the last 26 years, and the average yield of pulp per calf about five times, the average output of lymph during the present triennium being 3,540,238 grains against 2,046,856 grains in the previous one. This is indeed very satisfactory, but on the other hand, much difficulty is experienced in procuring the required number of calves, although the supply certainly improved with the has enhanced hire according to the new contract. The markets on this side have been quite exhausted and unless some other source of supply hitherto undiscovered is tapped, it will be next to impossible to cope with the ever-increasing demand for lymph in connection with the intensive campaigns of vaccination organised by every local body to meet the approaching apprehended pandemic.

|         | Years. | Quantities<br>manu-<br>factured. | Average<br>yield<br>of pulp<br>per calf. |
|---------|--------|----------------------------------|--|
| Recurs  |        | Grains.                          | Grains.                                  |
| 1902-03 |        | <br>103,470                      | 59.81                                    |
| 1923-24 |        | <br>1,694,180                    | 168 -06                                  |
| 1924-25 |        | <br>1,975,780                    | 182 -14                                  |
| 1925-26 |        | <br>2,470,607                    | 204 - 29                                 |
| 1926-27 |        | <br>2,680,464                    | 201 -09                                  |
| 1927-28 |        | <br>3,340,098                    | 250 - 76                                 |
| 1928-29 |        | <br>4,600,152                    | 282 -48                                  |

14. General remarks.—With the near approach of the apprehended pandemic forecasted six years back by Dr. Bentley, nearly every district board acting on the wise precept "forewarned is forearmed" has been very busy throughout the year organising its staff and preparing its defences against smallpox by starting intensive campaigns of vaccination and revaccination wherever an epidemic has shown its face. It is, therefore, confidently expected that, whenever the pandemic comes, if it ever comes at all, it will not find the province unprepared. With the noble example of Malda before it, where helped by the District Magistrate and his subordinate officers, the District Health Officer managed to vaccinate more than half of its population during the course of the year, every district is expected to endeavour, at least, not to lag behind if not to outpace it. But some sort of temporary emergency legislation to enforce revaccination and to amend the prosecution laws under the current Vaccination Act, seems to me to be a sine qua non of success, without which the revaccination of adults and primary vaccination of infants even within the prescribed limit of age during the course of the pandemic will be next to impossible. Happily, the question of satisfactory supervision, as necessary as the performance of vaccination itself, has been solved by the appointment of Sanitary Inspectors to every thana under the rural organisation scheme, which is

practically complete. The Government supervision is still a weak point, since with only two Inspectors of Vaccination at my disposal, it is absurd to think of the Public Health Department to keep a strict watch over every loophole through which the pandemic might penetrate the province. It is, therefore, essential that one such supervisor should be appointed to every division as has been suggested by me off and on in these reports.

### M. E. SUFI, B.A., D.P.H.,

### L.R.C.P. & S.E., L.F.P.S.G.,

Assistant Director of Public Health in charge of Vaccination and Vital Statistics.

### TREMETATE

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Statistical Return

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### STATEMENT

Showing Particulars of vaccination performed

|  |  |                |  | o rural areas<br>ts according<br>of 1921.  | ation per  | r of vaccina-                                     | Total numb   | er of persons v   | accinated.  | r of persons<br>y each vacci-  | Primary   |
|--|--|----------------|--|--|--|---|--|---|---|--|---|
| Number.                                      |  | District,      |  | Population of the ri<br>of the districts a<br>to the Census of 1                               | Average population<br>square mile.                   | Average number of<br>tors employed t<br>the year. | Male   | Female.   | Total.  | Average number of<br>vaccinated by e-<br>nator.                      | Total.  |
| 1  |  | 2              |  | 3  | 4  | 5   | 6  | 7   | 8   | 9  | 10  |
|  | Durd   | wan Division.  |  |  |  |   |  |   |   |  |   |
| 1000 400 01-                                 | Burdwan<br>Asansol Mining<br>Birbhum<br>Bankura<br>Midnapur<br>Hooghly<br>Howrah       | Settlement     | . Paid   | 1,343,185<br>838,655<br>964,487<br>2,595,071<br>900,802<br>778,893                             | 500<br><br>369<br>516<br>780<br>1,502                | 30<br>14<br>20<br>44<br>132<br>20<br>24           | 53,108<br>14,036<br>34,655<br>37,635<br>165,939<br>30,981<br>31,823            | 35,587<br>10,435<br>25,346<br>27,050<br>103,045<br>16,258<br>14,084           | $\begin{array}{r} 88,695\\ 24,471\\ 60,001\\ 64,685\\ 268,984\\ 47,239\\ 45,907\end{array}$ | 2,956<br>1,748<br>3,000<br>1,470<br>2,037<br>2,362<br>1,912          | 47,512<br>14,051<br>30,535<br>41,617<br>96,063<br>23,699<br>26,700            |
|  |  | Total .        | . Paid   | 7,421,093  | 540  | 284   | 368,177  | 231,805   | 599,982   | 2,112  | 280,177   |
| 8<br>9<br>10<br>11<br>12                     | Preside<br>24-Parganas<br>Nadia<br>Murshidabad<br>Jessore<br>Khulna                    |                | Paid<br>Paid<br>Paid<br>Paid<br>Paid                         | 1,998,318<br>1,390,704<br>1,182,983<br>1,700,924<br>1,421,116                                  | 527<br>507<br>566<br>587<br>301                      | 156<br>46<br>59<br>101<br>53                      | 105,292<br>64,915<br>211,999<br>107,082<br>84,167                              | 69,445<br>43,977<br>149,744<br>71,315<br>- 63,206                             | 174,737<br>108,892<br>361,743<br>178,397<br>147,373   | 1,120<br>2,365<br>6,131<br>1,766<br>2,781                            | 108,916<br>55,685<br>55,460<br>42,713<br>59,790                               |
|  |  | Total .        | . Paid   | 7,694,045  | 492  | 415   | 578,455  | 397,687   | 971,142   | 2,340  | 322,564   |
| 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | Rajshahi<br>Dinajpur<br>Jalpajguri<br>Darjeeling<br>Rangpur<br>Bogra<br>Patna<br>Malda |                | Paid<br>Paid<br>Paid<br>Paid<br>Paid<br>Paid<br>Paid<br>Paid | 1,457,037<br>1,687,328<br>921,749<br>254,045<br>2,482,722<br>1,032,300<br>1,344,633<br>955,830 | 557<br>428<br>314<br>215<br>713<br>751<br>809<br>523 | 48<br>88<br>112<br>120<br>120<br>127<br>76<br>65  | 95,050<br>93,083<br>40,888<br>18,904<br>158,407<br>49,421<br>70,830<br>287,309 | 60,881<br>57,336<br>21,471<br>15,870<br>62,444<br>24,158<br>42,742<br>211,120 | 155,931<br>150,419<br>62,359<br>34,774<br>220,851<br>73,579<br>113,572<br>408,429           | 3,248<br>2,212<br>2,011<br>1,391<br>1,840<br>2,537<br>1,555<br>7,668 | 24,488<br>84,977<br>27,010<br>10,034<br>110,935<br>30,915<br>57,666<br>29,771 |
|  |  | Total .        | . Paid   | 10,135,644   | 534  | 459   | 813,892  | 496,022   | 1,309,914   | 2,853  | 375,796   |
| 0101004                                      | Dacca<br>Mymensingh<br>Faridpur<br>Bakarganj   |                | Paid<br>Paid<br>Paid<br>Paid                                 | 2,975,915<br>4,703,249<br>2,202,783<br>2,563,849   | 1,097<br>759<br>934<br>734                           | 96<br>238<br>53<br>55                             | 163,630<br>325,246<br>99,561<br>125,680  | 110,094<br>193,884<br>59,517<br>81,074  | 273,724<br>519,130<br>159,078<br>206,754  | 2,851<br>2,181<br>3,001<br>3,759                                     | 142,341<br>269,646<br>65,904<br>166,633                                       |
|  |  | Total          | Paid   | 12,445,796   | 845  | 442   | 714,117  | 444,569   | 1,158,686   | 2,619  | 644,524   |
| 256778                                       | Chittagong<br>Noakhali<br>Tippera<br>Chittagong Hil                                    |                | . Paid<br>. Paid<br>. Paid<br>. Paid                         | 1,570,760<br>1,465,071<br>2,678,627<br>173,243   | 630<br>968<br>1,051<br>34                            | 60<br>45<br>116<br>11                             | 116,933<br>159,188<br>226,822<br>10,809  | 69,390<br>78,295<br>152,086<br>8,795  | 186,323<br>237,483<br>378,908<br>19,604   | 3,105<br>5,277<br>3,263<br>1,782                                     | 83,091<br>89,286<br>134,580<br>7,846  |
|  |  | Total .        | . Paid   | 5,887,701  | 503  | 232   | 513,752  | 308,566   | 822,318   | 3,544  | 314,803   |
|  | Total of the Be  | ngal President | cy Paid  | 43,584,279   | 578  | 1,832   | · 2,983,393  | 1,878,649   | 4,862,042   | 2,653  | 1,937,864   |

Sum

|  |      | Total numbe<br>vacci | r of persons<br>nated. | Total num<br>tion p | aber of opera-<br>erformed. |
|--|------|----------------------|------------------------|---------------------|-----------------------------|
|  |      | Primary.             | Re-vaccina-            | Primary             | Re-vaccina-                 |
| District Boards, Municipalities, Provincial Government, Calcu<br>Corporation and Asansol Mines Board of Health | itta | 2,024,705            | 3,134,310              | 2,026,734           | 3,135,883                   |
| Jails, Cantonments, Dispensaries, Railways, Steamers, T<br>Gardens and Factories                               | Dea- | 24,070               | 93,319                 | 24,093              | 93,319                      |
| Total  |      | 2,048,775            | 3,227,629              | 2,050,827           | 3,229,205                   |

# No. I. STATE

### in the districts of Bengal during the year 1928-29.

|  | vaccina   | tion.  |   | Re-vi  | accination   |   | Percent<br>successfu<br>in which<br>were k            | l cases<br>results   | Persons successfully vaceina-<br>ted per 1,000 of populations       | of unl<br>ca                                       | ntage<br>known<br>ses to<br>cases.   | Average<br>number of<br>successivaccinated<br>the pro-<br>five y             | f persons<br>fully<br>d during<br>vious<br>rears.  | Average<br>numbe<br>deaths<br>small-;<br>during th<br>vious five | r of<br>from<br>pox<br>se pre     |
|--|---|--|---|--|--|---|---|--|---|--|--|--|--|--|-----------------------------------|
|  | Successful.   |  |   |  |  | 1   |   | ation.   | ccessf<br>,000,   |  |  |  | 1,000<br>ula-  |  | 000                               |
| Under one<br>year.   | One year<br>and under<br>six years.   | Total of all ages.   | Unknown.  | Total.   | Successful.  | Unknown.  | Frimary.  | Re-vactination   | Persons su<br>ted per l   | Primary.   | Re-vaccina-<br>tion.   | Number.  | Ratio per 1,000<br>of popula-<br>tion.   | Number.  | Ratio per 1,000                   |
| 11   | 12  | 13   | 14  | 15   | 16   | 17  | 18  | 19   | 20  | 21   | 22   | 23   | 24   | 25   | 26                                |
| 4.136<br>4 441<br>4.272<br>8,923<br>9,031<br>3,086<br>4,978              | 27,848<br>8,941<br>22,422<br>29,983<br>56,939<br>18,080<br>19,294                           | 44,616<br>14,040<br>29,449<br>40,407<br>87,704<br>23,036<br>25,890           | 329<br>274<br>340<br>5,554<br>147<br>326                    | 41,185<br>10,420<br>29,466<br>23,068<br>172,921<br>23,540<br>19,207                              | 19,676<br>6,883<br>16,620<br>10,046<br>92,257<br>1,226<br>9,051              | 1,522<br>172<br>2,519<br>1,972<br>32,026<br>1,547<br>3,823              | 93-9<br>99-9<br>96-4<br>97-08<br>91-3<br>97-1<br>96-9 | $47 \cdot 7$<br>$66 \cdot 05$<br>$56 \cdot 4$<br>$43 \cdot 5$<br>$53 \cdot 3$<br>$68 \cdot 9$<br>$47 \cdot 1$                                | 63 · 3<br>54 · 9<br>52 · 3<br>69 · 3<br>43 · 5<br>44 · 8            | -69<br>-89<br>5-7<br>-62<br>1-2                    | 3.6<br>1.6<br>8.5<br>18.5<br>18.5<br>19.9                                  | 85,991<br>45,160<br>48,624<br>151,966<br>31,679<br>31,284                    | 64.005<br>53.8<br>50.4<br>58.5<br>35.1<br>40.1   | 1,038<br>676<br>286<br>2,016<br>647<br>1,229                     | .7 .837776                        |
| 38,867   | 183,507   | 265,142  | 6,970   | 319,807  | 170,759  | 43,581  | 94.6  | 53-3   | 58.7  | 2.4  | 13.6   | 394,704  | 53.1   | 5,893  | -8                                |
| 15,739<br>18,235<br>19,365<br>5,422<br>12,256<br>71,017                  | 72,633<br>32,495<br>29,767<br>33,257<br>36,575<br>204,727                                   | 102,809<br>52,893<br>52,278<br>41,870<br>58,821<br>308,671                   | 2,468<br>1,158<br>1,066<br>194<br>327<br>5,213              | 65,821<br>53,207<br>306,283<br>135,686<br>87,801<br>648,798                                      | 39,439<br>34,497<br>167,417<br>80,535<br>46,045<br>367,933                   | 4,484<br>4,938<br>47,068<br>14,593<br>10,667<br>81,750                  | 94-3<br>94-9<br>94-2<br>98-3<br>98-3<br>95-7          | 59 · 9<br>64 · 8<br>54 · 6<br>59 · 3<br>52 · 4<br>56 · 7   | 71 · 1<br>62 · 8<br>185 · 7<br>71 · 9<br>73 · 7<br>87 · 9           | 2.2<br>2.08<br>1-9<br>.45<br>.54<br>1-6            | 6-8<br>9-2<br>15-3<br>10-7<br>12-1<br>12-6                                 | 97,323<br>61,370<br>72,668<br>63 037<br>60,677<br>355,075                    | 49<br>44 · 1<br>61 · 4<br>37 · 06<br>42 · 7<br>46 · 1  | 1,773<br>316<br>1,425<br>268<br>82<br>3,864                      | -9<br>-2<br>1-2<br>-1<br>-0<br>-5 |
| 9,257<br>14,890<br>12,659<br>3,656<br>11,039<br>2,895<br>7,077<br>12,529 | $13,652 \\ 49,248 \\ 10,618 \\ 4,343 \\ 80,755 \\ 17,795 \\ 4,119 \\ 13,557 \\ \end{array}$ | 23,892<br>77,922<br>25,577<br>9,291<br>102,896<br>25,972<br>54,082<br>27,275 | 381<br>2,098<br>20<br>640<br>4 946<br>2,949<br>858<br>1,725 | $131,473 \\ 65,442 \\ 36,301 \\ 24,876 \\ 109,923 \\ 42,664 \\ 55,906 \\ 468,658 \\ \end{cases}$ | 94,562<br>48,211<br>15,619<br>9,346<br>90,353<br>14,906<br>27,847<br>323,228 | 13,645<br>4,823<br>2,548<br>7,382<br>7,132<br>11,768<br>6,531<br>94,594 | 97-5<br>91-7<br>92-6<br>92-7<br>84-<br>93-6<br>91-6   | $\begin{array}{c} 71 \cdot 9 \\ 73 \cdot 6 \\ 43 \cdot 03 \\ 37 \cdot 5 \\ 82 \cdot 1 \\ 34 \cdot 9 \\ 49 \cdot 8 \\ 68 \cdot 9 \end{array}$ | 81 · 2<br>74 · 7<br>44 · 6<br>73 · 6<br>39 · 6<br>23 · 7<br>306 · 7 | 1.52.40.076.34.49.51.45.7                          | $\begin{array}{c} 10:3\\7:3\\7:02\\29:6\\6:4\\27:5\\11:6\\20:1\end{array}$ | 70,888<br>90,451<br>33,479<br>13,100<br>89,586<br>35,832<br>74,895<br>62,067 | $59 \cdot 2$<br>$53 \cdot 6$<br>$36 \cdot 3$<br>$51 \cdot 5$<br>$36 \cdot 9$<br>$34 \cdot 8$<br>$55 \cdot 7$<br>$64 \cdot 6$ | 146<br>549<br>201<br>12<br>939<br>1,073<br>1,686<br>501          | 1<br>39<br>00<br>10<br>1-9<br>5   |
| 74,002   | 194,087   | 346,907  | 13,617  | 935,243  | 624,072  | 148,424   | 92.3  | 66.7   | 95.7  | 3-6  | 15.8   | 470,298  | 46.4   | 5,107  | - 5                               |
| 9,143<br>7,795<br>3,525<br>2,050   | 103,158<br>147,534<br>41,969<br>80,185  | 130,964<br>234,788<br>63,287<br>157,746                                      | 5,825<br>15,735<br>1,400<br>4,332                           | 131,383<br>249,484<br>93,187<br>40,121   | 65,537<br>158,722<br>40,869<br>25,627  | 16,343<br>29,202<br>15,795<br>2,910                                     | 92-<br>87-07<br>99-05<br>94-6                         | 49-8<br>63-6<br>43-8<br>63-8   | 66-03<br>83-5<br>47-2<br>71-5                                       | 4.09<br>5.8<br>2.1<br>2.6                          | 12:4<br>11:7<br>16:9<br>7:2  | 122,708<br>294,098<br>67,919<br>96,745                                       | 39·2<br>62·4<br>30·7<br>46·5   | 1,060<br>1,353<br>342<br>102                                     | 3014                              |
| 22,513   | 372,846   | 586,785  | 27,292  | 514, 175   | 290,755  | 64,250  | 91-04   | 56.5   | 70.4  | 4.2  | 12.4   | 581,470  | 46.7   | 2,857  | -2                                |
| 7,021<br>9,129<br>10,243<br>366  | 67,755<br>51,371<br>96,507<br>5,677   | 79,508<br>73,291<br>125,288<br>7,771   | 1,056<br>11,966<br>4,403<br>19                              | 103,232<br>148,259<br>246,078<br>11,758  | 41,393<br>56,509<br>171,386<br>5,906   | 12,698<br>52,469<br>22,645<br>257                                       | 95-6<br>82-08<br>93-08<br>99-04                       | 40 · 1<br>38 · 1<br>69 · 6<br>50 · 2   | 76-9<br>88-5<br>110-7<br>78-9                                       | $1 \cdot 2 \\ 13 \cdot 4 \\ 3 \cdot 2 \\ \cdot 24$ | 12·3<br>35·3<br>9·2<br>2·1   | 80,000<br>81,858<br>150,317<br>8,004   | 50-9<br>55-7<br>56-7<br>46-2   | 791<br>325<br>440  | 1 1.44                            |
| 26,759   | 221,310   | 285,858  | 17,444  | 509,327  | 275,194  | 88,069  | 90.8  | 54.02  | 95-3  | 5.5  | 17.2   | 320,179  | 54-4   | 1,556  | -2                                |
| 233,158  | 1,176,477   | 1,793,363  | 70,536  | 2,927,350  | 1,728,713  | 426,074   | 92.5  | 59.05  | 80-7  | 3.6  | 14.5   | 2,121,726  | 48.6   | 19,277   |                                   |

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| Percentage<br>cases in wi<br>were k | e of successful<br>hich results<br>nown. | persons va-                   | number of<br>ccinated by<br>ccinator.           | Number of<br>successfully<br>nated |                               | Rates of<br>successful<br>vaccinations | Total cost of  | Average cost<br>of each |
|-------------------------------------|--|-------------------------------|---|------------------------------------|-------------------------------|--|----------------|-------------------------|
| Primary.                            | Re-vaccina-                              | Vaccina-<br>tors<br>employed. | Persons<br>vaccinated<br>by each<br>vaccina or. | Under one<br>year.                 | One year<br>and<br>six years. | per 1,000 of<br>population.            | department.    | successful<br>case,     |
| 92-4                                | 57.07                                    | 2,046                         | 2,522   | 262,982                            | 1,222,631                     | 79-7                                   | 4,84.635 10 11 | 0 1 7                   |
| 87.8                                | 37-4                                     | No statisti                   | cs available.                                   | nji                                | nil                           | ;                                      |                |                         |
| 92.4                                | 56.5                                     |                               |   | 262,982                            | 1,222,631                     |  |                |                         |

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### STATEMENT

Showing the cost of vaccination in the districts of

| -         |  | -                       |            |                     |                        |                                |              |             |        | -         |           | - 1       |             |                                |
|-----------|--|-------------------------|------------|---------------------|------------------------|--------------------------------|--------------|-------------|--------|-----------|-----------|-----------|-------------|--------------------------------|
|           | Circles and districts.                 | supervising             | Salary.    | supervising         | Pay.                   | nators.                        | . Pay.       | vaccina-    |        |           | Pay.      |           | Pay.        | Total pay of<br>establishment. |
| " Number. | 2                                      | a Spperior<br>officers. | 4          | es Indian officers. | 6                      | <sup>14</sup> Paid vaccinators | 8            | to Licensed | I Pay. | E Clerks. | 12        | te Peons. | 14          | 15                             |
| -         |  |                         |            |                     |                        |                                | Rs. A. P.    |             | -      |           | -         |           | Rs. A. P.   | Rs. A. P.                      |
|           | Burdstan Division.                     |                         |            | 10                  | Rs. A. F.<br>2.885 0 0 | 44                             | 13,221 6 10  |             |        |           |           | 2         | 324 0 0     | Rs. A. P.<br>16,430 6 10       |
| 1         | Burdwan                                |                         |            | 3                   | 1,086 11 0             | 20                             | 3,184 0 8    |             |        |           |           |           |             | 4,270 11 8                     |
| 23        | Birbhum<br>Bankura                     |                         |            | 2                   | 1,130 0 0              | 44                             | 3,116 5 0    |             |        |           |           |           |             | 4,246 5 0                      |
| 4         | Bankura<br>Midnapur                    |                         |            | 6                   | 2,445 12 1             | 132                            | 12,769 5 6   |             |        |           |           |           |             | 15,215 1 7                     |
| 5         | Hooghly                                |                         |            | 3                   | 1,151 0 0              | 20                             | 2,020 14 0   |             |        | 201       |           |           |             | 3,171 14 0                     |
| 6         | Howrah                                 |                         |            | 2                   | 1,978 2 0              | 24                             | 4,257 12 6   |             |        |           |           |           |             | 6,235 14 6                     |
|           | Total                                  |                         |            | 26                  | 10,676 9 1             | 284                            | 38,569 12 6  |             |        |           |           | 2         | 324 0 0     | 49,570 5 7                     |
|           |  |                         |            |                     |                        |                                |              |             |        |           |           |           |             |                                |
| -         | Presidency Division.                   |                         |            | 5                   | 3,773 5 4              | 156                            | 10,816 2 0   |             |        |           |           |           |             | 14,589 7 4                     |
| 7         | 24-Parganas<br>Bengal Vaccine Depot    | **                      |            | 8                   | 10,993 11 0            |                                | 10,010 = 0   |             |        | 2         | 1,581 4 0 | 2         | 374 13 0    | 12,949 12 0                    |
| 8         |  |                         |            | 18                  | 26,950 0 0             | 60                             | 42,310 0 0   |             |        |           |           | 30        | 5,580 0 0   | 74,840 0 0                     |
| 10        | Nadia                                  |                         |            | 6                   | 2,588 1 0              | 46                             | 4,557 14 0   |             |        |           |           |           |             | 7,145 15 0                     |
| 11        | Murshidabad                            |                         |            | 5                   | 2,160 0 0              | 59                             | 11,379 1 0   |             |        |           |           |           |             | 13,539 1 0                     |
| 12        | Jessore                                |                         |            | 2                   | 1,059 6 0              | 101                            | 7,969 1 0    |             |        |           |           |           |             | 9,028 7 0                      |
| 13        | Khulna                                 |                         |            | 3                   | 1,871 0 0              | 53                             | 2,814 15 6   |             |        |           |           |           |             | 4,685 15 6                     |
| See       | Total                                  |                         |            | 47                  | 49,395 7 4             | 475                            | 79,847 1 6   |             |        | 2         | 1,581 4 0 | 32        | 5,954 13 0  | 136,778 9 10                   |
|           |  |                         |            |                     |                        |                                |              |             |        |           |           |           | 10 100      |                                |
|           | Rajshahi Dirision.<br>Rajshahi         |                         |            | 3                   | 1,440 0 0              | 48                             | 5,781 1 0    |             |        |           |           |           |             | 7,221 1 0                      |
| 14<br>15  | -                                      |                         |            | 3                   | 1,510 0 0              | 68                             | 10,252 11 0  |             |        |           |           |           |             | 11,762 11 0                    |
| 16        | Jalpaiguri                             |                         |            | 2                   | 1,104 3 8              | 31                             | 4,168 14 0   |             |        |           |           |           |             | 5,273 1 8                      |
| 17        | Darjeeling (a)                         |                         |            | 3                   | 1,590 0 0              | 25                             | 2,981 3 0    |             |        |           |           |           |             | 4,571 3 0                      |
| 18        | Rangpur (b)                            |                         |            | 5                   | 3,459 12 0             | 120                            | 10,596 8 0   |             |        |           |           |           |             | 14,056 4 0                     |
| 19        | Bogra                                  |                         |            | 2                   | 1,020 0 0              | 29                             | 3,679 11 6   |             |        |           |           |           |             | 4,699 11 6                     |
| 20        | Pabna                                  |                         |            | 3                   | 1,657 12 0             | 73                             | 6,734 15 0   |             |        |           |           |           |             | 8,392 11 0                     |
| 21        | Malda (c)                              |                         |            | 3                   | 1,486 10 6             | 65                             | 14,092 13 1  |             |        |           |           |           |             | 15,579 7 7                     |
|           | Total                                  |                         |            | 24                  | 13,268 6 2             | 459                            | 58,287 12 7  |             |        |           |           |           |             | 71,556 2 9                     |
|           | David District                         |                         |            |                     |                        |                                |              |             |        |           |           |           |             | 12592                          |
| 22        | Daera Division.<br>Daeca               |                         |            | 5                   | 2,166 3 1              | 96                             | 5,629 15 4   |             |        |           |           |           |             | 7,796 2 5                      |
| 23        | Mymensingh                             |                         |            | 6                   | 3,256 14 0             | 238                            | 23,116 13 6  |             |        |           |           |           |             | 26,373 11 6                    |
| 24        | Faridpur                               |                         |            | 5                   | 2,100 0 0              | 53                             | 3.042 15 0   |             |        |           |           |           |             | 5,142 15 0                     |
| 25        | Bakarganj                              |                         |            | 4                   | 1,755 5 0              | 55                             | 6,164 11 0   |             |        |           |           |           |             | 7,920 0 0                      |
|           | Total                                  |                         |            | 20                  | 9,278 6 1              | 442                            | 37,954 6 10  |             |        |           |           |           |             | 47,232 12 11                   |
|           | Chittagong Division.                   |                         |            |                     |                        |                                |              |             |        |           |           |           |             | in the                         |
| 26        | Chittagong                             |                         |            | 3                   | 1,465 13 0             | 60                             | 9,534 0 0    |             |        |           |           |           |             | 10,999 13 0                    |
| 27        | Noakhali                               |                         |            | 3                   | 1,395 0 0              | 45                             | 5,163 8 0    |             |        |           |           |           |             | 6,558 8 0                      |
| 28        | Tippera                                |                         |            | 3                   | 1,320 0 0              | 116                            | 7,274 9 0    |             |        |           |           |           |             | 8,594 9 0                      |
| 29        | Chittagong Hill Tracts                 |                         |            | 3                   | 1,680 0 0              | 11                             | 1,654 15 0   |             |        |           |           |           |             | 3,334 15 0                     |
|           | Total                                  |                         |            | 12                  | 5,860 13 0             | 232                            | 23,627 0 0   |             |        |           |           |           |             | 29,487 13 0                    |
|           | Total of the Vaccination<br>Circles.   |                         |            | 129                 | 88,479 9 8             | 1,892                          | 2,38,286 1 5 |             |        | 2         | 1,581 4 0 | 34        | 6,278 13 0  | 3,34,625 12 1                  |
| 30        | Vaccination Bureau                     | 1                       | 14,300 0 0 | 2                   | 4,150 0 0              |                                |              |             |        |           |           |           |             | 18,450 0 0                     |
|           | Total of the Presidency                | 1                       | 14,300 0 0 | 131                 | 92,629 9 8             | 1,892                          | 2,38,286 1 5 | -           |        | 2         | 1,581 4 0 | 34        | 6,278 13 0  | 3.53,075 12 1                  |
| 31        | Municipalities                         |                         |            | 2                   | 1,398 0 0              | 154                            | 30,757 1 0   |             |        |           |           | 2         | 504 0 0     | 32,659 1 0                     |
| 32        | Railways, Tea gardens<br>and factories |                         |            |                     |                        |                                |              |             |        |           |           |           |             |                                |
| 33        | Jalls                                  |                         |            |                     |                        |                                |              |             |        |           |           | an        |             |                                |
|           | Grand total                            | 1                       | 14,300 0 0 | 133                 | 94,027 9 8             | 2,046                          | 2,69,043 2 5 |             |        | 2         | 1,581 4 0 | 36        | 6,782 13 0  | 3,85,734 13 1                  |
| -         |  |                         |            | -                   |                        | -                              |              |             |        |           | (a) 16    | ten       | aporary vac | cinators were                  |

.

(a) 16 temporary vaccinators were
 (b) One Kabiraj was appointed by the
 (c) One Special Inspector of Vaccination

### No. II.

### Bengal during the year 1928-29.

|                          | Cont              | tingencies.             |                          | -                 |                             |                          |                                    |                |                          |  |   |
|--------------------------|-------------------|-------------------------|--------------------------|-------------------|-----------------------------|--------------------------|------------------------------------|----------------|--------------------------|--|---|
| Travelling<br>allowance. | Cost of<br>lymph. | Other<br>contingencies. | Total cost.              | Central revenues. | Provincial revenues.        | Local fund.              | Municipalities<br>and<br>Railways, | Native States. | Total.                   | Number of success-<br>ful vaccinations and<br>re-vaccinations. | Average cost of<br>each successful<br>case. |
| 10                       | 1                 | 10                      | 10                       | 0<br>20           | 21<br>21                    | 00                       |                                    | 8N<br>24       | 25                       | 25 NG  | AN 27                                       |
|                          |                   |                         |                          |                   |                             |                          | 23                                 |                | 20                       | 20   |   |
| Rs. A. P.                | Rs.               | Rs. A. P.               | Rs. A. P.                |                   | Rs. A. P.                   | Rs. A. P.                | Rs. A. P.                          |                | Rs. A. P.                |  | Rs. A. P,                                   |
| 3,210 14 1               |                   | 3,049 15 7              | 22,691 4 6               |                   | 6,893 3 7                   | 15,798 0 11              |                                    |                | 22,691 4 6               | 85,215   | 046   |
| 835 14 6<br>717 4 0      |                   | 134 12 6<br>65 8 6      | 5,241 6 8<br>5,029 1 6   |                   | 1,909 11 6<br>2,513 4 0     | 3,331 11 2<br>2,515 13 6 |                                    |                | 5,241 6 8<br>5,029 1 6   | 46,069 50,453  | 0 1 6                                       |
| 2,050 0 0                |                   | 417 8 6                 | 17,682 10 1              |                   | 4,126 12 1                  | 13,555 14 0              |                                    |                | 17,682 10 1              | 179,961  | 0 1 7                                       |
| 666 1 0                  |                   | 178 6 0                 | 4,016 5 0                |                   | 2,096 0 0                   | 1,920 5 0                |                                    |                | 4,016 5 0                | 39,262   | 0 1 7                                       |
|                          |                   | 243 14 0                | 6,479 12 6               |                   | 1,978 2 0                   | 4,501 10 6               |                                    |                | 6,479 12 6               | 34,941   | 0 2 11                                      |
| 7,480 1 7                |                   | 4,090 1 1               | 61,140 8 3               |                   | 19,517 1 2                  | 41,623 7 1               |                                    |                | 61,140 8 3               | 435,901  | 0 2 2                                       |
| 10-12 J 27               |                   | a la preside            |                          |                   |                             | and the second           |                                    |                |                          |  |   |
| 1,891 3 0                |                   | 1,061 4 3               | 17,541 14 7              |                   | 6,260 0 0                   | 11,281 14 7              |                                    |                | 17,541 14 7              | 142,248  | 0 1 11                                      |
| 64 1 0                   | 4,201 12          | 24,836 5 0              | 42,051 14 0              |                   | 42,051 14 0                 |                          |                                    |                | 42,051 14 0              |  |   |
| 1,920 0 0                |                   | 12,874 0 0              | 89,634 0 0               |                   |                             |                          | 89,634 0 0                         |                | 89,634 0 0               | \$8,572  | 2 5 1                                       |
| 2,083 2                  |                   | 273 10 0                | 9,502 11 0               |                   | 4,655 4 0                   | 4,847 7 0                |                                    |                | 9,502 11 0               | 87,390   | 0 1 6                                       |
| 2,070 5 0                |                   | 210 10 0                | 15,820 0 0               |                   | 8,230 5 0                   | 7,589 11 0               |                                    |                | 15,820 0 0               | 219,695  | 0 1 2                                       |
| 833 3 0                  |                   | 374 15 0                | 10,236 9 0               |                   | 4,892 9 0                   | 5,344 0 0                |                                    |                | 10,236 9 0               | 122,405  | 0 1 4                                       |
| 1,459 13 0               |                   | 116 0 0                 | 6,261 12 6               |                   | 3,330 13 0                  | 2,930 15 6               |                                    | **             | 6,261 12 6               | 104,866  | 0 0 11                                      |
| 10,321 11 0              | 4,201 12          | 39,746 12 3             | 1,91,048 13 1            |                   | * 69,420 13 0               | 31,994 0 1               | 89,634 0 0                         |                | 1,91,048 13 1            | 715,176  | 0 4 3                                       |
| A ST LOO I               |                   |                         |                          | 1 12              |                             |                          | 146 166                            |                |                          | 10000  |   |
| 1,580 3 0                |                   | 2,079 6 0               | 10,880 10 0              |                   | 7,378 1 0                   | 3,502 9 0                |                                    |                | 10,888 10 0              | 118,454  | 0 1 5                                       |
| 1,063 5 0                |                   | 148 10 0                | 12,974 10 0              |                   | 2,573 5 0                   | 10,401 5 0               |                                    | 1              | 12,974 10 0              | 126,133  | 0 1 7                                       |
| 986 8 0                  |                   | 559 9 3                 | 6,819 2 11               |                   | 2,831 7 0                   | 3,987 11 11              |                                    | ••             | 6,819 2 11               | 41,196   | 0 2 7                                       |
| 2,999 8 0<br>1,635 14 0  |                   | 370 6 0<br>704 10 0     | 7,941 1 0<br>16,396 12 0 |                   | 3,748 11 0<br>8,256 5 0     | 4,192 6 0<br>8,140 7 0   |                                    |                | 7,941 1 0<br>16,396 12 0 | 18,637   | 0 6 9                                       |
| 627 6 0                  |                   | 69 9 6                  | 5,396 11 0               |                   | 1,701 3 6                   | 3,695 7 6                |                                    |                | 5,396 11 0               | 40,878   | 0 2 1                                       |
| 466 1 0                  |                   | 311 8 6                 | 9,170 4 6                |                   | 2,172 1 0                   | 6,998 3 6                |                                    |                | 9,170 4 6                | 81,929   | 0 1 9                                       |
| 1,030 10 6               |                   | 460 12 0                | 17,070 14 1              |                   | 8,831 12 0                  | 8,239 2 1                |                                    |                | 17,070 14 1              | 350,503  | 0 0 9                                       |
| 10,389 7 6               |                   | 4,704 7 3               | 86,650 1 6               |                   | 37,492 13 6                 | 49,157 4 0               |                                    |                | 86,650 1 6               | 970,979  | 0 1 5                                       |
|                          |                   | 1.44 J 27.8             |                          |                   |                             | 1996 Barry 1             |                                    | 1              |                          |  |   |
| 1,133 14 0               |                   | 313 4 3                 | 9,243 4 8                |                   | 4,300 1 1                   | 4,943 3 7                |                                    |                | 9,243 4 8                | 196,501  | 0 0 9                                       |
| 2,104 13 0               |                   | 290 2 0                 | 28,768 10 6              |                   | 7,761 11 0                  | 21,006 15 6              |                                    |                | 28,768 10 6              | 393,510  | 0 1 2                                       |
| 1,816 0 0                |                   | 522 4 0                 | 7,481 3 0                |                   | 5,746 0 0                   | 1,735 3 0                |                                    |                | 7,481 3 0                | 104,156  | 0 1 1                                       |
| 1,361 8 0                |                   | 289 12 0                | 9,571 4 0                |                   | 4,467 3 0                   | 5,104 1 0                |                                    |                | 9,571 4 0                | 183,373  | 0 0 11                                      |
| 6,416 3 0                |                   | 1,415 6 3               | 55,064 6 2               |                   | 22,274 15 1                 | 32,789 7 1               |                                    |                | 55,064 6 2               | 877,540  | 0 0 7                                       |
|                          |                   |                         |                          |                   |                             |                          |                                    |                |                          |  |   |
| 806 12 0                 |                   | 288 0 0                 | 12,094 9 0               |                   | 2,272 9 0                   | 9,822 0 0                |                                    |                | 12,094 9 0               | 120,901  | 0 1 7                                       |
| 780 0 0                  |                   | 36 3 0                  | 7,374 11 0               |                   | 4,445 11 0                  | 2,929 0 0                |                                    |                | 7,374 11 0               | 129,800  | 0 0 11                                      |
| 1,572 10 0               |                   | 207 0 0                 | 10,374 3 0               |                   | 3,371 1 0                   | 7,003 2 0                |                                    |                | 10,374 3 0               | 296,674  | 0 0 6                                       |
| 1,330 5 0                |                   | 50 0 0                  | 4,715 4 0                |                   | 4,715 4 0                   |                          |                                    |                | 4,715 4 0                | 13,677   | 0 4 9                                       |
| 4,489 11 0               |                   | 581 3 0                 | 34,558 11 0              |                   | 14,804 9 0                  | 19,7.4 2 0               |                                    |                | 34,558 11 0              | 561,052  | 0 0 11                                      |
|                          | 4,201 12          | 50,537 13 10            | 4,28,462 8 0             |                   | 1,63,510 3 9                | 1,75,318 4 3             | 89,634 0 0                         |                | 4,28,462 8 0             | 3,560,648  | 0 1 11                                      |
| 3,205 6 2<br>42,302 8 3  | <br>4,201 12      | 50,537 13 10            | 21,655 6 2               |                   | 21,655 6 2<br>1,85,165 9 11 | 1,75,318 4 3             | 89,634 0 0                         |                | 4,50,117 14 2            | 3,560,648  | 0 1 3                                       |
| 623 9 0                  |                   | 1,235 2 9               | 34,517 12 9              |                   |                             |                          | 34,517 12 9                        |                | 34,517 12 9              | 104,646  | 0 5 1                                       |
|                          |                   |                         |                          |                   |                             |                          |                                    |                |                          | 49,269   |   |
|                          |                   |                         |                          |                   |                             |                          |                                    |                |                          | 15,624   | 1. 10                                       |
| 42,926 1 3               | 4,201 12          | 51,773 0 7              | 4,84,635 10 11           |                   | 1.85.165 9 11               | 1,75,318 4 3             | 1.24.151 12 9                      |                | 4,84,635 10 11           | 3,730,187  | 0 1 7                                       |
|                          |                   |                         |                          | 6.00              |                             |                          |                                    |                |                          |  |   |

appointed. District Board for Smallpox work, was appointed by Malda District Board

### STATEMENT No. III.

|          | Districts.                      | of municipalities, dispen-<br>etc., in each district to<br>vaccinator is attached. | es attached to<br>dispensary,   | persons vacel-              | persons vac-<br>ccinator.                 | Numb         | er of cases        | s primaril)                         | vaccina)              | led.     | Num<br>re- | ber of cas<br>vaccinate | cs<br>4.    | of suc<br>cases<br>whi<br>rest | s in<br>ich<br>ults<br>ere |          | known<br>s to   |
|----------|---------------------------------|--|---|-----------------------------|---|--------------|--------------------|-------------------------------------|-----------------------|----------|------------|-------------------------|-------------|--------------------------------|----------------------------|----------|-----------------|
| Number.  | Districts.                      | Number of municip<br>saries, etc., in eac<br>which a vaccinator i                  | Number of vaccinators<br>each municipality, e<br>etc., during the year. | Total number of 1<br>nated. | Average number of<br>cinated by each vace | Total.       | Under one<br>year. | One year<br>and under<br>six years. | Total of all<br>ages. | Unknown. | Total.     | Successful.             | Unknown.    | Primary.                       | Re-vaccination.            | Primary. | Re-vaccination. |
| _1       | 2                               | 3  | 4   | 5                           | 6   | 7            | 8                  | 9                                   | 10                    | 11       | 12         |                         | 14          | 15                             | 16                         | 17       | 18              |
| 1        | Burdwan                         | 6  | 7   | 7,717                       | 1,102                                     | 3,106        | 852                | 1,543                               | 2,910                 | 56       | 4,611      | 2,735                   | 200         | 93.6                           | 59.8                       | 1.8      | 4-3             |
| 2        | Birbhum                         | 1  | 1   | 303                         | 303                                       | 191          | 21                 | 149                                 | 180                   |          | 112        | 46                      |             | 94.2                           | 41.06                      |          |                 |
| 3        | Bankura                         | 3  | 3   | 3,972                       | 1,324                                     | 2,202        | 337                | 1,548                               | 2,152                 |          | 1,770      | 235                     | 0 9         | 97-7                           | 13.2                       |          | •5              |
| 4        | Midnapur                        | 7  | 8   | 3,756                       | 469                                       | 1,631        | 222                | 1,047                               | 1,548                 | 12       | 2,125      | 1,138                   | 50          | 94-9                           | 53-5                       | **       | 2.3             |
| 5        | Hooghly                         | 10   | 16  | 14,412                      | 900                                       | 5,545        | 1,326              | 3,347                               | 5,079                 | 255      | 8,867      | 5,515                   | 1,688       | 91-6                           | 62-1                       | 4.6      | 19.03           |
| 6        | Howrah                          | 2  | 10  | 11,927                      | 1,192                                     | 4,683        | 1,775              | 2,293                               | 4,241                 | 140      | 7,244      | 2,868                   | 322         | 63-4                           | 39.5                       | 2.09     |                 |
| 7        | 24-Parganas                     | 25   | 31  | 24,153                      | 779                                       | 14,360       | 3,779              | 7,979                               | 13,826                | 162      | 9,866      | 4,999                   | 984         | 96.2                           | 50-6                       | 1.1      | 9.9             |
| 8        | Calcutta                        | 1  | 60  | 106,152                     | 1,769                                     | 23,877       | 13,051             | 9,290                               | 22,849                | 556      | 82,275     | 15,723                  | 17,693      | 95.6                           | 19.1                       | 2.3      | 21.5            |
| 9        | Nadia                           | 9  | 12  | 6,565                       | 547                                       | 3,004        | 504                | 1,887                               | 2,577                 | 159      | 3,564      | 1,454                   | 999         | 85.7                           | 40.7                       | 5.2      | 28.02           |
| 10       | Murshidabad                     | 6  | 7   | 6,566                       | 938                                       | 2,337        | 721                | 1,361                               | 2,142                 | 15       | 4,235      | 1,469                   | 203         | 91.6                           | 34.6                       | -64      | 4-7             |
| 11       | Jessore                         | 3  | 3   | 726                         | 242                                       | 440          | 31                 | 361                                 | 436                   | 3        | 286        | 137                     | 12          | 99-08                          | 47.9                       | -68      | 4-2             |
| 12       | Khulna                          | 3  | 3   | 1,795                       | 598                                       | 965          | 277                | 604                                 | 944                   | .1       | 830        | 231                     | 92          | 97.8                           | 27.8                       | -10      | 11-08           |
| 13       | Rajshahi                        | 2  | 3   | 4,549                       | 1,516                                     | 1,319        | 495                | 761                                 | 1,266                 | 14       | 3,230      | 814                     | 851         | 95-9                           | 25.2                       | 1.06     | 26.3            |
| 14       | Dinajpur                        | 1  | 1   | 7,602                       | 7,602                                     | 1,132        | 266                | 631                                 | 1,126                 |          | 6,470      | 3,014                   | 865         | 99-4                           | 46.5                       |          | 13·3<br>12·6    |
| 15       | Jalpaiguri                      | 1  | 1   | 1,093                       | 1,093                                     | 467          | 322                | 123                                 | 467                   |          | 626        | 172                     | 79<br>8,527 | 100·<br>96·2                   | 27-4<br>26-4               | 3.8      | 33-8            |
| 16       | Darjeeling                      | 2  | 2   | 26,928                      | 13,464                                    | 1,807        | 1,020              | 476                                 | 1,737                 | 70<br>10 | 25,211     | 6,662<br>539            | 139         | 95.9                           | 44-9                       | 1.08     | 11.5            |
| 17       | Rangpur                         | 2  | 2   | 2,129                       | 1,064                                     | 929          | 101                | 731<br>281                          | 891                   | 6        | 7,057      | 989                     | 2,771       | 96.1                           | 14.01                      | .78      | 39.2            |
| 18       | Bogra                           | 2 2  | 4   | 7,829                       | 1,957                                     | 772<br>2,023 | 380<br>512         | 1,172                               | 741                   | 16       | 1,930      | 694                     | 115         | 92.4                           | 35-9                       | -79      | 5.9             |
| 19<br>20 | Pabna<br>Malda                  | 3  | 5   | 8,303                       | 1,661                                     | 957          | 353                | 489                                 | 860                   | 13       | 7,349      | 2,082                   | 1,135       | 89.8                           | 28.3                       | 1.3      | 15-4            |
| 21       | Dacca                           | 2  | 7   | 21,942                      | 3,134                                     | 7,129        | 2,153              | 3,618                               | 5,604                 | 281      | 14,937     | 4,574                   | 2,954       | 78.6                           | 30-6                       | 3-9      | 19.7            |
| 22       | Mymensingh                      | 9  | 8   | 6,391                       | 799                                       | 2,534        | 215                | 1,768                               | 2,174                 | 198      | 3,857      | 1,105                   | 662         | 85.1                           | 28.6                       | 7.7      | 17-1            |
| 23       | Faridpur                        | 3  | 3   | 2,530                       | 843                                       | 1,683        | 231                | 1,177                               | 1,554                 | 16       | 860        | 127                     | 180         | 92.3                           | 14.7                       | -95      | 20.9            |
| 24       | Bakarganj                       | 6  | 6   | 4,932                       | 822                                       | 2,074        | 347                | 1,071                               | 1,946                 | 68       | 2,858      | 1,691                   | 297         | 93.8                           | 59.1                       | 3.2      | 10.3            |
| 25       | Chittagong                      | 2  | 5   | 6,157                       | 1,231                                     | 1,436        | 209                | 973                                 | 1,277                 | 43       | 4,721      | 1,062                   | 900         | 88-9                           | 22-4                       | 2.9      | 19.06           |
| 26       | Noakhali                        | 1  | 1   | 988                         | 988                                       | 382          | 13                 | 295                                 | 347                   | 17       | 606        | 247                     | 147         | 90.8                           | 40·7<br>30·2               | 4-4      | 24-2            |
| 27       | Tippera                         | 3  | 3   | 3,603                       | 1,201                                     | 1,885        | 311                | 1,179                               | 1,595                 | 22       | 1,836      | 339                     | 010         | 04.0                           | 30.2                       |          | 20.0            |
|          | Total                           | 117  | 214   | 296,973                     | 1,388                                     | 88,870       | 29,824             | 46,154                              | 82,340                | 2,133    | 208,533    | 60,878                  | 42,253      | 90-6                           | 29.1                       | 2.3      | 20.2            |
|          |                                 |  |   |                             |   |              |                    |                                     | 1.1.1.                |          |            |                         |             |                                |                            | 10.743   |                 |
|          | Vaccinations<br>performed<br>by |  |   |                             |   |              |                    |                                     |                       |          |            |                         |             |                                |                            |          |                 |
| 28       | Railways                        |  |   | 21,170                      |   | 6,404        |                    |                                     | 4,620                 | 34       | 14,766     | 9,219                   | 554         | 72-1                           | 62-4                       | -53      | 3.7             |
| 29       | Steamers                        |  |   | 1,879                       |   |              |                    |                                     |                       |          | 1,879      | 1.44.11                 | 1,879       |                                | (**)()                     |          | 100             |
| 30       | Tea gardens                     |  |   | 33,067                      |   | 9,675        |                    |                                     | 9,012                 | 280      | 23,415     | 11,821                  | 5,534       | 93.1                           | 43-3                       | 2.8      | 23.6            |
| 31       | Factories                       |  |   | 29,947                      |   | 7,930        |                    |                                     | 7,463                 |          | 22,017     | 7,615                   |             | 94.1                           | 34-5                       |          |                 |
| 32       | Dispensaries                    |  |   | 27                          |   | 8            |                    |                                     | 7                     | 1        | 19         | 12                      | 7           | 87.5                           | 63-1                       | 12.5     | 36-8            |
| 33       | Jails                           |  | 55  | 31,299                      | 569                                       | 76           |                    | •                                   | .72                   | 2        | 31,223     | 15,552                  | 3,328       | 94.7                           | 49.8                       | 2.6      | 10.6            |
|          |                                 | 117  | 269   | 414,362                     | 1,541                                     | 112,963      | 29,824             | 46,154                              | 103,514               | 2,450    | 301,852    | 104,597                 | 53,555      | 90-02                          | 34-6                       | 2.1      | 19.             |

# Showing particulars of vaccination performed by vaccinators attached to municipalities, dispensaries and other agencies in the Presidency of Bengal during the year 1928-29.

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 under mentioned official years.

|  | -   |   |                   |   |                       |   |                       |  | Perse               | Persons primarily vaccinated.                   | v vaccinated     |  |                  |   |                       |   |                       |  |                        |   |
|--|---|---|-------------------|---|-----------------------|---|-----------------------|--|---------------------|---|------------------|--|------------------|---|-----------------------|---|-----------------------|--|------------------------|---|
| A CONTRACTOR OF CONTRACTOR OFO | 1919-20   | 20.   | 1920-21.          | TI I  | 1921-22.              | gi  | 1922-23               | in the   | 1923-24             | 24.   | 1924-25.         | 5.   | 1925-20.         | w.  | 1924-27.              | 27.   | 1927-28               | - 83   | 1928-29.               | 29.   |
| Establishment.   | Total<br>number.                                  | Number.<br>success-<br>fully<br>vace.<br>nated. | Total<br>number.  | Number<br>succeas-<br>fully<br>vacel-<br>nated. | Total<br>number.<br>6 | Number<br>success-<br>fully<br>vacel-<br>nated. | Total<br>number.<br>8 | Number<br>success-<br>fully<br>vacel-<br>nated.<br>9 | Total<br>number.    | Number<br>success-<br>fully<br>vacel-<br>nated. | Total<br>number. | Number<br>success-<br>fully<br>vacci-<br>nated<br>13 | Total<br>number. | Number<br>success-<br>fully<br>vacci-<br>nated.<br>15 | Total<br>number<br>16 | Number<br>success-<br>fully<br>vacci-<br>nated.<br>17 | Total<br>number<br>18 | Number<br>success-<br>fully<br>vace-<br>nated. | Total<br>number.<br>20 | Number<br>success-<br>fully<br>vaced-<br>nated.<br>21 |
| Government   | 5,646   | 5,581   | 6,504             | 6,432   | 6,489                 | 6,404   | 6,640                 | 6,516  | 5,890               | 5,781   | 788,7            | 7,273  | 8,675            | 8,639   | 6,810                 | 6,749   | 6,151                 | 6,003  | 7,846                  | 7,771   |
| Municipalities<br>District Boards<br>(Paid)  | 114,722<br>476,163                                | 110,026   | 68,592<br>602,879 | 66,133<br>581,886                               | 76,194                | 73,253  | 79,473                | 1,232,857  | 78,402<br>1,486,827 | 1,430,198                                       | 1,529,956        | 1,477,762  | 018'665'1        | 1,543,133   |                       | 1,546,628   |                       | 1.1  | 1,928,327              | 1,785,592   |
| D lupensaries, Rail-<br>ways, Tes Gardens,<br>Fac ories and Jails  | 13,503  | 12,590  | 7,892             | 7,451   | 5,793                 | 5,294   | 7,038                 | 6,017  | 13,573              | 12,220  | 13,908           | 12,047   | 19,756           | 18,016  | 15,513                | 14,032  | 21,938                | 20,455   | 24,070                 | 21,174  |
| Work done by<br>Lic.nsed vaccinators   | 1,031,025   | 1,006,245                                       | 728,570           | 708,862   | 378,464               | 820'298   | 144,210               | 140,775  | 3,053               | 2,570   | :                | :  | 625,62           | 28,827  | :                     | :   | :                     | :  |                        | :   |
| Total  | 1,641,449 1,596,613 1,414,437 1,370,764 1,203,677 | 1,596,613                                       | 1,414,437         | 1,370,764                                       | 1,203,677             | 1,922,312                                       | 1,522,701             | 1,462,131  | 1,587,745           | 1,525,503                                       | 1,653,320        | 1,595,000  | 1,749,320        | 1,685,516 1,740,309                                   | 1,740,309             | 1,657,657   | 1,025,001             | 1,814,715 2,048,775                            | 2,048,775              | 1,896,877   |

STATEMENT No. V.

Showing particulars of vaccination verified by the Inspecting officers during the year 1928-29.

|  | \$.Zi   | nation.               | 8  |  | 50.05               |
|--|---|-----------------------|----|--|---------------------|
|  | Percentage<br>of success<br>reported by<br>vaccinators.   | Re-vacd-              |    | 4458-45464331144888464646488 5   | 10                  |
|  |   | L'timety.             | 28 |  | - 00                |
| ther   | Assistant<br>perinten<br>dents of<br>ceination<br>of Rural<br>sanitary<br>aspectors<br>a Assis-<br>t Health<br>Officers,                            | Re-vacel-             | 5  | 28282855 32424444445532855 352882555   |                     |
| to total number                                      | By Assistant<br>Superinten<br>Jents of<br>Vaccination<br>and Rural<br>Inspectors<br>and Assis-<br>tant Health<br>Officers.                          | I rineary.            | 8  | 92 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   | 0.00                |
| I to tot   |   | Be-vacel-<br>notion.  | 25 |  |                     |
| cases found successful<br>inspected.                 | By Munici-<br>pal Superin-<br>tendents of<br>vacination<br>and Munici-<br>pal Sanitary<br>Inspectors.   | Primery.              | 24 |  |                     |
| laspect  |   | Re-vacel-             | 23 |  |                     |
| Cases 1  | By Civil<br>Surgeous<br>and District<br>Health<br>Officers.   | Privary.              | 81 | 85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |                     |
| Percentage of  |   | Re-vacel-             | 21 |  |                     |
| Percei   | By Assistant<br>Directors of<br>Public<br>Health.   | Prineary.             | 20 |  |                     |
|  |   | Revascel-             | 19 |  |                     |
| ocinated   | By Assistant<br>Superinten-<br>Superinten-<br>Vacenation<br>and Rural<br>Fanitary<br>Inspector<br>Assis-<br>and Assis-<br>trant Health<br>Officers, | Primary.              | 18 | 40   |                     |
| aber va  |   | Re-vacel-<br>instion. | 17 |  | 1.0                 |
| tal nun  | By Municipal<br>Superin-<br>tendents of<br>Vaccination<br>and Munici-<br>pal Sanitary<br>Inspectori.  | Primary.              | 16 | 22222222222222222222222222222222222222   | 0.1                 |
| on to to   |   | Re-vacel-             | 15 | ······································   |                     |
| Percentage of inspection to total number vaccinated. | By Civil<br>Surgeons<br>and District<br>Health<br>Officers.   | Primary.              | 14 | 9.6<br>9.6<br>9.6<br>9.6<br>9.6<br>9.6<br>9.6<br>9.6   | 0.0                 |
| age of i   |   | Re-vacel-             | 13 |  |                     |
| Percent  | By As-istant<br>Directors of<br>Public<br>Health.   | Primary.              | 10 |  |                     |
|  |   | Re-vacei-             | 11 | 222,468<br>2,739<br>2,739<br>2,739<br>5,9347<br>5,9347<br>5,9347<br>5,9347<br>1,738<br>5,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1,0058<br>1   |                     |
|  | By Assistant<br>Superintentents<br>of Vaccintentation<br>and Rural Saul-<br>tary Espectors<br>and Assistant<br>Health Officers,                     | Primary.              | 10 | 2,018<br>2,019<br>2,019<br>2,019<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018<br>2,018, | 100 001             |
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| sd.  | By Municipal<br>Superintensients<br>of Vacciastion<br>and Municipal<br>Sanitary<br>Inspectors,  | Primary.              | 00 | 1,262<br>863<br>863<br>863<br>863<br>863<br>2,3965<br>1,099<br>1,099<br>1,048<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>872<br>916<br>916<br>916<br>916<br>916<br>916<br>916<br>916<br>916<br>916  | 00 000              |
| Total number inspected.                              |   | Re-vacel-             | 1. | 9,885<br>6475<br>6475<br>6476<br>6478<br>6578<br>6584<br>6584<br>6597<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>8694<br>7578<br>7578<br>7578<br>7578<br>7578<br>7578<br>7578<br>757   | 90.000              |
| otal numb  | By Gvill<br>Surveous and<br>District Health<br>Officers.  | Primary.              | 9  | 5,701<br>5522<br>5522<br>5525<br>5555<br>5555<br>5555<br>5555<br>55  | 60.074              |
| H  |   | Re-vacel-<br>nation.  | 10 |  |                     |
|  | By Assistant<br>Director of<br>Public<br>Health.  | Primary.              | -  |  | 1000                |
| -  |   | Re-vacel-<br>nation.  |    | 57,074<br>30,3995<br>30,3995<br>30,3995<br>30,4995<br>311,3002<br>3311,3002<br>3311,3002<br>3311,3002<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>133,5022<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>134,5032<br>14,503  | 1 007 000           |
|  | Total number of<br>persons vacel-<br>nated.   | Primary.              | 68 | 64,670<br>49,770<br>49,770<br>49,770<br>49,770<br>49,770<br>49,770<br>49,770<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>49,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,570<br>40,5700<br>40,5700<br>40,5700  | 2 048 775 2 007 600 |
|  | District.   |                       | 1  | Bardwan<br>Blerdwan<br>Blechum<br>Midmer<br>Midmer<br>Hoorphy<br>Hoorphy<br>Hoorphy<br>Calentia<br>Calentia<br>Calentia<br>Rayhahd<br>Duayeeling<br>Flanka<br>Rayhahd<br>Duayeeling<br>Flanka<br>Rayhahd<br>Duayeeling<br>Flanka<br>Rayhahd<br>Duayeeling<br>Flanka<br>Rayhahd<br>Midia<br>Pakerang<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Calitageng<br>Cal   | Total               |

STATEMENT No. VI Showing, side by side, the ratios por mille of gopulation of deaths from small-pox and the number of successful vaccinations during the ten years ending 1928-29.

| <ul> <li>Number o</li> <li>Varchardt</li> <li>Number o</li> <li>Sambly-pox</li> <li>Sambly-pox</li> <li>Sambly-pox</li> <li>Number o</li> <li>Number o</li> <li>Sambly-pox</li> <li>Samply-pox</li> <li>Sa</li></ul>   | 34         83,234         06         77,293         07         61,625         70,276         52         92,481         11,00         11,733           44         27,146         06         77,293         07         60,625         99         70,278         52         92,481         100         141,733           44         27,146         06         71,910         07         20,015         08         52,776         11         45,666         11,778   | 16         46,003         01         48,306         05         49,218         03         14,601         18         64,61         56         61,161         56         61,161         56         61,161         56         61,161         56         61,161         56         61,161         56         61,124         56         61,124         56         61,124         56         61,124         56         61,161         56         61,161         56         61,161         56         61,161         56         61,162   | 46         81(63)         66         72'706         12         90(23)         11         90'51         70         110.016         12'106         12'1           54         81(53)         94         87(5)         11         90'51         2'1         10'10'6         12'100         12   | 08         16,202         000         64,244         01         62,004         000         50,029         03         71,225         04         73,337           74         112,823         04         55,797         04         65,045         07         52,187         04         73,334           74         112,823         04         55,046         07         52,187         04         73,334           74         112,823         04         65,048         07         52,187         04         73,334           74         112,823         04         65,048         07         52,187         04         73,334           66         34,010         04         63,048         07         52,187         04         73,344           66         34,010         05         34,010         07         32,161         04         73,344           66         34,010         06         34,010         07         34,010         07         33,002           67         19,02         1         36         34,010         91         36,000         96         36,000         96         36,000         96         96         36,000         96         36,  | 07         19/162         00         15/263         01         16/293         01         16/293         01         16/293         01         16/293         01         16/293         07         22/293         22/203   | 133269         21         11139         220         97.044         222         101.316         117         127.326         24         11.03         263         100.316         117         127.326         241         11.03         263         100.316         117         127.326         110         263         264         263         264         263         264   | under open under tragis-<br>tragis-<br>tragis-<br>tragis-<br>tration. 8,752 9,366 8,548 tration. 39,681 tration. 30,438 30,438 37<br>8,548 tration. 39,681 tration. 30,438 37<br>8,548 tration. 30,438 30,438 37<br>30,438 37  |
|--|--|--|---|---|---|---|--|
| <ul> <li>sumali-pox</li> <li>sumali-pox</li> <li>yaccinati</li> <li>sumali-pox</li> <li>sumali-pox</li></ul>   | 83,234 06 17,200 07 01,025 00 70,026 11,00 14,733 11.00 14,733 11.00 14,733 11.00 14,733 11.00 14,733 11.00 14,733 11.00 14,778 11.00 1 | 45,003         01         48,008         00         49,218         03         44,801         18         (6,161         56         01         45,003         01         45,003         01         75         112,355         117         116         (6,161         56         01         135,15         117         121,355         117         122,305         103,515         113,255         117         121,355         117         155,15         113,255         117,17         153,15         112,355         117,17         153,15         112,355         117,17         153,15         113,255         113,175         112,175         113,175   | RIGH         06         72/706         12         90/325         11         96/75         70         10/916         10/16         12/16           10.311         34         470         12         90/325         11         96/75         17/16         12/16         12/16         12/16           10.311         34         46/95         15         10/16         12/17 <td>162,002         000         64,244         01         62,004         000         50,229         03         71,232         04         53,334           712,823         04         53,075         04         63,048         07         52,187         04         73,314           75,518         03         82,529         04         63,648         07         52,187         04         73,171         04         73,334           75,518         03         84,677         50         23         74,91         22         86,740           75,518         04         16,329         03         34,677         50         23         34,610         23,466           19,1262         10         16,320         01         16,320         07         33,610           19,1262         10         16,320         01         16,320         01         13,510         07         33,628           19,1262         10         16,320         01         16,320         01         15,326         34,612           10,1262         10         16,320         01         15,326         34,612         07           10,1262         10         16,320         01</td> <td>19:00         15,000         15,703         01         16,320         01         16,320         01         16,320         07         235,230           19:00         10,305          15,703         01         16,320         01         16,320         07         13,500         07         13,500         07         13,500         07         13,500         07         13,510         07         13,520         10,10         1</td> <td>133269         21         11139         220         97.044         222         101.316         117         127.326         24         11.03         263         100.316         117         127.326         241         11.03         263         100.316         117         127.326         110         263         264         263         264         263         264</td> <td>0,000         ander<br/>ander         r,rai         ander<br/>ander         r,rai         ander<br/>ander         ander<br/>regis-<br/>regis-<br/>regis-         o,ref<br/>ander         s,300         and<br/>bit         and<br/>bit</td> | 162,002         000         64,244         01         62,004         000         50,229         03         71,232         04         53,334           712,823         04         53,075         04         63,048         07         52,187         04         73,314           75,518         03         82,529         04         63,648         07         52,187         04         73,171         04         73,334           75,518         03         84,677         50         23         74,91         22         86,740           75,518         04         16,329         03         34,677         50         23         34,610         23,466           19,1262         10         16,320         01         16,320         07         33,610           19,1262         10         16,320         01         16,320         01         13,510         07         33,628           19,1262         10         16,320         01         16,320         01         15,326         34,612           10,1262         10         16,320         01         15,326         34,612         07           10,1262         10         16,320         01  | 19:00         15,000         15,703         01         16,320         01         16,320         01         16,320         07         235,230           19:00         10,305          15,703         01         16,320         01         16,320         07         13,500         07         13,500         07         13,500         07         13,500         07         13,510         07         13,520         10,10         1   | 133269         21         11139         220         97.044         222         101.316         117         127.326         24         11.03         263         100.316         117         127.326         241         11.03         263         100.316         117         127.326         110         263         264         263         264         263         264   | 0,000         ander<br>ander         r,rai         ander<br>ander         r,rai         ander<br>ander         ander<br>regis-<br>regis-<br>regis-         o,ref<br>ander         s,300         and<br>bit         and<br>bit |
| vaccinati<br>a Ratio of d<br>a Ratio of d<br>vaccinati<br>a Number o<br>Ratio of du<br>a Sumber o<br>Sumber o<br>a Sumber o<br>a Sum   |  | 01         48.308         00         49.218         03         44.701         18         6.5.61         54         61.365           01         48.308         00         49.218         03         125.029         00         112.556         11         18         6.5.61         54         61.365           01         34.270         09         38.912         06         30.468         11         17         19         9.6         14.555           02         34.270         09         38.912         06         30.468         10         41.77         16         41.794           03         34.270         06         36.468         06         36.468         10         41.77         15         41.794           04         24.600         06         36.726         06         36.726         10         42.77         10         42.794           07         34.600         10         36.726         10         36.726         11         24.600         44.794         10         42.794         42.794           07         34.600         10         36.726         10         36.726         10         42.794         10         42.794  | 06         72,706         12         90,223         11         90,71         10         11 <th11< th=""> <th11< th="">         11</th11<></th11<>   | 000         64,244         01         62,044         009         50,259         03         71,232         04         63,048         07         73,334           04         53,797         04         63,048         07         52,187         04         73,334           23         05         66,048         07         52,187         04         73,334           23         04         63,048         07         52,187         04         73,334           23         04         63,048         07         52,187         04         73,334           24         24,67         04         73,016         03         74,01         03         73,034           144         24,562         13         31,002         16         13,510         07         33,62           00         15,002         01         16,520         01         16,520         01         33,62           01         16,520         01         16,520         01         16,520         01         33,62           01         16,520         10         16,520         01         16,520         07         33,62           01         16,520         16  | 00         16,055          16,752         00         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         16,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326         10         10,326 <t< td=""><td>24         71,139         29         97,044         20         10,136         11         127,286         140,486           26         10,230         21         20,200         20,44         22         20,1366         17         127,286         24         140,486           20         10,4364         20         21,464         20         21,646         23         140,486         23         140,486         24         26         26,466         24         26         26,466<td>ander resta-<br/>resta-<br/>tration. 9,366 8,548 39,681 30,438 37,127<br/> 9,366 330,438 37,127</td></td></t<>  | 24         71,139         29         97,044         20         10,136         11         127,286         140,486           26         10,230         21         20,200         20,44         22         20,1366         17         127,286         24         140,486           20         10,4364         20         21,464         20         21,646         23         140,486         23         140,486         24         26         26,466         24         26         26,466 <td>ander resta-<br/>resta-<br/>tration. 9,366 8,548 39,681 30,438 37,127<br/> 9,366 330,438 37,127</td> | ander resta-<br>resta-<br>tration. 9,366 8,548 39,681 30,438 37,127<br>9,366 330,438 37,127  |
| <ul> <li>small-poor</li> <li>small-poor</li> <li>yaccinati</li> <li>yaccinati</li> <li>small-poor</li> <li>Sumber of</li> <li>Sumber of</li> <li>Sumber of</li> <li>Sumber of</li> <li>small-poor</li> <li>Sumber of</li> <li>small-poor</li> <li>small-poor</li> <li>Sumber of</li> <li>small-poor</li> <li>small-poor</li> <li>Sumber of</li> <li>small-poor</li> <li>small-poor</li> <li>Sumber of</li> </ul>   | 06 77,200 07 01,025 09 70,276 11 00 14,733 00 14,738 00  | 94.368         -05         +9.218         -03         +1.4701         118         65.61         -54         61.362           94.661         33         128.009         -06         312.556         -17         121.307         56         113.555           34.270         -09         33.912         -06         30.468         -39         41.717         50         14.555           34.270         -09         36.266         -06         36.266         -06         36.756         41.717         51         41.735           29.665         -24         24.526         -06         36.756         -66         41.737         50         42.555           29.665         -24         24.526         -06         36.756         -66         41.737         51         41.734   | Territie   | 64,244         01         62,044         009         50,529         03         71,232         04         63,048         035         50,529         03         71,232         04         63,048         035         52,187         04         71,232         04         73,334  | 16.965          15.763         01         16.326         16.326         16.326         17.326         17.327         18.326         17.31         10.326 <th< td=""><td>T1139         C29         07.044         C20         210.3.06         T7         127.366         T3         137.366         T3         137.366         T3         137.366         T3         137.366         T3         137.366         T3         137.366         T3         136.366         T3         23.386         136.366         T3         23.366         136.366         73.388         70.06         73.338         70.3         26.366         73.388         70.366         73.388         70.366</td><td>1,101         1,001         0,002         0,004         0,004         10,009           Tregis-<br/>Tregis-<br/>17810         1006         0,100         0,01         10,009           9,366          8,648          39,681         tration.         30,438            9,366          8,548          39,681          30,438        </td></th<> | T1139         C29         07.044         C20         210.3.06         T7         127.366         T3         137.366         T3         137.366         T3         137.366         T3         137.366         T3         137.366         T3         137.366         T3         136.366         T3         23.386         136.366         T3         23.366         136.366         73.388         70.06         73.338         70.3         26.366         73.388         70.366         73.388         70.366   | 1,101         1,001         0,002         0,004         0,004         10,009           Tregis-<br>Tregis-<br>17810         1006         0,100         0,01         10,009           9,366          8,648          39,681         tration.         30,438            9,366          8,548          39,681          30,438   |
| vaccinati<br>vaccinati<br>vaccinati<br>vaccinati<br>vaccinati<br>vaccinati<br>Matio of d<br>Matio of d<br>Matio of d<br>Matio of d<br>Matio of d<br>Matio of d<br>vaccinati<br>Matio of d<br>vaccinati<br>Matio of d<br>vaccinati<br>Matio of d<br>vaccinati<br>Matio of d<br>Matio of d<br>Mati | 0 11.025 10.026 10.021 11.00 111.738 11.00 111.738 11.00 111.738   | 00         49.218         03         44.891         18         6.5.61         0.4         0.1.25           01         49.218         03         144.891         18         6.5.61         0.4         0.1.25           01         23.812         06         30.458         19         112         10.1         10.1         11.25           01         23.812         06         30.468         10         41.7         10         11.7         11.7         10.1   | 12         00.0221         -11         90.751         -700         110.016         -1.6         127.101         1.7           0.0   | 01 02.004 009 50.229 03 10.222 05 51.257<br>04 03.048 07 52.006 00 10.229 05 71.258<br>05 34.67 04 71.440 02 55.066<br>11.66 34.67 04 71.440 02 55.067<br>11.66 34.67 04 71.440 02 55.067<br>11.66 34.67 04 71.440 02 55.067<br>11.66 34.67 04 71.67 05 55.068  | 16,763 001 16,320 001 13,500 07 23,528<br>005 22,721 02 33,876 01 13,500 07 12,528<br>006 22,721 02 33,876 14 13,746 15 14,223 14 160<br>002 45,745 001 23,836 14 150 14 160 16 34,791<br>002 45,746 01 23,836 14 150 14 160 16 34,791<br>002 45,746 01 28,836 14 150 14 160 24,344<br>002 45,746 101 23,846 14 160 24,344<br>002 45,746 101 23,846 14 160 24,344<br>002 45,746 101 23,946 14 160 24,344<br>002 45,746 101 23,846 14 160 24,344<br>002 45,746 101 23,946 14 160 14 160 24,344<br>002 45,746 101 24,444 14 14 14 14 14 14 14 14 14 14 14 14  | 20         07.044         20         20.101         110         111   | under 0.042 under 0.042 under 10.009 under 10.009 under 1782is-<br>tregis- tration. 39,681 tration. 30,438 37,127 37,127   |
| <ul> <li>% small-poor</li> <li>% Xumber «</li> <li>% Yaccinati</li> <li>% Sumber «</li> </ul>  | 01.025 09 70.026 02.181 1.00 141.733 20.915 05.101 145.008 11.00   | 18.218         03         14.491         18         6.3.61         0.4         0.1.55           128.0129         06         112.358         11         18         6.3.61         0.4         0.1.55           25.201         06         30.458         10         117         12         13         14.55           24.202         06         30.458         10         117         7         10         117           24.202         06         30.458         10         41.717         7         10         42.76           24.202         06         36.756         10         41.717         7         10         42.76   | 90.022 -11 90.751 -70 110.916 -16 127.100 1-3<br>258.607 -02 50.646 -25 01.16 -17 -16 127.100 1-3<br>258.607 -02 50.646 -25 01.16 -27 1-70 56.648 -22<br>258.209 -01 55.256 -15 01.16 -20 56.049 -24<br>-3.178 -01 55.256 -15 05.050 -24<br>-3.189 -01 55.256 -25 05.050 -24<br>-3.180 -01 55.256 -25 05.050 -24<br>-3.180 -01 55.256 -25 05.050 -24<br>-4.181 -25 -25 05.050 -25 -45<br>-4.181 -25 -25 05.050 -25 -45<br>-4.181 -25 -25 -25 05.050 -25 -45<br>-4.181 -25 -25 -25 -25 -25 -25 -25 -25 -25 -25  | CC2004         009         50.229         03         71.232         04         73.334           CC2004         009         50.229         03         71.232         04         73.334           CC2004         009         50.229         04         71.1232         04         73.334           R4.671         63         75.066         04         71.1232         04         73.334           R4.671         63         73.066         04         73.171         04         73.334           R4.671         63         73.066         04         73.171         04         73.334           R4.671         63         73.06         04         73.440         92         33.062           R4.671         64         73.440         92         93.062         94         74.544         96         33.062           R4.671         64         73.466         94         74.544         96         33.062           R4.671         94         74.546         96         74.546         96         33.062           R4.671         94         74.546         96         74.546         96         74.546           R4.671         94         96 <td>15/763         01         16,232         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         17,16         17,16         17,16         17,16         17,16         17,16         17,174         16,326         16,326         16,326         16,36         17,16         16,326         16,36         17,16         16,36         17,16         16,36         17,16         16,36         17,16         16,36<td>07.044         122         2101.316         117         127.326         244         10.042           067.044         122         2101.316         117         127.326         244         10.042           067.044         067         41.167         03         10.00.04         10.042         10.042           067.044         07         41.167         03         10.00.04         10.04         10.042           067.041         11.167         03         10.00.04         10.04         10.04         10.04           067.041         11.167         03         10.00.04         10.04         10.04         10.04           067.01         11.167         03         10.00.04         10.04         10.04         10.04           067.01         13.175         006         69.267         10.01         10.0470           067.02         10.040         0.020         0.020         10.0109         10.14.776           0.022         Not         0.020         Not         10.0109         10.14.776</td><td>0.0021 Mode 0.100 Aud 10.009<br/>registre tration. 39,681 tration. 30,438 tration. 37,127</td></td>  | 15/763         01         16,232         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         01         16,326         17,16         17,16         17,16         17,16         17,16         17,16         17,174         16,326         16,326         16,326         16,36         17,16         16,326         16,36         17,16         16,36         17,16         16,36         17,16         16,36         17,16         16,36 <td>07.044         122         2101.316         117         127.326         244         10.042           067.044         122         2101.316         117         127.326         244         10.042           067.044         067         41.167         03         10.00.04         10.042         10.042           067.044         07         41.167         03         10.00.04         10.04         10.042           067.041         11.167         03         10.00.04         10.04         10.04         10.04           067.041         11.167         03         10.00.04         10.04         10.04         10.04           067.01         11.167         03         10.00.04         10.04         10.04         10.04           067.01         13.175         006         69.267         10.01         10.0470           067.02         10.040         0.020         0.020         10.0109         10.14.776           0.022         Not         0.020         Not         10.0109         10.14.776</td> <td>0.0021 Mode 0.100 Aud 10.009<br/>registre tration. 39,681 tration. 30,438 tration. 37,127</td>   | 07.044         122         2101.316         117         127.326         244         10.042           067.044         122         2101.316         117         127.326         244         10.042           067.044         067         41.167         03         10.00.04         10.042         10.042           067.044         07         41.167         03         10.00.04         10.04         10.042           067.041         11.167         03         10.00.04         10.04         10.04         10.04           067.041         11.167         03         10.00.04         10.04         10.04         10.04           067.01         11.167         03         10.00.04         10.04         10.04         10.04           067.01         13.175         006         69.267         10.01         10.0470           067.02         10.040         0.020         0.020         10.0109         10.14.776           0.022         Not         0.020         Not         10.0109         10.14.776   | 0.0021 Mode 0.100 Aud 10.009<br>registre tration. 39,681 tration. 30,438 tration. 37,127   |
| vaccibati  | 10 11 12 12 12 12 12 12 12 12 12 12 12 12  | 00 112.55 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5  | 11 00.751 70 110.016 10 117 10 117 10 117 10 117 10 117 10 117 10 117 10 117 10 117 10 117 10 117 10 117 10 10 10 10 10 10 10 10 10 10 10 10 10   | 000 10,200 10,200 10,00  | 01 16,220 01 13,200 07 23,228<br>000 75,320 01 13,200 07 23,228<br>02 33,876 04 13,726 06 14, 00<br>01 25,836 04 1 31,746 06 14, 00<br>01 25,836 10 14,600 16 24,00<br>01 25,836 10 16 24,00<br>01 25,836 10 25,00<br>01 25,836 10 25,00<br>01 25,000 10 25,000 10 25,00<br>01 25,000 100 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,0000 10,000 10,000 10,000 10,000 10,000 1   | 101         101         117         117         117         117         116         11         116         110  | under view And 8,800 And 10,009<br>registration. 30,661 30,458 37,127<br>30,458 37,127   |
| <ul> <li>Sumber of sumpley of sumpley of succineti and succineti and</li></ul>   | 70.206 - 52 92.481 1.00 141.738  | 44,891 18 65,61 58 61,555<br>102,458 17 121,997 15 14,555<br>302,468 17 121,397 15 14,255<br>36,256 16 14,177 15 14,255<br>36,256 16 14,177 15 14,255<br>41,289 2100 12,555  | 99,751         -700         110,916         -706         110,916         1-71           200,512         2.51         11,016,16         112,716         127,716         127,716           200,916         2.51         11,116         72,71         127,716         222           200,916         10,116         72         127,716         224           200,916         10,116         72         127,716         224           200,916         10,116         72         126,916         224           201,916         10,116         72         126,916         224           201,916         10,116         72         126,916         224           201,917         11,116         72         126,916         224           201,918         10,116         72         100,0103         24           201,918         10,116         72         100,0103         24           201,918         10,116         72         100,0103         24           201,918         10,116         10,116         100,0103         24           201,918         10,116         10,116         100,0103         24  | 10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022<br>10,022  | 16.320 001 13.500 07 25.228<br>76.328 01 13.500 07 25.228<br>33.576 14 31.203 26 31.701<br>25.621 04 14.650 16 31.701<br>25.621 04 14.650 10 25.44.91<br>26.639 11 25.621 10 25.44.91<br>26.649 11 25.621 10 25.44.91<br>26.649 1000 10000000000000   | 201.516         17         127.386         24         10.486           101.516         11         271.867         13         80.415           11.167         03         50.044         113         36.929           11.167         03         50.044         113         36.929           11.167         03         50.044         113         36.929           11.167         03         50.044         113         36.929           12.175         13         37.934         38.041         36.043           13.175         05         60.557         24         89.541           13.175         10.127         24         89.541         36.71           13.175         13.575         24         89.565         36.71           13.175         13.575         24         89.565         36.71           13.175         13.575         24         89.565         36.71           13.175         13.575         24         89.565         36.71           13.175         13.575         24         89.565         36.71           14.755         57.96         8.97         36.96         36.71   | 39,681 traffer 30,438 traffer 37,127   |
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| o to olian =   | 111  | Refer  |   |   |   | 18938558 bill   | not<br>trepls-<br>tration  |
|  |  |  | 21-030  | 9:29:83   | 88.8555   |   |  |
| Zumber o   | 06,777<br>62,195   | 03.410<br>145.873<br>47,150<br>34,733  | 5,155<br>7,359<br>0,442<br>3,553<br>5,153   | 50,649<br>97,809<br>31,535<br>14,728  | 14.728<br>104.140<br>40.684<br>117.116<br>61.239<br>61.239<br>147.745   | 147.745<br>320.817<br>86.759<br>104.265<br>70.469<br>83.883<br>135.946<br>7.656   | 32,032   |
| to oltaH =   | 1.20   | 8 <u>8</u> 853   | 89733   | 10110101  | 101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101  | Not 410   | not<br>mider<br>tration.   |
| S Vumber of  | 77,742   | 101212   | 149.89<br>39.75<br>83.94<br>112.18  |   |   | 137,18<br>316,25<br>99,77<br>99,77<br>99,52<br>110,50<br>110,50<br>191,21<br>191,21   | 53,403   |
| o to oltaH g   |  | 12010  | 5 2 2 2 2 2   | 68.148<br>86.102<br>86.102<br>24.230<br>14.142<br>14.142  | 14,142<br>41,588<br>41,588<br>40,844<br>09,382<br>37,186  | 9-0000-9  |  |
|  | o of the start - x - x - x - x - x - x - x - x - x -   | 201 10 Mathematical Sector of Sector | 2525555<br>2525555<br>2525555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>25555555<br>25555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>2555555<br>25555555<br>25555555<br>25555555<br>25555555<br>25555555<br>25555555<br>255555555   | Tables         Tables <thtables< th=""> <thtables< th=""> <thtables< td="" th<=""><td>17         Yarelinet           17         Yarelinet           18         117           17         Yarelinet           18         117           19         117           10         117           11         117           12         116           13         117           14         116           10         116           10         116           11         117           12         116           13         116           14         116           10         116           11         117           12         116           13         116           14         116           14         116           15         116           14         116           15         116           16         117           17         118           18         116           19         116           116         116           117         117           118         116           118         1</td><td>2004 Institute 2015 2015 2015 2015 2015 2015 2015 2015</td><td>American         American         American</td></thtables<></thtables<></thtables<> | 17         Yarelinet           17         Yarelinet           18         117           17         Yarelinet           18         117           19         117           10         117           11         117           12         116           13         117           14         116           10         116           10         116           11         117           12         116           13         116           14         116           10         116           11         117           12         116           13         116           14         116           14         116           15         116           14         116           15         116           16         117           17         118           18         116           19         116           116         116           117         117           118         116           118         1   | 2004 Institute 2015 2015 2015 2015 2015 2015 2015 2015  | American  |

Ron

### STATEMENT No. VII.

Showing the protection afforded to infants in each town in the Presidency of Bengal during the year 1928-29.

| District.                             |      | Town                               | Number of<br>births<br>during<br>the year. | Number of<br>deaths<br>amoongst<br>children<br>under one<br>year during<br>the year. | Number of<br>successful<br>vaccinations<br>on children<br>under one<br>year during<br>the year<br>ending 31st<br>March 1929. | Date of extension of Vaccination<br>Act to town.                    |
|---------------------------------------|------|------------------------------------|--|--|--|---|
| i                                     |      | 2                                  | 3  | 4  | 5  | 6   |
| 1 4 1                                 | -    | Burdwan                            | 281  | 32   | 162  | 1st July 1883.  |
| 101                                   |      | Kalaa                              | 192  | 30   | 102  | lst " "   |
| Burdwan                               |      | Katwa                              | 81   | 11   | 77   | 1st   |
|                                       |      | Dainhat                            | 83   | - 7  | 74   | 1st ., .,   |
|                                       |      | Raniganj                           | 373  | 53   | 204  | 1st " "   |
|                                       | ι    | Asansol                            | 474  | 74   | 232  | 14th September 1910.  |
|                                       | 201  | Total                              | 1,484                                      | 207  | 852  |   |
| Birbhum                               |      | Suri                               | 125  | 16   | 21   | 1st July 1881.  |
|                                       | ſ    | Bankura                            | 442  | 44   | 204  | 1st July 1883.  |
| Bankura                               |      | Vishnupur                          | 469  | 54   | 14   | 1st "   |
|                                       | L    | Sonamukhi                          | 340  | 51   | 119  | 6th June 1892.  |
| 1 1 1                                 |      | Total                              | 1,251                                      | 149  | 337  | and the second  |
|                                       | -    | Midnapur                           | 548  | . 27   | 97   | 1st July 1883.  |
|                                       |      | Ghatal                             | 360  | 32   | 75   | lst "   |
|                                       |      | Kharar                             | 104  | 13   |  | 16th August 1889.   |
| Midnapur                              |      | Chandrakona                        | 141  | 35   |  | 1st July 1883.  |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |      | Ramjibanpur                        | 146  | 15   |  | 1st   |
| 1-1                                   |      | Khirpai                            | 79   | 16<br>17   | 9  | lst ", "  |
| 1 = 1                                 | L    | Tamluk                             | 166  | 11   | 41   | lst " "   |
|                                       | 1.22 | Total                              | 1,544                                      | 155  | 222  | 4   |
| 181                                   | 8    |                                    |  |  | *****  |   |
|                                       | c    | Hooghly-Chinsura                   | 864  | 164  | 337  | 1st September 1881.   |
|                                       |      | Bansberia                          | 91   | 16   | 17   | 1st July 1883.  |
|                                       | 8.4  | Arambagh                           | 131  | 34   | 19   | 11th February 1889.   |
|                                       |      | Serampur                           | 655  | 72   | 411  | 1st March 1883.   |
| 111                                   |      | Uttarpara                          | 192  | 24   | 74   | 1st April "   |
| Hooghly                               |      | Kotrung                            | 150<br>407                                 | 21<br>52   | 37   | 1st July "<br>1st " "   |
| 1                                     |      | Baidyabati<br>Bhadreswar           | 339  | 61   | 161  | lst " "   |
|                                       | 1.   | Rishra-Konnagar                    | 388  | 53   | 83   | (It formerly formed a par   |
|                                       |      |                                    |  | 1  | -  | of the Scrampu<br>Municipality.)                                    |
|                                       | l    | Champdani                          | 340  | 30   | 15   | (It formerly formed<br>part of the Baidyaba                         |
| 121                                   |      | Total                              | 3,557                                      | 527  | 1,326  | and Bhadreswar Mun<br>cipalities.)                                  |
|                                       |      |                                    | 1.001                                      | 1.07/  | 1.500  | lot April 1000  |
| Howrah                                | {    | Howrah                             | 4,861                                      | 1,374  | 1,589  | 1st April 1882.   |
|                                       | l    | Bally                              | 385  | 39   | 186  | 1st October 1884.   |
|                                       |      | Total                              | 5,246                                      | 1,413  | 1,775  | THE REAL  |
|                                       |      | Total of the Burd-<br>wan Division | 13,207                                     | 2,467  | 4,533  | d'auti  |
| 94 Deserves                           | ſ    | South Suburban                     | 877  | 138  | 745  | 1st October 1883.   |
| 24-Parganas                           | )    | Tollyganj .                        | 457  | . 56   | 462  | lst ", "  |
|                                       |      |                                    | 1  | 125.172  | 1  | (It formerly formed a par<br>of the South Suburba<br>Municipality.) |

| And the second se | 11 11 11 11 11 11 11 11 11 11 11 11 11  |  |   |  |   |
|---|---|--|---|--|---|
| District,   | Town.   | Number of<br>births<br>during<br>the year. | Number of<br>deaths<br>amongst<br>children<br>under one<br>year during<br>the year. | Number of<br>successful<br>vaccinations<br>on children<br>under one<br>year during<br>the year<br>ending 31st<br>March 1929. | Date of extension of Vaccination<br>Act to town.  |
| 1   | 2   | 3  | 4   | 5  | 6   |
|   |   |  |   |  |   |
|   | Budge-Budge<br>Baranagar<br>Kamarhati   | 301<br>794<br>386                          | 9<br>105<br>32  | 172<br>260<br>196  | 18th February 1902.<br>1st October 1883.<br>1st ", ",<br>(It formerly formed a part<br>of the Baranagar<br>Municipality.) |
| 17  | Rajpur  | 285  | 36  | 29   | 1st October 1883.   |
| The EVIC  | Baruipar<br>Jaynagar<br>North Dum-Dum<br>South Dum-Dum<br>Khardah<br>Barrackpur includ- |  | $10 \\ 11 \\ 17 \\ 52 \\ 6 \\ 14$   | 51<br>11<br>3<br>148<br>33<br>45   | lst ,. ,,<br>lst ,, ,,<br>lst ,, ,,<br>lst ,, ,,<br>lst ,, ,,<br>(They formerly formed                                    |
| · · · · · · · · · · · · · · · · · · ·   | ing Barrackpur<br>Cantonment.   |  |   |  | barrackpur Muni-  |
| and the second second   | Panihati  | 288  | 38  | 197  | cipality.)  |
| and the second  |   |  |   | Labora I   | ,   |
| 24 Parganas {   | North Barrackpur<br>Titagarh .  | . 319<br>700                               | 33<br>55  | 149<br>210   | 1st October 1883.<br>1st "" (It formerly formerl  |
| 1984  | Los Lent in   | 1  | 100   |  | a part of the South<br>Barrackpur Munici-   |
| (1981 - 1880)   | a la la   | 120  | 1 1 1   | init.  | pality.)  |
| Prepiper  | Garulia   | 190  | 32  | 49   | 1st October 1882.<br>(It formerly formed a part<br>of the North Barrack-<br>pur Municipality.)                            |
|   |   |  |   | mishivke.v.  | analy in the second second second   |
|   | Naihati   | 365  | 46  | 94   | 1st October 1883.   |
|   | Halisahar   | 93   | 13<br>12  |  | lst ", "  |
| in least.   | Kanchrapara<br>Bhatpara   | 306<br>1,237                               | 12  | 3<br>360   | } (They formerly formed<br>parts of the Naihati<br>Municipality.)   |
|   | Barasat   | 105  | 11  | 20   | 1st October 1893.   |
|   | Gobardanga  | 51   |   |  | 1st ,, ,,   |
|   | Basirhat  | . 664                                      | 89  | 339  | 1st " "   |
|   | Baduria   | 173  | 8   | 126  | 1st ,, ,,   |
| Part 1882   | Taki  | 158  | 21  | 77   | lst ,, ,,   |
| and the second second   | Total   | 8,634                                      | 1,001   | 3,779  |   |
| a contraction   |   |  |   |  | Thereadland and and   |
| Tabl guan   | 1 244 187 Jan   |  |   | - Laid   | enui2   |
| Calcutta  | Calcutta  | 22,044                                     | 5,772   | 13,051   | 1880.   |
| orember 1524.   | K RECE T  | 100  |   | and the  | Renaries Contract   |
|   | 101   | 1 270                                      |   | 72.0   | 10.24 4 120   |
|   | Krichnows   | 200  |   | 00   | lat Ostober 1999  |
| and a second second   | Krishnagar<br>Nabadwip  | 386<br>275                                 | 32<br>32  | 80<br>34   | 1st October 1883.   |
| .NRI valu   | Ranaghat  | 171  | 32<br>14  | 153  | Int   |
|   | Birnagar  | 75   | 18  | 27   | 1st ,, ,,   |
| Nadia   | Santipur  | 618  | 63  | 45   | 1st ,, ,,   |
|   | Chakdaha  | 83   | 8   | 36   | 28th January 1887.  |
| Treat Arrest  | Kushtia   | 117  | 11  | 19   | 1st October 1883.   |
| 10 May 1887.  | Kumarkhali<br>Meherpur  | 71   | 14  | 70<br>40   | lst , , , ,   |
| trade in C  | Menerpur  | 165  | II .  | 40   | 1st ,, ,,   |
|   | Total   | 1,961                                      | 203   | 504  |   |

| District.     | Town.<br>2                                   | Number of<br>births<br>during<br>the year.<br>3 | Number of<br>deaths<br>amongst<br>children<br>under one<br>year during<br>the year,<br>4 | Number of<br>successful<br>vacchations<br>on children<br>under one<br>year during<br>the year<br>ending 31st<br>March 1929.<br>5 | Date of extension of Vaccination<br>Act to town,  |
|---------------|--|---|--|--|---|
| and mary      | Berhampur<br>Murshidabad<br>Jiaganj-Azimganj | 507<br>196<br>238                               | 81<br>36<br>43   | 112<br>34<br>97  | 1st October 1883.<br>1st , , ,<br>1st , , ,<br>(It formerly formed a part               |
| Murshidabad < | Kandi<br>Jangipur<br>Dhulian                 | 195<br>344<br>246                               | 24<br>14<br>22   | 241<br>111<br>126  | of the Murshidabad<br>Municipality.)<br>1st October 1883.<br>1st """<br>26th Jane 1910. |
|               | Total  | 1,726   | 220  | 721  |   |
| Jessore {     | Jessore<br>Kotchan-lpur<br>Maheshpur         | $138 \\ 67 \\ 51$                               | 5<br>8<br>17   | 19<br>8<br>4   | 1st October 1883.<br>1st February 1884.<br>1st October 1883.                            |
|               | Total  | 256   | 30   | 31   | that - waspell is   |
| Khulna{       | Khulna<br>Satkhira<br>Debhatta               | 193<br>249<br>100                               | 39<br>65<br>9  | 37<br>169<br>71  | 1st July 1887.<br>7th July 1883.<br>1st October 1883                                    |
|               | Total  | 542   | 113  | 277  | and a set   |
|               | Total of the Presi-<br>dency Division.       | 35,163  | 7,339  | 18,363   |   |
| Rajshahi{     | Rajshahi<br>Nator                            | 537<br>142                                      | 68<br>39   | 493<br>2   | 1st June 1881.<br>1st January 1881  |
| itter i vite  | Total  | 679   | 107  | 495  |   |
| Dinajpur      | Dinajpur                                     | 91  | 11   | 266  | 1st January 1887.   |
| Jalpaiguri    | Jalpaiguri                                   | 336   | 14   | 322  | 1st January 1887.   |
| Darjeeling{   | Darjeeling<br>Kurseong                       | 556<br>271                                      | 41<br>43   | 776<br>244   | 1st September 1884.<br>1st January 1887.  |
|               | Total  | 827   | 84   | 1.020  |   |
| -             | Rangpur                                      | 315   | 28   | 100  | 1st July 1881.  |
| Rangpur       | Gaibandha                                    | 110   | 4  | 1  | 20th November 1924.   |
|               | Total  | 425   | 32   | 101  |   |
| Bogra         | Bogra  | 97  | 16   | 372  | 1st January 1882.   |
| Bogra {       | Sherpur                                      | 63  | 14   | 8  | 1st October 1884.   |
|               | Total  | 160   | 30   | 380  |   |
| Pabna         | Pabna  | 198   | 30   | 196  | 1st February 1882.  |
|               | Sirajganj                                    | 507   | - 72   | 316  | 1st January 1887.   |
|               | Total  | 705   | 102  | 512  | State State State   |

\*

| Distric    |             | Town,                            |       | Number of<br>births<br>during<br>the year, | Number of<br>deaths<br>amongst<br>children<br>under one<br>year during | Number of<br>successful<br>vaccination<br>on children<br>under one<br>year during<br>the year | Date of extension of Vaccination<br>Act to town, |
|------------|-------------|----------------------------------|-------|--|--|---|--|
|            | - Carbon    | 12 change                        |       |  | the year.  | ending 31st<br>March 1929,  |  |
| 1          | Se per a    | 2                                |       | 3  | 4  | 5   | 6  |
|            |             |                                  |       |  |  |   |  |
| falda      | ĺ           | English Bazar<br>Malda           |       | 358  | 25   | 261   | 1st March 1883.                                  |
| aalda      | 1           | Navabganj                        |       | 9 75<br>457                                | 11<br>60   | 92  | 1st April 1887.<br>12th May 1904.                |
|            |             |                                  |       |  | 0.0  |   | and a second second                              |
|            | 1 225       | Total                            | ••    | 890  | 96   | 353   |  |
|            | 1.122       | Total of the Raj<br>Division.    | shahi | 4,113                                      | 476  | 3,449   |  |
|            | " September | and the                          | ALLEY | 198.0                                      | inter.   |   | Lifest for the statistics                        |
|            | ſ           | Dacca                            |       | 4,224                                      | 1,045  | 2,001   | 1st July 1887.                                   |
| Dacca      | 1           | Narayanganj                      |       | 1,059                                      | 272  | 152   | lst ", "   |
|            | W.C.        | Total                            |       | 5,283                                      | 1,317  | 2,153   | tenter and and                                   |
|            | ~           | and a state of the               | 1000  |  |  |   | lat Oatabas 1007                                 |
|            | A Part      | Mymensingh<br>Muktagacha         |       | 496<br>99                                  | 96<br>15   | 21<br>23  | 1st October 1887.                                |
|            |             | Netrakona                        |       | 228  | 48   | 38  | 20th January 1890.                               |
|            |             | Jamalpur                         |       | 507  | 78   | 2   | 1st October 1887.                                |
| lymensingh |             | Sherpur                          |       | 578  | 35   | 48  | 1st " "  |
|            |             | Kisborganj                       |       | 222  | 33   | 61  | lst ,, ,,  |
|            |             | Bajitpur                         |       | 150  | 31   | 22  | 1st "," ","                                      |
|            | [           | Tangail<br>Gouripur              |       | 234<br>48                                  | 36<br>7  |   | 19th February 1890.                              |
|            | -           | Total                            |       | 2,562                                      | 379  | 215   | 1000 100 100 1000 1000 1000 1000 1000            |
|            | C           | Faridpur                         |       | 216  | 38   | 118   | 1st October 1887.                                |
| aridpur    |             | Madaripor                        |       | 504  | 53   | 70  | 1st  |
|            |             | Rajbari                          |       | 153  | 22   | 43  | 20th November 1924.                              |
|            | -           | Total                            |       | 873  | 113  | 231   | Contraction of the second                        |
|            | ſ           | Barisal                          |       | 435  | 85   | 46  | 1st October 1887.                                |
|            |             | Jhalakati                        |       | 55   | 12   | 1   | lst " "  |
| lakarganj  |             | Nalchiti                         |       | 17   | 1  |   | lst " "  |
|            |             | Pirojpur                         | •••   | 288  | 40   | 294   | 1st January 1890.                                |
|            | i           | Patuakhali<br>Bhola              |       | 90<br>98                                   | 14<br>3  | 6   | 25th January 1891.<br>8th November 1922.         |
|            | 1.7.1.0     | Total                            |       | 983  | 155  | 347   |  |
|            | 5-65-       |                                  | ••    |  |  |   |  |
|            | 6.20        | Total of the I<br>Division.      | Aacca | 9,701                                      | 1,964  | 2,946   |  |
|            | ſ           | Chittagong                       |       | 813  | 160  | 167   | 1st April 1887.                                  |
| hittagong  |             | Cox's Bazar                      |       | 66   | 5  | 42  | 14th November 1892.                              |
|            | 149.5       | Total                            |       | 879  | 165  | 209   |  |
|            |             |                                  | 1.4   |  |  |   | 1.1.1.11.1007                                    |
| ippera     | 1           | Comilla<br>Brahmanbaria          | ••    | 213<br>701                                 | 11<br>96   | 60<br>167   | 1st April 1887.                                  |
| ippera     | 1           | Chandpur                         |       | 161  | 25   | 81  | 1st<br>22nd July 1898.                           |
|            |             | Total                            |       | 1,075                                      | 132  | 311   |  |
| loakhali   |             | Noakhali                         | -     | 138  | 25   | 13  | 1st April 1887.                                  |
|            |             | Total of the Ch<br>gong Division | itta- | 2,092                                      | 322  | 533   |  |
|            |             |                                  |       | 84.070                                     | 19 500   | 90.004  |  |
|            |             | Total for the I<br>dency.        | Tes1- | 64,276                                     | 12,568   | 29,824  |  |

### PROVINCIAL STATEMENT A.

| Districts.                    | Rural<br>population<br>among which<br>vaccinations<br>were<br>performed. | Number of<br>births during<br>the year, | Mortality<br>among infants<br>under one<br>year. | Surviving<br>population<br>under one<br>year<br>available for<br>vaccination. | Number<br>successfully<br>vaccinated. | Proportion of<br>persons<br>successfully<br>vaccinated<br>per 1,000 of<br>population<br>as shown in<br>column 5. | Proportion of<br>persons<br>successfully<br>vaccinated<br>per 1,000 of<br>population<br>during<br>1927-28. |
|-------------------------------|--|---|--|---|---------------------------------------|--|--|
| 1                             | 2  | 3                                       | 4  | 5   | 6                                     | 7  | 8  |
| Jalpaiguri                    | 921,749  | 31,056                                  | 5,942  | 25,114  | 12,659                                | 504-1  | 419-6  |
| Nadia                         | 1,390,704  | 47,585                                  | 9,508  | 38,077  | 18,235                                | 479  | 388.1  |
| Darjeeling                    | 254,045  | 9,324                                   | 1,454  | 7,870   | 3,656                                 | 464-4  | 404-6  |
| Malda                         | 955,830  | 31,845                                  | 4,577  | 27,268  | 12,529                                | 459-4  | 479.1  |
| Murshidabad                   | 1,182,983  | 50,269                                  | 7,871  | 42,398  | 19,365                                | 456 - 7  | 517.4  |
| 24-Parganas                   | 1,998,318  | 57,947                                  | 8,361  | 49,586  | 15,739                                | 317-4  | 407.3  |
| Khulna                        | 1,421,116  | 48,032                                  | 8,465  | 39,567  | 12,256                                | 309.7  | 377-5  |
| Dinajpur                      | 1,687,328  | 59,908                                  | 11,551   | 48,387  | 14,890                                | 307 · 9  | 355 - 7  |
| Bankura                       | 961,487  | 36,431                                  | 6,083  | 30,348  | 8,923                                 | 294  | 193.02   |
| Pabna                         | 1,344,633  | 30,242                                  | 5,704  | 24,538  | 7,077                                 | 288.4  | 325-5  |
| Burdwan                       | 1,343,185  | 38,600                                  | 8,113  | 30,487  | 8,577                                 | 281.5  | $231 \cdot 2$  |
| Howrah                        | 778,893  | 21,821                                  | 3,610  | 18,211  | 4,978                                 | 273.3  | 280.8  |
| Rajshahi                      | 1,457,037  | 45,611                                  | 9,326  | 36,285  | 9,257                                 | $255 \cdot 1$  | 487-1  |
| Noakhali                      | 1,465,071  | 49,268                                  | 6,444  | 42,824  | 9,129                                 | 213 · 1  | 245-3  |
| Rangpur                       | 2,782,722  | 77,765                                  | 19,010   | 58,755  | 11,039                                | 187-8  | 216-3  |
| Chittagong                    | 1,570,760  | 46,768                                  | 6,778  | 39,990  | 7,021                                 | 175-6  | 140.9  |
| Tippera                       | 2,678,627  | 68,135                                  | 9,013  | 59,122  | 10,243                                | 173-2  | 238.8  |
| Birbhum                       | 838,655  | 30,674                                  | 5,752  | 24,922  | 4,272                                 | 171-4  | 188.5  |
| Jessore                       | 1,700,924  | 39,377                                  | 6,658  | 32,719  | 5,422                                 | 165 - 6  | 334 · 1  |
| Hooghly                       | 900,802  | 25,141                                  | 4,509  | 20,632  | 3,086                                 | 149.5  | 157.3  |
| Midnapur                      | 2,595,071  | 81,425                                  | 12,554   | 68,871  | 9,031                                 | 131-1  | 228.3  |
| Bogra                         | 1,032,300  | 28,113                                  | 5,817  | 22,296  | 2,895                                 | 129.8  | 137 • 1  |
| Dacca                         | 2,975,915  | 86,492                                  | • 15,663   | 70,829  | 9,141                                 | 129  | 115.3  |
| Chittagong Hill Tracts        | 173,243  | 5,127                                   | 913  | 4,214   | 366                                   | 86.8   | 138.1  |
| Mymensingh                    | 4,703,249  | 113,768                                 | 22,833   | 90,935  | 7,795                                 | 85.7   | 95.6   |
| Faridpur                      | 2,202,783  | 65,455                                  | 11,719   | 53,736  | 3,525                                 | 65.6   | 77-9   |
| Bakarganj                     | 2,563,849  | 78,331                                  | 13,178   | 65,153  | 2,050                                 | 31 · 4   | 41 · 2   |
| Total of the Rural circles.   | 43,584,279   | 1,304,510                               | 229,406  | 1,075,104   | 233,158                               | 216.9  | 246.7  |
| Calcutta                      | 1,077,264  | 22,044                                  | 5,772  | 16,272  | 13,051                                | 802.05   | 856-8  |
| Mufassal Municipali-<br>ties. | 2,033,993  | 42,232                                  | 6,796  | 35,436  | 16,773                                | 473-3  | 511.7  |
| GRAND TOTAL                   | 46,695,536   | 1,368,786                               | 241,974  | 1,126,812   | 262,982                               | 233-3  | 261-4  |

### Showing the degree of protection afforded to infants during the year 1928-29.

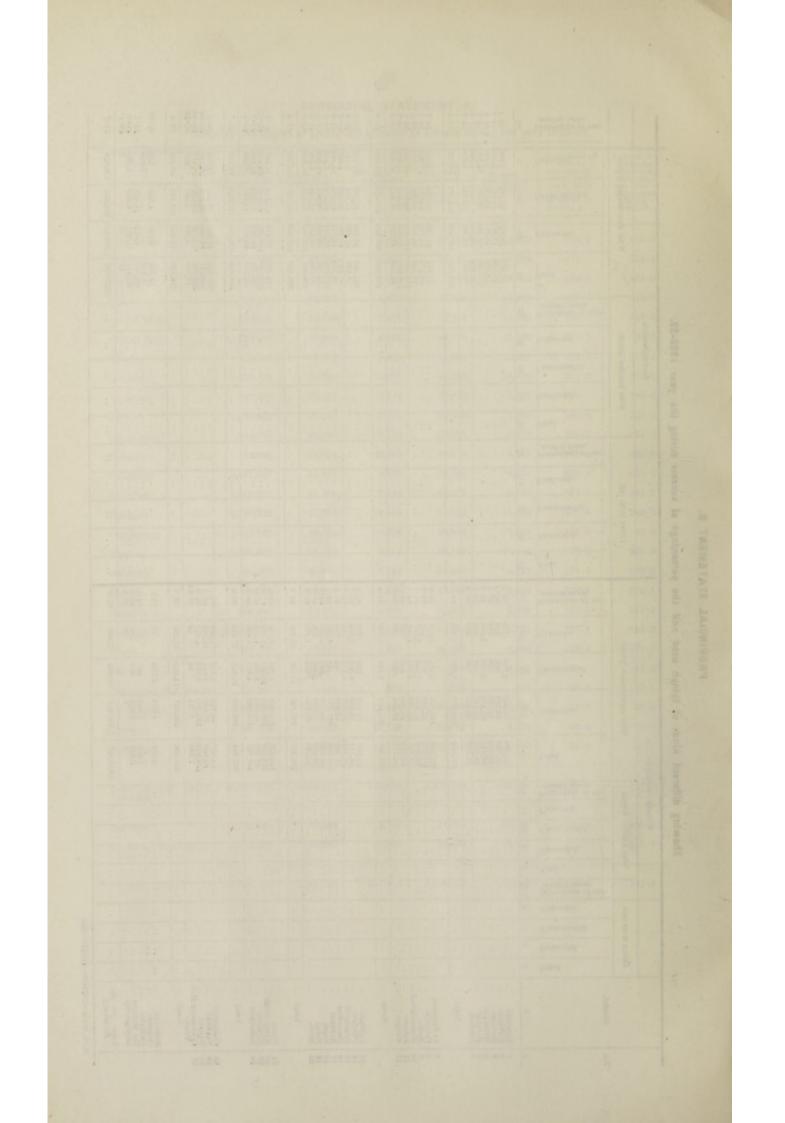
PROVINCIAL STATEMENT B.

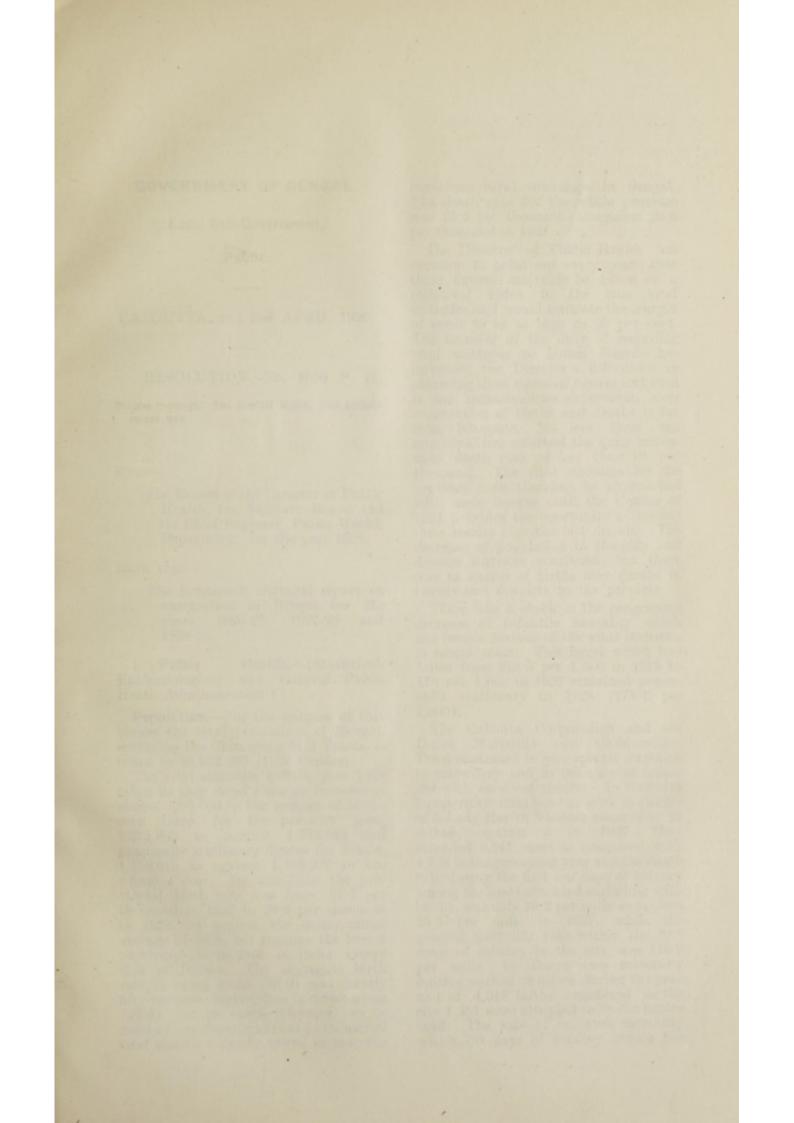
# Showing different kinds of lymph used and the percentage of success during the year 1928-29.

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|                      |                     | Percentage of suc-                    | 20    | 525 3<br>525 9<br>617 5<br>617 5 | 52.8      | 1-00-00<br>10-12<br>10-12<br>10-12<br>10-12                            | 52-4       | 10107999<br>22112198  | 1-19      |  | 2.99      | 38.0<br>38.00<br>50.23                                | 53-4      | 1.02<br>1.02<br>1.02<br>1.02                                       | 56.7                         |
|----------------------|---------------------|---------------------------------------|-------|---|-----------|--|------------|---|-----------|--|-----------|---|-----------|--|------------------------------|
|                      | uph.                | .птоплаU                              | 31    | 1,986<br>2,533<br>2,533<br>3,335<br>4,214   | 16,579    | 5,556<br>6,018<br>6,018<br>47,271<br>14,005<br>10,825                  | 101,968    | 14,750<br>5,757<br>5,757<br>5,757<br>5,757<br>14,750<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802<br>14,802  | 163,880   | 19,507<br>30,435<br>16,169<br>3,209          | 69,320    | 13,600<br>52,756<br>23,175<br>257                     | 80,908    | 1,879<br>1,879<br>5,534  | 479,629                      |
|                      | glycerinated lymph  | Unuseoonan <sup>U</sup>               | 30    | 25,212<br>10,857<br>12,576<br>50,508<br>7,589<br>12,425   | 119,167   | 26,609<br>15,005<br>94,585<br>94,585<br>10,919<br>31,941               | 257,978 10 | 25,532<br>15,963<br>15,963<br>18,279<br>18,279<br>18,479<br>18,479<br>18,479<br>18,479<br>18,479<br>18,479<br>18,479  | 83,949    | 7285   | 171,626   | 20,528<br>51,228<br>5,395                             | 52,188    | 4,993  | 916,263 4                    |
|                      | With glycer         | Successful.                           | 29    | 29,878<br>17,008<br>10,281<br>94,224<br>22,332<br>12,002  | 85,885 1  | 47,229<br>15,723<br>30,165<br>80,653<br>47,227                         | 397,048 2  | 96,580<br>51,529<br>51,529<br>16,296<br>16,013<br>91,675<br>16,024<br>16,024<br>18,541<br>25,541  | 641,223 1 |  | 303,084 1 | 42,697<br>56,968<br>5,968<br>5,906                    | 1 206'223 | 9,219<br>7,615<br>11,321   | ,833,310 9                   |
|                      | W                   | .fetoT                                | 85    | 57,076<br>30,398<br>24,838<br>177,362<br>33,316<br>28,641   | 351,631 1 | 80,024<br>82,275<br>57,189<br>311,306<br>136,207<br>136,207<br>89,993  | 756,994 3  | 72,649<br>37,648<br>37,648<br>50,202<br>50,791<br>50,791<br>57,836<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30,791<br>30  | 904,452 6 |  | 044,030 3 | 108,925<br>149,577<br>249,739<br>11,758               | 519,999 2 | 14,766<br>1.879<br>2.0.17<br>23,415<br>19                          | 229,202 1,                   |
|                      | _                   | Percentage of suc-<br>cessital cases. | 12    | ::::::  |           | ::::::   |            | ::::::::  | :         | ::::   | :         | ::::  | :         | :::::  | :                            |
| Re-vaccination.      | lymph.              | Unknown.                              | 26    | ::::::  |           |  |            | :::::::   | :         | : : : :                                      | :         | ::::  |           |  | :                            |
| Re-vacc              | lanoline ly         | Unservoreseful.                       | 25    | ::::::  | :         | :::::  |            |   |           | ::::   | :         |   | :         | :::::  | :                            |
|                      | With h              | Successful.                           | 54    |   | :         |  | :          | :::::::   | :         | ::::   | :         | ::::  | :         | :::::  | :                            |
|                      |                     | cessful cases.<br>Total.              | 50    | ::::::  | 1.1.1     | :::::  | **         | :::::::   | :         | . : : : :                                    | :         | ::::  |           | :::::  | :                            |
|                      |                     | Unknown.                              | 1 200 |   |           |  |            |   |           |  |           |   |           |  | :                            |
|                      | Direct from calf.   | Unsuccessful.                         | 20 21 |   |           |  |            |   |           | ::::   | :         | ::::  | :         |  | :                            |
|                      |                     | Successful.                           | 19    | ::::::  |           | :::::  |            | ::::::  |           | ::::   | :         | ::::  |           | :::::  | :                            |
|                      |                     | .letoT                                | 18    | ::::::  |           |  |            |   |           | ::::   |           | ::::  |           | :::::  | :                            |
|                      |                     | Percentage of suc-<br>cessful cases.  | 17    | 95-2<br>96-4<br>96-1<br>96-0  | 84-5      | 94-6<br>95-6<br>94-5<br>94-1<br>98-3<br>98-3                           | 95.6       | 91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>9191-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>91-1<br>910 | 92.3      |  | 8.06      | 95-5<br>82-1<br>92-9                                  | 2.06      | 121<br>122<br>123<br>123<br>123<br>123<br>123<br>123<br>123<br>123 | 92-4                         |
|                      | ph.                 | .awoasa T                             | 16    | 385<br>274<br>340<br>5,500<br>402<br>406  | 7,433     | 2,630<br>556<br>1,817<br>1,081<br>1,951<br>328                         | 6,109      | 2,008<br>21,008<br>21<br>710<br>4,967<br>2,965<br>2,965<br>1,738  | 13,748    | 6,106<br>15,933<br>1,416<br>4,400            | 27,855    | 11,009<br>111,983<br>4,425<br>19                      | 17,526    | 34<br>250<br>1   | 72,986                       |
|                      | ated lymph          | Unsuccessful.                         | 15    | 2,7118<br>823<br>920<br>2,876<br>2,876<br>7,876<br>7,876  | 8,850     | 4,011<br>472<br>472<br>472<br>472<br>472<br>672<br>662<br>6620<br>6620 | 9,993      | 254<br>4,963<br>1,413<br>3,122<br>2,962<br>2,962<br>2,962<br>855  | 15,592    | 6,796<br>19,285<br>1,330<br>4,615            | 32,026    | 2,643<br>4,047<br>5,157<br>56                         | 11,903    | 1,750<br>  | 80,964                       |
|                      | With glycerina      | Successful.                           | 14    | 61,567<br>29,629<br>42,559<br>89,275<br>28,115<br>30,131  | 281,276   | 116,635<br>22,849<br>55,470<br>54,420<br>42,306<br>42,306<br>59,784    | 351,464    | 25,158<br>79,050<br>26,047<br>103,794<br>103,794<br>26,716<br>56,953<br>56,953<br>28,135  | 355,895   | 136,568<br>236,962<br>64,841<br>159,692      | 598,063   | 80,785<br>73,638<br>126,883<br>7,771                  | 289,077   | 4,620<br>7,463<br>9,012  | 1,896,877                    |
| Primary vaccination. | -                   | JatoT                                 | 13    | 64,670<br>30,726<br>43,819<br>97,717<br>29,244<br>31,383  | 297,550   | 123,276<br>23,877<br>58,689<br>57,797<br>48,158<br>60,774              | 367,566    | 25,807<br>86,111<br>876,181<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>111,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>110,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850<br>100,850  | 385,235   | 149,470<br>272,180<br>67,587<br>168,707      | 657,944   | 84,527<br>89,668<br>136,465<br>7,846                  | 318,506   | 6,404<br>7,930<br>9,675<br>8                                       | 2,050,827                    |
| vacci                | ph.                 | Percentage of suc-                    | 12    | ::::::  | -         | :::::  | :          | :::::::   | :         | ::::   | :         | ::::  | :         | :::::  | :                            |
| inary                | brm,                | Паквочть.                             | =     | ::::::  | :         | ::::::   | :          |   | :         | ::::   | :         | ::::  |           | :::::  | :                            |
| E                    | With handline fymph | Unsuccessful.                         | 10    |   |           | ::::::   | :          |   | :         | ::::   | :         | ::::  | :         | :::::  | :                            |
|                      | ith la              | Successful.                           | 0     | ::::::  | -         | ::::::   | :          | :::::::   | :         | ::::   | ••        | ::::  | :         | :::::  | :                            |
|                      | M                   | JatoT                                 | 30    | :::::   | -         | :::::  | :          | :::::::   | :         | ::::   | :         | ::::  |           | :::::  | :                            |
|                      |                     | Percentage of auc-                    | i's   |   | :         | ::::::   |            |   | :         | ::::   | :         | ::::  | :         |  | :                            |
|                      | call.               | .awoadaU                              | 10    |   | :         | ::::::   | :          | :::::::   | :         | ::::   | :         | ::::  | :         | :::::  | :                            |
|                      | from                | Unassental.                           | 10    |   | :         |  | :          | :::::::   | :         | ::::   | :         | ::::  | :         | :::::  | 1                            |
|                      | Direct from calf.   | Successful.                           | +     | 111111  | 1         | :::::  | :          | 11111111  | :         | ::::   | -         | ::::  | :         | :::::  | :                            |
|                      | -                   | Total.                                | 85    | ::::::  | :         | ::::::   | :          |   | :         | ::::   | :         | ::::  |           | :::::  | :                            |
|                      |                     | District.                             | 03    | Burdwan<br>Birdhum<br>Bankum<br>Mankura<br>Manapur<br>Hooghbr   | Total     | 24-Parganas<br>Calentta<br>Nadis<br>Murshidabad<br>Jessore<br>Khulna   | Total      | Rajshahi<br>Di Agashahi<br>Jahasguri<br>Darjeeling<br>Bangpur<br>Bangpur<br>Pabna<br>Malda  | Total     | Pacca<br>Mymensingh<br>Partigur<br>Bakarganj | Total     | Chittagong<br>Noakhali<br>Tippera<br>Chittagong H ili | Total     | Railways<br>Steamers<br>Factories<br>Tea Gardens                   | Total for the<br>Presidency. |
| -                    |                     | No.                                   | 1     |   |           | 1212°8 -1  |            | 222212212   |           | ជនជន   |           | ****  |           |  |                              |

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### GOVERNMENT OF BENGAL.

### Local Self-Government.

### Public.

CALCUTTA, THE 2nd APRIL 1930.

RESOLUTION-No. 1050 P H

Minister-in-charge: The Hon'ble Kumar Shib Shekhareswar Ray.

READ-

The Report of the Director of Public Health, the Sanitary Board and the Chief Engineer, Public Health Department, for the year 1928.

READ ALSO-

The fourteenth triennial report on vaccination in Bengal for the years 1926-27, 1927-28 and 1928-29.

1. Public Health.—(Statistical, Epidemiological and General Public Heath Administration.)

**Population.**—For the purpose of this review the total population of Bengal, excluding the Chittagong Hill Tracts, is taken as 46,522,293 (1921 Census).

The vital statistics for the year 1928 taken as they stand show an increase of almost 1,00,000 in the number of births over those for the previous year, 1,375,680 as against 1,286,863 and practically stationary figures for deaths, 1,189,015 as against 1,189,370 in the previous year. On this basis the provincial birth rate rose from 27.7 per thousand in 1927 to 29:6 per thousand in 1928, as against the quinquennial average of 28.8; but remains the lowest provincial birth rate in India except that of Burma. The aggregate birth rate in rural areas (30:2) was nearly fifty per cent. higher than in urban areas (20:4), but no exact inference can be drawn from these figures as to industrial vital statistics as the towns include the numerous rural townships in Bengal. The death rate for the whole province was 25:5 per thousand as against 25.6 per thousand in 1927.

The Director of Public Health has occasion to point out every year that these figures can only be taken as a collateral index to the true vital statistics and would estimate the margin of error to be as high as 27 per cent. The transfer of the duty of recording vital statistics to Union Boards has increased the Director's difficulties in obtaining these essential figures and even in the municipalities supervision over registration of births and deaths is far from adequate. No less than ten municipalities returned the quite impossible death rate of less than 10 per thousand. The vital statistics for the province must therefore be approached with some reserve until the Census of 1931 provides the oportunity of testing their results over the last decade. The decrease of population in Hooghly and Jessore districts continued; but there was an excess of births over deaths in twenty-two districts in the province.

There was a check in the progressive decrease of infantile mortality which has been a feature of the vital statistics in recent years. This figure which had fallen from 228.3 per 1,000 in 1919 to 178 per 1,000 in 1927 remained practically stationary in 1928 (178.1 per 1,000).

The Calcutta Corporation and the Dacca Maternity and Child-welfare Trust continued to give special attention to midwifery and to the care of infant life with excellent results. In Calcutta 7 maternity units were at work in charge of 5 Lady Health Visitors assisted by 22 nurses, against 5 in 1927. They attended 6,541 cases as compared with 4.748 in the preceding year and the death rate during the first ten days of infancy among the cases attended excluding stillbirths, was only 19.2 per mille as against 35:5 per mille in 1927, while the general mortality rate within the first week of infancy in the city was 116:9 per mille. In Dacca two maternity centres worked as before during the year and of 4,318 births registered in the city 1,381 were attended to by the centre staff. The rate of reported mortality within 10 days of infancy among the

cases attended to by the staff was 4:2 per cent. as against 9:62 per cent. among infants in the rest of the town.

Over a thousand dais were given elementary training by local bodies or associations with the help of Government grant, and the total number of Exhibitions and Baby Weeks was more than doubled (166 as against 67).

Choiera.-The year 1928 continued to show a rise in the curve for mortality from cholera with a rate for Bengal in excess of that of any other province in India and more than double the quinquennial average. The total number of deaths was 136,245 in 1928 against 118,377 in 1927, showing an increase of 16 0 per cent. As in the previous year, preventive measures taken comprised inoculation, disinfection of water-supplies, disinfection of infected houses and of the patients' clothes. Eighteen medical officers and temporary staff of 5 Sub-Assistant Surgeons and 100 Sanitary Inspectors were deputed to assist local bodies in checking outbreaks. Propaganda work was carried on by means of lectures and magic lantern demonstration given by the Government Publicity staff and the local sanitary officers. Special measures were taken to inoculate pilgrims for the Puri Rathajatra and the Ganga Sagar Mela.

There was a further increase in inoculations for cholera during the year under review. 2,304,457 cubic centimeters of cholera vaccine were issued during 1928 against 1,299,630 in 1927 and the number of inoculations performed rose to 1,941,023 from 781,872 in 1927. It is to be remembered that preventive inoculation is a new measure in Bengal so that high figures for cholera mortality are likely to go hand in hand with activity in inoculation against cholera until the practice is sufficiently widespread to be adopted beforehand in anticipation of an epidemic.

Small-pox.—Even in the case of smallpox the statistics for 1928 go to show that the ideal of preventive efficiency in which vaccination can preclude an epidemic is far from having been reached. A quinquennial epidemic which had been forecasted began in 1924. The curve in 1928 was still rising, with 43,558 deaths as against 42,514 in 1925, and 5,567 in 1924 the zero year; and the one district which attempted an organized campaign of mass vaccination (Malda) was that which returned the highest

ratio of small-pox mortality 3.27 per thousand. The reason is obvious. Intensity of preventive action still follows. rather than anticipates, an epidemic; and this feature is further illustrated by the statistics for vaccination in the province as a whole. During the year under review there were 5,281,419 vaccinations of which 2,052,217 were primary vaccinations and 3,229,202 re-vaccinations, successful vaccinations being 92.9 per cent. and 56.5 per cent., respectively. The number of successfully vaccinated children under one year was 262,982 against 281,727 in the previous year. while the total number of births, excluding infant deaths of 241,974 was 1,126,812 auring the same period. Protection was therefore given to only about 24 per cent. of the surviving infants. This was due to the unwillingness of parents or guarians to have their children vaccinated under the age of one vear.

The Director of Public Health reports that district boards are actively engaged in organising vaccination to counter the further epidemic anticipated and Government have recently drawn their attention to the necessity of taking special steps for the purpose.

Malaria and kala-azar.-In contrast to the increase in the two periodical epidemics to which this province is exposed it is satisfactory to find a very definite decrease in mortality both from malaria and kala-azar. Deaths from malaria were reported at 368,691 as against 429,143 in 1927 and 458,208 in 1926. Even after allowances are made for the inevitable vagueness of returns on which statistics are based a reduction of over 24 per cent. in two years in deaths from a disease which in its nature is not liable to the sharply recurring curves of small-pox and cholera does seem to give grounds for hope that the attention and expenditure devoted to this cause by the Public Health Department in the past few years are bearing fruit. Similarly in the case of kala-azar the decline which was noticed as a satisfactory symptom in last year's report still continued, 10,746 deaths being reported as against 11,855 in 1927. The total number of deaths from fever 752,007 as against 789,006 in 1927 represents a nondescript mortality, the importance of the figure for the purpose of statistics being chiefly in the fact that the decrease precludes any idea that mortality from malaria has been transferred to this head.

In reviewing the record of District Boards in 1928-29 the Ministry of Public Health had occasion to dwell on the progress and prospects of the scheme for establishing a rural health unit in charge of a sanitary officer in each police station, and it need only be mentioned here that in 1928 the total number of these units had risen to 272, a figure by now nearly doubled.

Public Health Engineering.—During the year 1928 the Chief Engineer formally made over to the Titagarh Municipality the sewerage works constructed at a total cost of Rs. 10,67,405 including a Government grant of Rs. 3,55,000. These works represent the first attempt to sewer an industrial municipality in the mill area and are likely to prove of much interest as attention turns towards the improvement of industrial health in the vicinity of Calcutta. Technically their most interesting feature is the introduction of the new process of actuated sludge, the possibilities of which for a small sewerage scheme of this kind are far-reaching. For the rest the activities of the Engineering Branch continued on a scale restricted by the general financial conditions.

The Naihati water-supply scheme was completed and the unfiltered water required for the sewerage system was provided at Dacca. Work was in progress on water works at Khulna, Comilla Patuakhali, Faridpur, Pabna, Midnapore, Burdwan and Asansol.

**Personal.**—Dr. C. A. Bentley, C.I.E., and Mr. F. C. Griffin were in charge throughout the year of the respective offices of Director of Public Health and Chief Engineer, Engineering Branch, and the Government of Bengal desire again to express their appreciation of their services.

By order of the Government of Bengal [Ministry of Local Self-Government]

### (Public Health)],

### C. W. GURNER,

Secretary to the Government of Bengal.

### Nos. 1051-1061 P. H.

Copy of the Resolution [with copies of the reports] forwarded to (1) all Commissioners of Divisions for information and communication to all District Officers and all Chairmen of District Boards in their respective Divisions; (2) the Surgeon-General with the Government of Bengal; the Inspector-General of Prisons, and the Inspector-General of Police, Bengal; for information; (3) Director of Public Health, Bengal, the Chief Engineer Public Health Department, Bengal; and the Secretary to the Sani tary Board, Bengal, for information.

[ ] (1) and (2) only.

By order of the Government of Bengal

Ministry of Local Self-Government

(Public Health)],

### AMINUZZAMAN KHAN,

Assistant Secretary to the Government of Bengal.

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### **GOVERNMENT OF BENGAL.**

Local Self-Government Department.

Public Health.

No. 1130 P.H.

FROM C. W. GURNER, Esq., I.C.S., Secretary to the Government of Bengal,

TO THE SECRETARY TO THE GOVERNMENT OF INDIA, DEPARTMENT OF EDUCATION, HEALTH AND LANDS.

Calcutta, the 5th April 1928.

Annual Public Health Reports and Resolution for 1928.

Minister-in-charge: The Hon'ble Kumar Shib Shekhareswar Ray.

SIR,

I am directed to submit for the information of the Government of India copies of the reports noted below, together with a copy of the resolution recorded thereon :—

- (1) Report of the Public Health Department for 1928.
- (2) Triennial report on Vaccination in Bengal for the years 1926-27, 1927-28 and 1928-29.

I have the honour to be,

SIR,

Your most obedient servant,

C. W. GURNER,

Secretary to the Government of Bengal.

### GOVERNMENT OF SENGAL.

Local Soll-Governmont Department.

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### No. 1130 P.M.

Prov C. W. GURNER, Eco., 1995. Secolary to the Gamman of Science.

To THE SECRETARY TO THE GOVERNMENT OF INDIA. DEFAURMENT OF EDUCATORS, TRALES NO LANCE

Caldeda, the 6th Real 1928.

Annual Public Health Reports and Dealation for 1928

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I am directed to submit for the information of the foverunned of India copies of the reports-noted below, togother with a kepy of the resultion recorded thereon :-----

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 Triennish report, on Vamination in Bengal for the years 1026-27 1027-28 and 1928-20.

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Your most abledient serving.

O, W. GURNER, cretary to the Garconnext of Design



