

- (1) பத்தங்களின் எண்ணிக்கை 17/23
(2) புதுக்கித் திருப்பிய நாள்
(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

திருவாரூர் துறை

அரசாணை எண். 24/25 மு. கோப்புத் தாள் எண். 14-1-1889	அச்சகம் பலவகை
நாள் :	1989

மடிக்கவேண்டியபடி கையாணவேண்டாது.

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G.O., DATED 14.1.89.
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[Despatch Abstract.]

Vaccination.
Reviewing the report
on — for 1887-88.

1 Copy sent to
W. H. Robinson
24/1/89

Page Paper, No.

or 123

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Govt. of {1889} Madras.

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Encl.

G.O., &c., 14th January 1889,
Nos. 24, 25.

JANUARY.

Vaccination.

Reviewing the report on — for 1887-88.

Page Paper, No.

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These bad results have been already commented on in reviewing the administration reports of the individual Municipalities, and the matter will be further dealt with in the Local and Municipal Department in the general review of Municipal operations throughout the Presidency.

4. The number of operations performed by medical officers in and out of dispensaries shows a lamentable decrease, and the work of these officers has also been very unsatisfactory in regard to the percentage of successful cases. Of the operations performed inside dispensaries, only 82.6 were successful, while of those by medical officers outside, no less than 51.7 per cent. were failures. The special attention of the Surgeon-General is drawn to these figures. He will instruct District Surgeons to see that their subordinates perform more operations and do their work in a less perfunctory manner. Attention should also be given to the quality of the lymph supplied, which has, no doubt, much to do with the poor results obtained. It must be clearly understood that the existence of a separate vaccine staff does not in any way relieve medical officers of the duty of assisting the spread of vaccination by every means in their power.

5. The Government regret to notice that the number of cases inspected by 1st class Deputy Inspectors was on the whole only 48 per cent. of the number of operations in their ranges. The inspection work was particularly bad in the Chingleput, Permugudi, South Malabar, Namakal, Salem, South Canara I, and Jeypore ranges. The attention of the Sanitary Commissioner is drawn to the remarks made on this point in paragraph 11, G.O., 11th January 1888, No. 26, and he is requested to report how far he has punished Deputy Inspectors who failed to verify 50 per cent. of the operations in their ranges.

6. Animal vaccination was carried on in the districts of Bellary, Cuddapah, Kurnool, Godavari, Vizagapatam, Salem, South Arcot, and Tanjore. 13,587 operations were performed in this manner, but the percentage of successful cases was only 86.4. The average cost per successful case was, however, only 2 annas 4 pies against 4 annas 1 pie for operations generally.

7. The Government cannot characterize the work of the year as satisfactory, though on some points it shows improvement over the results of 1886. If the officials, and members of the various Boards and Councils concerned, took a personal interest in the matter, much more could be done even with the existing staff, and His Excellency the Governor in Council looks to those whose influence is of value in the cause of vaccination to use it to the utmost.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Sanitary Commissioner for Madras.

„ Surgeon-General with the Government of Madras.
„ Local and Municipal Department.
„ Military Department.

Copy to the Superintendent, Government Press.

ENDORSEMENT—dated 14th January 1889, No. 25, Public.

Copy to the Government of India, Home Department.

J. F. PRICE,
Chief Secretary.

Exd. A. Raitt.

14TH JANUARY 1889, Nos. 24, 25, PUBLIC.

GOVERNMENT OF MADRAS.

PUBLIC DEPARTMENT.

READ--the following paper:--

From the Sanitary Commissioner for Madras, dated 22nd August 1888, No. 1217.

ORDER--dated 14th January 1889, No. 24, Public.

This is the first year since 1877-78 in which the Vaccination Report has been separately submitted, instead of being incorporated with the Sanitary Commissioner's Administration Report. The change has been made at the desire of the Government of India, in order that the vaccine statistics may be given for the official, instead of, as hitherto, for the calendar, year.

2. The following statement shows the total number of vaccine operations performed in 1887-88 as compared with the four calendar years preceding. Figures for the European and Native Armies have not been given for the year under review, and the returns under this head have therefore been omitted from the totals of previous years:--

	1883.	1884.	1885.	1886.	1887-88.
Operations performed--					
(a) By Government vaccinators in Agency Tracts.	16,891	12,401	9,985	8,514	9,816
(b) .. Local Fund vaccinators	595,214	621,812	612,057	588,750	625,795
(c) .. Municipal vaccinators, including Madras..	96,274	112,812	96,922	74,012	75,535
(d) In Cantonments	4,551	4,158	2,933	3,154	3,937
(e) .. Dispensaries	13,230	22,563	23,616	17,243	14,174
(f) Other operations by medical subordinates ..	14,210	14,045	11,567	9,485	5,181
(g) In the Zemindaries of Jeypore and Arni ..	4,752	4,506	4,082	4,629	4,042
Total ..	745,122	792,303	761,162	705,587	738,480

It will be observed that the work of the year, though better than that of 1886, in consequence mainly of a slight increase in establishment, is still considerably below that of the three years preceding. The average proportion of successful cases was 94.3 in 100 against 94 in 1886.

3. Taken as a whole, the work of the Local Fund vaccinators shows considerable improvement, and the outturn is higher than in any previous year. The work of the Municipal vaccinators, on the other hand, continues very unsatisfactory, in spite of vaccination having been made compulsory in many towns within the last two years. The following towns show a decrease of over 10 per cent. in the number of operations as compared with 1886:--

Municipalities.	No. of Operations.	
	1886.	1887-88.
Bimlipatam	473	426
Coimbatore	1,091	969
Conjeevaram	1,925	967
Dindigul	778	630
Gudiyatam	375	283
Guntur	370	181
Madras	23,090	20,037
Mayavaram	797	705
Ongole	470	368
Ootacamund	623	506
Palni	669	585
Srirangam	602	229
Tanjore	1,514	1,249
Trichinopoly	3,701	3,118
Tirupati	265	113

Rev.
Review 2 vaccination
Report for 1887-88

G. 10/4
R. 12/4

inspected by 1st class Dr. Inspry was on the whole only 48 per cent of the number of operations in their ranges. The inspection work was particularly bad in the Chingliput, Permagudi, South Malabar, Kumbhal, Salem, South Canara, & Mysore ranges. The attention of the San. Comm. is drawn to the remarks made on this point in para 11 of 20. 11 Jan 1886 No 26, & he is requested to report how far he has permitted Dr. Inspry who failed to verify 50 per cent of the operations in their ranges.

6. Animal vaccine was carried on in the districts of Bellary, Chingleput, Kurnool, Godevarri, Vijayapet, Salem, S. Canara & Tanjore. 13,587 operations were performed in this manner, but the proportion of successful cases was only 86.4. The average cost per successful case was however only Rs. 4 pice.

in a satisfactory manner. Attention should also be given to the quality of the lymph supplied which has no doubt much to do with the poor results obtained. It must be clearly understood that the existence of a separate vaccine staff does not in any way relieve medical officers from the duty of assisting the spread of vaccine by every means in their power.

With reference to para 7 of the report it is not understood how the annual return per year should have been decided by 132 cases in continuation seeing that the total is compared with 1886, seeing that in 1887-88 there was an increase in the total amount of work done as shown in the table in para 1 above, & the staff employed appears to have remained the same.

The first report to notice that in spite of the remarks made in para 11 of 20. 11 Jan 1886 No 26, the number of cases

that is little in the way of vaccination work has been done by individuals in various charge of the S. P. Districts & Subdivisions.

generally

The Govt. cannot characterize the work of the vaccination of the year as at all satisfactory. Much more could be done. The officials, & heads & members of the various Bds. and Councils concerned took a personal interest in the matter, he himself out, even with the existing staff, and the Hon. Secy in C. had the influence of value in the cause of vaccination to see it to their utmost.

9 June

- 1. The San. Commr 6
- " Surg. Genl. 6
- " L. M. Dept. 6
- " Ind. Dept. 6
- copy to the Capt, Govt. Press. 3

Despatch No. 25.
copy to the Govt. of India
Home Dept.

* These bad results have been already commented on in reviewing the annual reports of the individual Municipalities & the matter will be further dealt with in the later report in the general review of municipal operations throughout the Prov.

4 The number of operations performed by med. officers ^{at dispensaries} ~~at~~ ⁱⁿ ~~the~~ ^{the} ~~dispensaries~~ shows a lamentable decrease & the work of these officers has also been very unsatisfactory in regard to the percentage of successful ^{cases} operations. Of the operations performed inside dispensaries only 82.6 were successful, while of those ~~done~~ ^{done} by med. officers outside no less than 51.7 per cent were failures. The special attention of the Surg. Genl. is drawn to these figures. He will instruct Dist Surgeons to see that their subordinates perform more operations & do their work

³ Taken as a whole the work of the local med. officers shows considerable improvement & the m.b. turn is higher than in any previous year. The work of the med. officers on the other hand continues very unsatisfactory, in spite of measures having been made compulsory in many towns within the last two years. The following towns show a decrease of over 10 per cent in the number of operations as compared with 1886.

Municipalities	No. of operations	
	1886	1887-88
Bimphatam	473	426
Coimbatore	1091	969
Conjavarum	1925	967
Dindigul	778	630
Gudivatam	375	283
Guntur	370	181
Madras	23,090	20,037
Mayavaram	797	706
Onole	470	368
Ootacamund	623	506
Palni	669	585
Srirangam	602	229
Tanjore	1,514	1,249
Trichinopoly	3,701	3,118
Tripali	265	113

from the lists of previous
years

operations performed by

- (a) fort. cases in genl.
trials
- (b) by local fund cases
- (c) by hum. cases, including
hedges
- (d) in Contaminants
- (e) in dispensaries
- (f) other operations by med. sub. G.
- (g) in the dispensaries of J. & P.
& L. & C.

1883

16891

595214

96274

4551

13230

14210

4752

745122

Total

1884

12401

621812

112812

4158

22569

14045

4506

792303

1885

9985

612057

96922

2933

23616

11567

4082

761162

1886

8514

588750

74012

3154

17243

94850

4629

705587

1887-88

9816

625795

75535

3937

14174

5181

4042

738480

It will be observed that the
work of the year, though better
than that of 1886, in consequence mainly
of a slight increase in establishment,
is still considerably below
that of the 3 years preceding.
The average proportion of
successful cases was 96.3
in 100 against 94 in 1886.

Taken as a whole the work of the Local Fund Vectors shows considerable improvement & the output is higher than in any previous year. The work of the Municipal Vectors on the other hand continues very satisfactory, in spite of measures having been made compulsory in many towns within the last two years. The following towns show a decrease of over 10 per cent in the number of operations as compared with 1886.

Municipalities	No. of operations	
	1886	1887-88
Bunkhabaram	473	426
Cumbatore	1091	969
Conjeveram	1925	967
Dindigul	778	630
Gudiyabam	375	283
Guntur	370	181
Madras	23090	20037
Mayavaram	797	705
Ongole	470	368
Ootacamund	623	506
Palni	669	585
Srirangam	602	229
Tanjore	1514	1249
Trichinopoly	3701	3118
Tripali	265	113

18. *Annual Vaccination.*—The following table gives the results obtained in each of the ranges in which it was conducted:—

Circle.	Number of months annual vaccination was carried on.	Number of calves vaccinated.	Total vaccinated.	Successful.	Unsuccessful.	Unknown.	Percentage of success.	Total cost.	Average cost of each suc- cessful case.
								RS. A. P.	RS. A. P.
Bellary ...	5½ months ...	162	3,193	3,110	72	11	97.4	353 15 9	0 1 9
Parpanahalli ...	4 do. ...	54	760	749	7	4	98.5	160 14 6	0 2 1
Madanapalle ...	3 do. ...	13	129	115	14	...	81.4	52 0 0	0 7 2
Pithapuram ...	4½ do. ...	21	858	808	44	6	93.0	70 3 1	0 1 4
Cumilton ...	10 do. ...	54	1,984	1,869	72	43	94.2	213 1 7	0 1 9
Kurnool ...	1 year ...	66	1,798	1,708	90	...	95.0	295 7 0	0 2 9
Salem ...	1 do. ...	58	1,940	880	115	45	84.6	164 15 9	0 3 0
Vridhachalam ...	3 months ...	14	160	160	...	...	100.0	125 0 11	0 12 5
Negapatam ...	6 do. ...	33	550	506	5	39	92.0	71 14 0	0 2 3
Vizagapatam ...	1 year ...	60	3,115	2,632	1,011	71	65.2	319 13 5	0 2 6
Total ...		535	13,587	11,938	1,430	219	86.4	1,767 6 0	0 2 4

19. During the year two First-class Deputy Inspectors of Vaccination were reduced to second-class grade for unsatisfactory work and three Second-class Deputies promoted to first class—two in lieu of the two degraded, and one to fill a vacancy caused by death which occurred on the 15th January 1887. One Second-class Deputy Inspector, Y. Poonosawmy Pillay, of the Gooty Range, was dismissed the service on conviction before a court of law for cheating and falsifying his diaries. Two vaccinators were promoted to Second-class Deputy Inspectors. Fines to the extent of Rs. 30 were inflicted on Deputy Inspectors for unsatisfactory work.

I have the honor to be,

Sir,

Your most obedient servant,

DONALD J. DYMOTT, Surgeon,
Inspector of Vaccination and
Dy. Sanitary Commissioner,
Madras.

MADRAS, }
1888. }

16. The following table shows the vaccinations performed in the cantonments in 1887-88 compared with the work done in 1886 :—

Cantonments.	No. of vaccinators.	Total number vaccinated.			Primary vaccination.				Re-vacci- nation.		Percentage of success.		Cost of each successful case.	Average number of opera- tions per man.
					Successful.									
		Males.	Females.	Total.	Total.	Under 1 year.	Over 1 and * under 6 years.	Above 6 years.	Total.	Successful.	Primary vac- cination.	Re-vaccina- tion.		
Bangalore { 1886 { 1887-88	2 2	756 644	631 521	1,387 1,165	1,256 1,119	949 815	220 228	13 14	131 46	94 42	94.1 94.4	71.7 91.3	A. P. 4 5 5 3	693 582
Secundera- { 1886 bad. { 1887-88	2 *4	957 1,553	810 1,219	1,767 2,772†	1,594 2,256	1,005 1,367	363 621	127 248	173 516	140 162	93.7 99.1	80.9 31.3	3 3 3 10	883 693
Total ... { 1886 { 1887-88	4 *6	1,713 2,197	1,441 1,740	3,154 3,937†	2,850 3,375	1,954 2,182	583 849	140 262	304 562	234 204	93.9 97.5	76.9 36.3	3 10 4 3	788 656

* 2 are Municipal Vaccinators.

† Includes work of 2 Municipal Vaccinators.

17. The following table shows the inspection work of Deputy Inspectors of Vaccination for 1887-88 :—

VACCINATION REPORT.

Circles.	Number of inspecting officers.		Number of villages visited.		Total number of persons vaccinated.	Number of days spent on inspection duty.	Number of cases verified.		Proportion per cent. of inspection to total number vaccinated.	
	First-class Deputy Inspectors.	Second-class Deputy Inspectors.	First-class Deputy Inspectors.	Second-class Deputy Inspectors.			First-class Deputy Inspectors.	Second-class Deputy Inspectors.	First-class Deputy Inspectors.	Second-class Deputy Inspectors.
Booty ...	...	1	...	400	5,901	246	...	3,683	...	62.4
Penakonda ...	1	...	549	...	8,917	286	4,820	...	54.0	...
Bellary ...	1	...	296	...	13,880	208	6,119	...	44.1	...
Harpanahalli ...	...	1	...	323	7,593	164	...	3,561	...	46.8
Chingleput ...	1	...	326	...	23,005	118	6,430	...	27.9	...
Saidapet ...	1	...	227	...	6,051	121	4,135	...	68.3	...
North Coimbatore ...	1	...	679	...	26,345	243	14,796	...	56.1	...
South Coimbatore ...	1	...	563	...	29,664	219	11,992	...	40.4	...
Cuddapah ...	1	...	282	...	3,906	16	1,936	...	49.5	...
Madanapalle ...	1	...	232	...	4,605	173	1,947	...	42.2	...
Sidhout ...	...	1	...	174	4,344	213	...	2,305	...	53.0
Chattrapur ...	1	...	516	...	13,879	231	9,095	...	65.5	...
Chicacole ...	1	...	283	...	12,597	168	6,144	...	48.7	...
Ganjam Hill Tracts ...	1	...	229	...	6,110	103	3,477	...	56.9	...
Ellero ...	1	...	340	...	7,788	221	3,585	...	46.0	...
Pittaporo ...	...	1	...	428	7,751	302	...	5,987	...	77.2
Rajahmundry ...	1	...	338	...	9,163	155	5,888	...	58.8	...
Guntur ...	1	...	305	...	4,391	226	3,131	...	71.3	...
Masulipatam ...	1	...	295	...	6,723	193	2,878	...	42.8	...
Vinukonda ...	...	1	...	397	2,661	247	...	2,088	...	78.4
Cumbum ...	1	...	182	...	4,170	129	...	2,106	...	50.5
Kurnool ...	1	...	486	...	10,364	233	7,008	...	67.6	...
Dindigul ...	1	...	172	...	15,947	194	8,229	...	51.6	...
Madura ...	...	1	...	405	10,725	260	...	5,564	...	51.8
Permagudi ...	1	...	257	...	19,814	148	4,336	...	21.9	...
North Malabar ...	...	1	...	84	18,103	65	...	7,578	...	41.8
South Malabar ...	1	...	242	...	28,312	245	10,229	...	36.1	...
Kavali ...	...	1	...	372	3,540	292	...	6,090	...	63.8
Nellore ...	1	...	457	...	8,584	214	5,672	...	66.1	...
Ongole ...	...	1	...	362	9,016	206	...	7,019	...	77.8
Chittoor ...	1	...	610	...	15,041	216	7,068	...	46.9	...
Karvetnagar ...	...	1	...	375	10,531	215	...	5,334	...	50.6
Vellore ...	1	...	255	...	16,485	150	5,150	...	49.1	...
Krishnagiri ...	...	1	...	527	14,333	249	...	6,934	...	48.3
Namukal ...	...	1	...	291	19,778	135	...	7,351	...	37.2
Salem ...	1	...	282	...	16,826	131	5,569	...	33.1	...
Cuddalore ...	1	...	421	...	15,559	215	7,103	...	45.1	...
Vridhdachallam ...	...	1	...	376	9,119	213	...	5,800	...	63.6
No. I, South Canara ...	1	...	255	...	21,391	175	7,054	...	32.9	...
No. II, South Canara ...	...	1	...	179	10,622	174	...	4,629	...	43.6
Negapatam ...	1	...	621	...	15,051	254	10,520	...	69.9	...
Tanjore ...	1	...	548	...	22,474	209	9,226	...	41.0	...
Satur ...	...	1	...	327	13,647	206	...	6,864	...	50.3
Shermadevi ...	...	1	...	365	17,781	241	...	10,282	...	57.7
Tinnerelly ...	1	...	635	...	18,411	262	8,078	...	43.8	...
Trichinopoly ...	1	...	453	...	21,136	198	14,856	...	70.2	...
Jeypore Hill Tracts ...	1	...	239	...	5,744	198	1,662	...	28.9	...
Vizagapatam ...	1	...	594	...	17,050	251	15,600	...	91.4	...
Vizianagaram ...	...	1	...	287	19,904	270	...	10,967	...	55.0
Total ...	32	17	12,069	5,672	634,732	9,801	213,233	104,145	48.0	54.4

Districts.	No. of dispensaries.	Number vaccinated.			Number vaccinated successfully.			Percentage of success.			Average number vaccinated at each dispensary.	Success of primary vaccination.			
		Primary vaccination.	Re-vaccination.	Total.	Primary vaccination.	Re-vaccination.	Total.	Primary vaccination.	Re-vaccination.	Total.		Under 1 year.	Above 1 and under 6 years.	Above 6 years.	
Anantapur ...	{ 1886 ...	8	1,087	4	1,091	991	4	998	91.4	100.0	91.4	136	451	465	78
	{ 1887-88.	8	292	1	293	278	1	279	95.2	100.0	95.2	37	80	154	44
Bellary ...	{ 1886 ...	15	768	...	768	700	...	700	91.1	...	91.1	51	338	324	38
	{ 1887-88.	15	679	...	679	611	...	611	91.9	...	91.9	45	376	244	24
Bhingleput ...	{ 1886 ...	14	1,591	97	1,691	1,295	26	1,232	75.6	26.8	72.8	121	166	879	161
	{ 1887-88.	14	1,130	96	1,226	869	24	893	76.9	25.0	78.5	87	114	624	131
Coimbatore ...	{ 1886 ...	13	883	3	886	815	2	817	92.2	66.6	92.2	68	208	521	86
	{ 1887-88.	13	598	15	613	510	8	518	85.2	53.3	84.5	44	106	350	54
Cuddapah ...	{ 1886 ...	11	794	9	803	522	3	525	65.7	33.3	65.3	73	97	301	124
	{ 1887-88.	11	279	22	301	174	17	191	62.3	77.2	63.4	27	58	83	33
Ganjam ...	{ 1886 ...	10	411	7	418	311	6	317	75.6	85.7	75.8	42	37	218	56
	{ 1887-88.	10	389	7	397	382	2	385	66.3	20.0	65.1	35	29	236	117
Godavari ...	{ 1886 ...	17	576	5	581	304	3	307	67.5	60.0	67.4	25	22	197	85
	{ 1887-88.	18	450	5	455	304	7	293	74.8	58.3	74.8	17	10	171	45
Kistna ...	{ 1886 ...	18	302	12	314	226	3	243	74.7	60.0	74.5	18	11	177	52
	{ 1887-88.	18	321	5	326	249	3	243	74.7	60.0	74.5	18	11	177	52
Kurnool ...	{ 1886 ...	10	469	...	469	316	...	316	67.3	...	67.3	47	65	194	57
	{ 1887-88.	12	447	9	456	322	3	325	72.0	33.3	71.2	38	59	203	60

Districts.	No. of dispensaries.	Number vaccinated.			Number vaccinated successfully.			Percentage of success.			Average number vaccinated at each dispensary.	Success of primary vaccination.			
		Primary vaccination.	Re-vaccination.	Total.	Primary vaccination.	Re-vaccination.	Total.	Primary vaccination.	Re-vaccination.	Total.		Under 1 year.	Above 1 and under 6 years.	Above 6 years.	
Madras Town ...	1886 ...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1887-88.	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura ...	1886 ...	31	1,444	51	1,495	1,254	29	1,283	86.8	56.8	85.8	48	325	779	150
...	1887-88.	31	995	26	1,021	845	14	859	85.9	51.5	81.1	33	224	540	81
Malabar ...	1886 ...	13	413	34	447	361	10	371	72.8	29.4	69.5	34	32	186	83
...	1887-88.	15	377	...	377	303	...	303	80.4	...	80.4	25	21	167	115
Nellore ...	1886 ...	15	1,007	17	1,024	877	14	891	79.9	82.3	79.9	74	99	564	214
...	1887-88.	18	1,440	23	1,463	1,304	20	1,324	90.5	80.8	90.4	81	133	855	316
Nilgiris ...	1886 ...	5	35	...	35	23	...	23	65.7	...	65.7	7	10	13	5
...	1887-88.	5	52	5	57	35	1	36	67.3	20.0	67.1	11	15	18	2
North Arcot ...	1886 ...	14	659	5	664	606	3	609	91.3	60.0	91.7	47	114	386	100
...	1887-88.	15	371	2	373	329	1	330	88.7	50.0	89.4	25	61	220	48
Salem ...	1886 ...	12	601	19	620	511	9	520	85.0	96.0	85.1	51	85	394	35
...	1887-88.	15	935	31	966	781	8	789	83.3	25.8	81.6	63	161	500	120
South Arcot ...	1886 ...	12	451	11	462	409	9	418	82.0	26.6	80.8	53	60	397	99
...	1887-88.	13	639	15	654	565	4	569	86.2	44.4	80.3	42	15	99	140
South Canara ...	1886 ...	8	298	36	334	251	16	267	74.3	55.0	73.5	49	41	189	213
...	1887-88.	13	566	40	606	443	22	465	74.8	51.4	84.4	48	151	1,010	321
Tanjore ...	1886 ...	37	2,470	47	2,517	2,117	27	2,144	85.7	57.4	85.1	68	262	1,467	388
...	1887-88.	37	1,742	35	1,777	1,482	18	1,500	85.1	51.4	84.4	48	151	1,010	321
Tinnevely ...	1886 ...	22	1,170	29	1,199	956	13	974	81.7	62.0	81.2	55	90	604	262
...	1887-88.	22	880	12	892	789	9	799	88.6	75.0	83.4	41	75	431	271
Trichinopoly ...	1886 ...	8	232	1	233	218	1	219	93.4	100.0	98.4	33	43	158	56
...	1887-88.	11	311	8	319	322	...	322	94.4	...	94.4	32	28	220	74
Vizagapatnam ...	1886 ...	15	1,000	65	1,065	917	49	967	91.7	61.5	89.8	71	101	537	219
...	1887-88.	15	742	81	823	684	56	741	82.7	63.1	80.4	53	120	451	117
Total ...	1886 ...	312	19,739	453	20,192	13,954	227	14,181	83.1	59.1	82.2	55	2,082	8,768	2,504
...	1887-88.	331	13,736	438	14,174	11,596	214	11,720	83.7	48.9	82.6	42	1,961	7,195	2,350

13. The following table shows particulars of the work done by Government Vaccinators during the years 1886 and 1887-88:—

Hill Tracts.	No. of vaccinators.	Number vaccinated.			Primary vaccination.				Re-vacci- nation.		Percentage of success.		Cost of each successful case.	Average number of oper- ations per man.
		Males.	Females.	Total.	Total.	Successful.			Total.	Successful.	Primary vac- cination.	Re-vaccina- tion.		
						Under 1 year.	Over 1 and under 6 years.	Above 6 years.						
Ganjam { 1886 ... { 1887-88.	6 6	2,566 3,159	2,320 2,907	4,886 6,066	4,886 6,992	210 466	1,208 2,242	3,319 3,114	... 74	... 73	96.9 97.1	... 94.6	RS. A. P. 0 7 0 0 5 6	814 1,011
Jeypore { 1886 ... { 1887-88.	6 6	1,361 1,397	804 1,001	2,165 2,398	2,165 2,398	61 128	893 1,134	1,163 1,091	... ...	... ...	97.7 98.1	... ...	0 14 4 0 12 5	361 399
Gudem { 1886 ... { 1887-88.	2 2	446 341	446 379	892 720	892 720	26 17	399 308	427 387	... ...	... ...	95.5 98.8	... ...	0 13 9 1 0 10	446 360
Bhadra- chalum. { 1886 ... { 1887-88.	2 2	333 333	238 299	571 632	568 631	33 75	265 394	200 123	3 1	... 1	87.6 93.8	... 100.0	0 15 0 1 1 1	285 316
Total ... { 1886 ... { 1887-88.	16 16	4,706 5,230	3,808 4,586	8,514 9,816	8,511 9,741	330 686	2,765 4,078	5,109 4,715	3 75	... 74	96.3 97.3	... 98.6	0 10 1 0 8 10	532 613

14. The following table shows the work of Native States Vaccinators:—

Native States (Zemindaries).	Number vaccinated.			Primary vaccination.				Re-vacci- nation.		Percentage of success.		Cost of each successful case.	Average number of operations per man.
	Males.	Females.	Total.	Total.	Successful.			Total.	Successful.	Primary vac- cination.	Re-vaccina- tion.		
					Under 1 year.	Over 1 and under 6 years.	Above 6 years.						
Arni ... { 1886 ... { 1887-88.	553 478	425 344	983 822	983 822	73 91	603 569	144 132	... ...	... ...	83.4 96.3	... ...	A. P. 2 4 2 1	983 822
Jeypore ... { 1886 ... { 1887-88.	2,062 1,866	1,384 1,354	3,446 3,220	3,446 3,220	141 87	1,815 1,351	1,440 1,655	... ...	... ...	98.5 96.0	... ...	4 5 8 4	431 357
Total... { 1886 .. { 1887-88.	2,620 2,344	1,809 1,698	4,429 4,042	4,429 4,042	214 178	2,418 1,920	1,584 1,787	... ...	... ...	95.1 96.1	... ...	4 0 4 3	432 404

15. The following table shows the work done in dispensaries:—

VACCINATION REPORT.

Municipalities.	Population.	Total number vaccinated.			Primary vaccination.				Re-vaccination.		Proportion per cent. to total primarily vaccinated.				Number of all successful vaccinations and re-vaccinations.		Percentage of success.		Number of infants under 1 year who died.	Number of infants under 1 year who remained unprotected.	Average cost of each successful case.
		Males.	Females.	Total.	Successful.			Total.	Successful.	Under 1 year.	Over 1 and under 5 years.	Above 6 years.	Number of all successful vaccinations and re-vaccinations.		Primary vaccination.	Re-vaccination.					
					Under 1 year.	Over 1 and under 5 years.	Above 6 years.						Primary vaccination.	Re-vaccination.							
Tinnevely	23,221	315	174	522	81	274	150	...	...	161	52.4	28.7	508	97.3	...	743	148	511	0 5 9		
Trichinopoly	84,449	486	281	770	235	405	119	180	165	30.5	52.5	15.4	759	98.5	...	496	92	169	0 4 4		
Triplicore	14,278	1,872	1,246	3,118	896	1,807	622	114	88	26.7	51.4	17.7	3,490	94.6	87.3	1,934	460	569	0 4 3		
Triplicore	14,278	175	165	341	804	1,633	442	114	88	26.7	51.4	17.7	2,967	95.8	77.2	1,754	440	510	0 3 10		
Triplicore	13,232	175	135	315	66	201	44	10	10	19.3	50.8	12.9	314	92.0	...	44	13	...	0 4 8		
Triplicore	13,232	150	115	265	68	180	61	10	10	18.3	50.8	20.0	307	92.3	100.0	249	58	135	0 6 5		
Triplicore	13,232	113	52	165	48	175	17	...	...	25.6	66.0	6.4	280	98.1	...	130	9	...	0 4 2		
Triplicore	16,281	365	161	596	85	230	124	3	8	43.0	41.8	7.2	105	92.7	100.0	228	1	179	1 0 10		
Triplicore	15,993	417	225	643	126	256	102	44	40	10.4	41.5	23.9	417	94.9	88.8	606	127	364	0 7 1		
Vaniambady	15,993	143	107	250	250	155	19	...	...	21.0	42.7	17.0	524	99.8	90.9	656	147	383	0 5 11		
Vellore	37,491	629	368	1,207	282	115	153	9	...	25.6	62.0	7.6	238	95.2	...	57	10	...	0 4 8		
Vizagapatnam	30,291	746	617	1,363	586	609	105	...	...	40.7	54.2	8.1	277	98.5	...	140	28	...	0 7 3		
Vizagapatnam	30,291	989	509	1,498	287	470	337	82	17	39.6	48.1	8.7	1,163	96.2	40.0	1,203	143	883	0 5 0		
Vizagapatnam	22,577	434	288	722	146	280	169	117	54	43.0	44.7	9.1	1,336	96.9	53.1	1,115	162	367	0 4 0		
Vizagapatnam	22,577	374	311	685	154	247	155	87	78	25.3	41.3	31.3	1,168	97.9	69.9	884	136	461	0 4 0		
Vizagapatnam	10,357	132	80	212	76	275	35	6	1	27.8	41.4	26.8	1,273	96.1	69.9	723	129	347	0 3 7		
Vizagapatnam	10,357	160	98	258	89	118	32	...	...	36.9	45.7	12.4	686	98.3	77.7	800	127	527	0 2 2		
Vizagapatnam	18,577	132	80	212	76	275	35	6	1	25.7	43.9	25.9	682	97.3	196	775	99	832	0 5 8		
Vizagapatnam	18,577	160	98	258	89	118	32	...	...	36.9	45.7	12.4	191	92.2	56.6	388	82	250	0 10 2		
Vizagapatnam	18,577	132	80	212	76	275	35	6	1	25.7	43.9	25.9	682	97.3	196	775	99	832	0 5 8		
Vizagapatnam	18,577	160	98	258	89	118	32	...	...	36.9	45.7	12.4	239	92.6	...	393	68	236	0 8 3		
Total	1,843,705	43,442	30,370	74,012	24,413	29,584	11,617	2,947	2,757	34.8	42.2	16.5	68,371	93.6	69.8	40,493	12,782	25,226	0 5 11		
Total	1,843,705	43,890	32,175	75,565	17,358	29,220	20,827	3,825	2,914	24.2	40.7	29.0	70,319	93.9	76.1	42,578	13,332	31,888	0 5 11		

(c.) is placed opposite those towns in which vaccination is compulsory.

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is placed opposite those towns in which vaccination is compulsory.

Municipalities.	Population.	Total number vaccinated.			Primary vaccination.				Re-vacci- nation.		Proportion per cent. to total primarily vaccinated.			Number of all successful vaccinations and re-vacci- nations.		Percentage of success.		Deaths registered.	Number of infants under 1 year who died.	Number of infants under 1 year who remained unprotected.	Average cost of each suc- cessful case.
		Total.			Successful.				Total.	Successful.	Under 1 year.	Over 1 and under 6 years.	Above 6 years.	Number of all successful vaccinations and re-vacci- nations.	Percentage of success.						
		Males.	Females.	Total.	Under 1 year.	Over 1 and under 6 years.	Above 6 years.														
Adón...	1885 ...	22,441	405	384	789	785	465	296	13	4	3	50.2	37.7	1.6	777	98.6	773	93	215	0.4	
Amatapur ...	1887-88 ...	4,907	494	481	975	973	305	556	10	2	2	40.5	57.1	10.2	903	98.7	748	80	273	0.3	
Anakapalle ...	1886 ...	13,341	129	114	233	236	130	74	4	17	14	59.3	33.7	1.8	222	98.7	240	31	79	0.1	
Bellary ...	1887-88 ...	53,433	290	260	550	541	309	189	66	61	1	61.4	12.1	18.9	269	92.5	260	34	41	0.1	
Bellary ...	1886 ...	53,433	1,126	613	1,739	1,725	834	755	32	157	106	23.6	55.1	13.2	328	92.1	436	38	341	0.6	
Bellary ...	1887-88 ...	23,599	1,051	661	1,712	1,684	790	406	365	38	33	46.9	24.1	21.6	1,591	92.6	1,775	290	651	0.3	
Bellary ...	1886 ...	23,599	214	114	328	322	23	186	91	17	12	6.5	32.8	25.8	1,591	92.6	1,775	290	651	0.3	
Bellary ...	1887-88 ...	8,582	245	227	472	468	112	226	42	75	75	10.3	32.3	44.0	312	89.9	718	136	545	0.5	
Bellary ...	1886 ...	57,055	1,863	949	2,812	2,802	60	551	1,448	47	47	28.4	49.0	16.6	404	94.2	244	31	105	0.1	
Bellary ...	1887-88 ...	24,356	2,271	639	2,910	2,900	277	908	1,274	...	...	9.4	30.9	43.4	1,421	93.4	1,214	233	700	0.3	
Bellary ...	1886 ...	18,362	915	622	1,537	1,524	375	789	326	...	...	24.1	50.7	20.3	1,420	93.8	867	109	388	0.3	
Bellary ...	1887-88 ...	19,837	437	314	751	755	257	343	118	14	2	21.5	55.4	13.8	672	90.9	447	75	122	0.4	
Bellary ...	1886 ...	15,698	346	320	666	666	230	384	157	...	...	28.9	46.4	19.0	780	94.4	450	90	121	0.3	
Bellary ...	1887-88 ...	30,441	498	468	966	966	335	540	23	129	1	31.9	53.0	2.2	889	87.3	897	160	472	0.3	
Bellary ...	1886 ...	38,937	581	510	1,091	1,091	250	711	95	...	...	22.9	65.1	8.7	1,056	90.7	1,673	401	1,022	0.4	
Bellary ...	1887-88 ...	37,275	1,104	821	1,925	1,922	520	728	226	203	51	30.1	42.2	13.1	1,525	85.5	1,620	393	767	0.4	
Bellary ...	1886 ...	4,778	43	20	63	63	9	13	7	...	...	14.3	20.6	11.1	29	46.0	52	12	31	0.6	
Bellary ...	1887-88 ...	48,545	85	72	157	141	23	63	20	16	7	16.3	44.6	13.4	108	71.6	43.7	17	29	1.1	
Bellary ...	1886 ...	18,982	669	547	1,216	1,216	155	675	232	...	...	15.2	55.5	19.0	1,092	89.8	990	111	694	0.4	
Bellary ...	1887-88 ...	14,182	335	235	570	565	88	301	111	...	...	14.9	60.4	71.8	251	87.1	458	68	347	1.4	
Bellary ...	1886 ...	25,092	526	232	758	744	81	387	143	134	100	12.5	60.0	22.2	711	94.8	669	100	488	0.4	
Bellary ...	1887-88 ...	...	395	235	630	601	103	339	11	129	101	20.5	67.6	2.1	554	90.4	691	114	474	0.4	
Bellary ...	1886 ...	...	244	111	355	355	15	175	145	...	...	4.2	49.3	40.8	335	94.3	713	91	612	0.6	
Bellary ...	1887-88 ...	...	452	435	887	879	79	619	146	6	4	8.8	70.4	16.6	843	90.0	697	180	498	0.6	

8. The following table shows the cost of vaccination:—

Establishments.	Total expenditure.		Average cost of each successful case.	
	1886.	1887-88.	1886.	1887-88.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Government establishment ...	5,176 7 3	5,246 12 4	0 10 1	0 8 9
Local Fund do. ...	1,37,511 13 7	1,42,381 9 4	0 3 11	0 3 9
Municipal do. ...	25,344 9 4	26,185 11 0	0 5 11	0 5 11
Native States do. ...	1,053 0 0	1,035 0 0	0 4 0	0 4 3
Cantonments	690 12 0	*937 5 0	0 3 10	0 4 3
Total ...	1,69,776 10 2	1,75,786 5 8	0 4 3	0 4 1

* Includes the pay of two municipal vaccinators.

The increase of total cost, Rs. 6,009-11-6, is due to the increased number of cases vaccinated.

The diminution in the average cost of each successful case, especially as regards Government establishments, is due to the vaccinators having done better work than in 1886.

9. In the following table is compared the total work, amount of success, and average cost of each case in Local Fund districts:—

Districts.	Total number of vaccinations.		Number of successful vaccinations.				Ratio per cent. of successful cases.		Average cost of each successful case.		Average number of operations performed by each vaccinator.	
	1886.	1887-88.	1886.		1887-88.		1886.	1887-88.	1886.	1887-88.	1886.	1887-88.
			Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.						
									AS. P.	AS. P.		
Anantapur	13,806	15,095	13,065	198	13,914	354	96.0	94.4	4 6	4 2	863	944
Bellary	22,523	21,702	22,116	12	21,256	...	98.2	98.0	4 11	4 10	901	868
Chingleput	39,135	32,482	27,543	59	26,799	182	91.5	83.0	3 5	3 9	1,507	1,624
Coimbatore	44,971	53,375	43,681	34	52,045	79	97.2	97.6	2 5	2 8	1,799	1,368
Cuddapah	13,345	13,810	12,195	27	12,725	44	91.5	92.4	11 3	10 4	404	406
Ganjam	26,597	26,639	26,349	7	26,337	15	99.0	98.9	4 2	3 10	828	859
Godavari	16,116	25,654	14,870	41	24,506	21	92.5	95.6	8 8	5 8	413	570
Kistna	13,740	13,308	11,384	199	11,333	102	84.3	85.9	11 2	11 4	362	341
Kurnool	9,765	14,500	8,913	117	12,693	677	83.2	91.5	10 0	6 7	488	690
Madura	45,218	46,850	43,554	352	44,960	512	97.0	97.0	3 3	3 1	1,052	1,115
Malabar	44,611	44,712	42,418	12	41,857	60	95.1	93.7	2 4	2 7	1,394	1,397
Nellore	23,492	27,485	21,916	99	25,893	123	93.7	94.6	5 11	4 10	810	949
Nilgiris	1,760	3,010	1,515	8	1,614	33	86.5	83.4	10 9	10 5	587	670
North Arcot	29,519	35,784	28,269	21	35,990	26	95.8	97.8	4 10	4 3	843	1,022
Salem	45,268	48,538	43,938	259	46,956	101	97.6	96.9	2 9	2 8	984	1,011
South Arcot	26,319	25,314	24,165	...	24,016	19	91.8	94.9	3 7	3 11	1,053	937
South Canara	29,202	36,935	27,388	268	33,622	754	94.7	93.0	2 7	2 2	1,390	1,478
Tanjore	44,429	33,794	41,375	305	31,119	324	93.8	92.7	2 11	3 10	1,201	913
Tinnevely	45,940	50,549	44,574	64	49,238	28	97.1	97.8	3 1	2 10	1,094	1,198
Trichinopoly	21,658	20,835	21,069	18	20,249	43	97.3	97.4	2 8	2 10	1,140	1,006
Vizagapatam	49,336	36,594	38,326	823	34,781	732	97.0	97.0	3 1	3 5	1,222	1,109
Total ...	588,750	625,795	557,732	2,923	590,853	4,259	95.2	95.0	3 11	3 9	962	974

There has been a decrease in work in Bellary, Kistna, South Arcot, Tanjore, Trichinopoly, and Vizagapatam. The reason assigned for the decrease by the Deputy Inspectors of these districts is chiefly absence of vaccinators on leave and cholera duty. Cholera and fever were unusually severe in Bellary. There were heavy rains in South Arcot and Vizagapatam; and prevalence of cholera in Trichinopoly and Tanjore interfered with the progress of vaccination.

Establishment.	Number of successful vaccinations.				Ratio per cent. of successful cases.				Ratio per cent. of total successful cases.	
	1886.		1887-88.		1886.		1887-88.			
	Primary vaccinations.	Re-vaccinations.	Primary vaccinations.	Re-vaccinations.	Primary vaccinations.	Re-vaccinations.	Primary vaccinations.	Re-vaccinations.	1886.	1887-88.
Local Fund Vaccinators.	557,732	2,923	5,90,853	4,259	95.3	72.3	95.5	59.0	95.2	95.0
Government do. ...	8,204	...	9,479	74	96.3	...	97.3	98.6	96.3	97.3
Private do. ...	...	...	...	...	...	...	...	...	...	...
Native States do. ...	4,216	...	3,885	...	95.1	...	96.1	...	95.1	96.1
Municipal do. ...	65,614	2,757	67,465	2,914	93.6	69.8	93.9	76.1	92.3	93.0
Cantonment do. ...	2,677	234	3,293	204	93.9	76.9	97.5	36.3	92.2	88.8
Dispensaries ...	13,954	227	11,506	214	83.1	50.1	83.7	48.8	82.2	82.6
Medical Subordinates ...	3,677	1,261	1,630	876	54.7	45.6	53.7	40.7	52.0	48.3
Total ...	656,074	7,402	688,061	8,541	94.5	64.3	95.0	59.9	94.0	94.3

6. The following table shows the number of operations according to age :—

Establishment.	Ages of successfully vaccinated in 1886.			Total number of persons vaccinated in 1886.	Ages of successfully vaccinated in 1887-88.			Total number of persons vaccinated in 1887-88.
	Under 1 year.	Over 1 and under 6 years.	Above 6 years.		Under 1 year.	Over 1 and under 6 years.	Above 6 years.	
Government ...	330	2,765	5,109	8,514	686	4,078	4,715	9,816
Local Funds ...	99,634	325,430	132,688	558,750	126,402	349,271	115,090	635,795
Native States ...	214	2,418	1,584	4,429	178	1,920	1,787	4,042
Municipalities ...	24,413	29,584	11,617	74,012	17,358	29,220	20,827	75,535
Cantonments ...	1,954	583	140	3,154	2,182	849	262	3,937
Civil Dispensaries ...	2,682	8,768	2,504	17,243	1,961	7,195	2,350	14,174
Medical Subordinates...	285	747	2,615	9,485	38	119	1,473	5,181
Total ...	129,512	370,296	156,267	705,587	143,895	392,052	146,504	738,480

7. The following table shows average number of operations per man by different establishments :—

Establishment.	Number of vaccinators.		Average number of operations per man.		Increase or decrease per man.	
	1886.	1887-88.	1886.	1887-88.	Increase.	Decrease.
Local Fund Vaccinators ...	612	642	962	974	12	...
Government do. ...	16	16	532	613	81	...
Native States do. ...	9	10	492	404	...	88
Municipal do. ...	79	82	645	676	31	...
Madras Town do. ...	31	24	745	835	70	...
Cantonment do. ...	4	6	788	656	...	132
Total ...	751	780	904	922	18	...

Districts.	1886.					1887-88.				
	Deputy Inspectors, First Class.	Deputy Inspectors, Second Class.	Vaccinators.			Deputy Inspectors, First Class.	Deputy Inspectors, Second Class.	Vaccinators.		
			First Class.	Second Class.	Probationers.			First Class.	Second Class.	Probationers.
Anantapur	1	1	5	8	3	1	1	5	8	3
Bellary	1	1	8	10	7	1	1	8	10	7
Chingleput	2	...	6	12	2	2	...	6	12	2
Coimbatore	2	...	10	10	5	2	...	10	24	5
Cuddapah	2	1	11	18	4	2	1	11	19	4
Ganjam	2	...	9	19	3	2	...	9	19	3
Godavari	2	1	10	25	4	2	1	11	26	8
Kistna	2	1	13	17	8	2	1	13	17	9
Kurnool	2	...	8	8	4	2	...	8	9	4
Madura	2	1	14	22	7	2	1	14	21	7
Malabar	1	1	9	15	8	1	1	9	15	8
Nellore	1	2	10	15	4	1	2	10	15	4
Nilgiris	...	...	3	...	...	...	...	3	...	...
North Arcot	2	1	14	15	6	2	1	14	15	6
Salem	1	2	9	28	9	1	2	9	30	9
South Arcot	1	1	8	17	...	1	1	8	19	...
South Canara	1	1	5	8	8	1	1	5	11	9
Tanjore	2	...	9	24	4	2	...	9	24	4
Tinnevely	1	2	11	24	7	1	2	11	25	6
Trichinopoly	1	...	5	11	3	1	...	5	13	3
Vizagapatam	1	1	14	13	6	1	1	14	13	6
Total of Districts ...	30	17	191	319	102	30	17	192	342	107
<i>Government.</i>										
Ganjam Hill Tracts	1	...	...	6	...	1	...	...	6	...
Jeypore do.	1	...	...	6	...	1	...	...	6	...
Gudem Hills	...	...	2	...	...	...	...	2	...	...
Bhadrachalam Hill Tracts	...	...	2	...	...	...	...	2	...	...
Total ...	2	...	4	12	...	2	...	4	12	...
<i>Native States (Zemindary).</i>										
Vellore (Arni)	...	...	...	1	...	...	...	...	1	...
Jeypore	...	...	...	8	...	...	...	...	9	...
Total ...	...	...	...	9	...	...	...	...	10	...
Madras Town	1	...	8	15	8	1	*4	8	8	8
Municipalities	...	...	39	37	3	...	...	43	50	12
Total ...	1	...	47	52	11	1	4	51	58	20
Cantonments	...	...	2	2	...	...	...	2	2	2
Grand Total ...	33	17	214	394	113	33	21	249	424	129

* Assistant Deputy Inspectors.

4. The following table contrasts the work performed during 1886 with that of 1887-88 :—

	1886.	1887-88.
Primary vaccinations	694,076	724,225
Re-vaccinations	11,511	14,255
Total ...	705,587	738,480

Increase is mainly due to increased strength of establishment.

5. The following table shows the rates of success in primary and re-vaccinations :—

REPORT ON VACCINATION FOR THE YEAR 1887.

OFFICE OF SANITARY COMMISSIONER,
MADRAS, 18th August 1888.

No. 778.

From

SURGEON D. F. DYMOTT, M.B.,
*Inspector of Vaccination and
Deputy Sanitary Commissioner for Madras,*

To

THE SANITARY COMMISSIONER FOR MADRAS.

SIR,

I HAVE the honor to submit statistical returns and brief notes on vaccination in the Madras Presidency for the official year 1887-88. Statements I, II, and III for the first three months of 1887 are also given in the appendix, as the last annual report was for the calendar year 1886.

2. I took charge of the office from Surgeon-Major O'Hara on the 18th June 1887. From the 1st April to 18th June my predecessor visited for vaccine and sanitary inspections the districts of Salem, Coimbatore, and Nilgiris and the towns of Tirupatūr, Coonoor, Ootacamund, and Coimbatore.

During the rest of the year I inspected the districts of Ganjam, Vizagapatam, Godāvāri, Kistna, South Canara, Malabar, Kurnool, and Cuddapah and the towns of Ganjam, Berhampore, Parlākimedi, Chicacole, Vizianagaram, Bimlipatam, Vizagapatam, Anakapalle, Cocanada, Rajahmundry, Ellore, Bezvāda, Masulipatam, Pālghat, Cochin, Mangalore, Cannanore, Tellicherry, Calicut, Kurnool, Nandyāl, and Cuddapah.

3. The following statement shows the strength of establishment employed during the years 1886 and 1887-88 :—