(1) பக்கங்களின் எண்ணிக்கை 230

(2) புதுக்கித் திருப்பிய நாள் 6/88

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணி துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 1583 / 1584

அச்சகம்
பலவகை

நாள் : 31-5-1888 198 .

கண்டபடி கையாளவோ கூடாது

18.000—15-6-87.

1583-84
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Read—the following papers:—

From Colonel R. C. B. PEMBERTON, R.E., Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 6th February 1888, No. 305 G.

I am directed to acknowledge the receipt of your No. 2611 W., dated 4th October, in which you reply to the several points raised in this Office No. 1721 G., dated 2nd September last, regarding the various branches of the Madras Public Works establishment.

2. In reply, I am directed to state that the Government of India is fully aware that the administration of the Madras Presidency is mainly conducted on an economical system; and, speaking generally, if the Madras Government declare that they are unable to effect any suggested reduction, it would not be considered desirable to press the suggestion further. But in the present case it is thought that the suggestion made with regard to the reduction in the number of upper subordinates has not been fully apprehended. In your 5th paragraph it is urged that on account of the large area of executive charges and the scattered nature of the works a larger number of subordinates is required than in other Provinces. But this does not meet the suggestion of the Government of India that the number of upper subordinat was too large and that of lower subordinates too small. The numbers of these two classes of subordinates employed in Madras and in other Provinces are approximately as follows:—

	Madras.	Bengal.	North-Western Provinces.
Upper	185	114	94
Lower	30	155	249

From this statement it is evident that in Bengal and the North-Western Provinces lower subordinates do, to a considerable extent, take the place of upper subordinates, and it is considered that an attempt should be made to substitute the same agency in Madras. If it were known that lower subordinates would be more largely employed in Madras, it is believed that there would be no lack of suitable candidates.

3. I am to suggest, therefore, that, as an experiment, only one out of every three vacancies that occur may be filled up in the upper subordinate establishment, and that the others may be filled by lower subordinates, this procedure being followed for a considerable time, until the present scale of upper subordinates is reduced to a scale allowing of not more than four on an average to each division.

4. I am also to request that when replying to this reference you will forward a statement showing the Expenditure and Revenue in each of the 27 divisions

enumerated in Appendix D, which accompanied your No. 1147 W., dated 26th April 1887.

The Expenditure and Revenue should work up to the same totals as in the first three columns of Appendix C, which accompanied your letter above quoted, and Direct and Indirect Revenue should be distinguished. Under the Ganjam Division, the Rushikulya Project should be shown distinct, and under the Kistna Eastern Division, the Gudivada Division and Periyar Works, which, in your letter under reply, you state form for the present separate charges, must be kept distinct.

5. I am also to request that a map may be submitted indicating the several charges in distinct colors and their approximate areas. Wherever two or more officers are employed in one division, the nature of the distribution of their work should be stated, and if the work is divided territorially, the different areas allotted to each should be shown on the map.

6. The further reports promised regarding the possibility of reducing the clerical establishment are awaited.

From G. H. D. WALKER, Esq., Under-Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Calcutta, 28th March 1888, No. 757 G.

I am directed to acknowledge receipt of your No. 416 W., dated 6th February, on the subject of the Madras Public Works establishment, and to say that a reply to this office No. 305 G., of the same date, will be awaited. I am also to request that, in addition to the information to be supplied as requested in paras. 4 and 5 of that letter, you will furnish a distribution statement showing the number of subdivisions in each division or executive charge, and how the proposed number of Executive Engineers, Assistant Engineers acting as such, and upper subordinates are distributed over the subdivisional charges; also approximately, and so far as can be done by reference to information in your possession, the area and expenditure of each subdivision. If Assistant Engineers or upper subordinates are not in charge of subdivisions, it should be explained what their charges or general duties are.

Order—dated 31st May 1888, No. 1583 W., Public Works.

Ordered that the following reply be sent to the Government of India:—

(Here enter No. 1584 W., dated 31st May 1888.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Letter—to the Secretary to the Government of India, Public Works Department, dated Ootacamund, 31st May 1888, No. 1584 W.

I am directed to acknowledge the receipt of your letters of the 6th February and 28th March 1888, Nos. 305 G. and 757 G., respectively, and, with reference to paras. 1 to 3 of the former letter, in which it is suggested that the number of upper subordinates in Madras should be reduced by the employment of a certain number of lower subordinates in their place, I am to invite attention to para 3 of my letter No. 416 W., dated 6th February 1888, in which it was explained that the large area covered by most of the executive divisions of this Presidency and the scattered nature of the works rendered it inadvisable to reduce the number of upper subordinates employed, and that the executive charges which these officers are entrusted with, are such that they cannot be efficiently worked by the class of men who enter the lower subordinate grades.

1583-84 / 2

2. The Government of India will, it is hoped, be enabled to form a correct idea of the importance of these executive charges by reference to the statements of area and expenditure herewith forwarded, in compliance with the requests contained in your letters under reply.

3. It may further be remarked that the College of Engineering does not recognise lower subordinates or sub-overseers, nor does it give instruction to any men as such. Sub-overseers usually commence life as workmen or maistries, and have very little general education or knowledge of engineering outside their own trade; and the low scale of salary authorised for this class of subordinates as shown below can scarcely be expected to offer much inducement to a better class of men. The pay of a sub-overseer is—

First Grade	Rs. 50 to 70
Second Grade	„ 35 to 45
Third Grade	„ 25 to 35

4. If the efficiency of the subordinate classes of the department is to be maintained, it is essential that the recruitment in the lower grades must be from a class who, by general education and technical knowledge, will eventually be fit to rise to the higher ranks. It may be said that the men who pass out of the college will be glad to accept appointments as sub-overseers, and this will, no doubt, be the case for a time; but the immediate saving will be small, and the eventual result will be that in a few years the class of men in the upper subordinate grades will be distinctly inferior to what is required.

5. His Excellency the Governor in Council is thus decidedly of opinion that, while lower subordinates may with advantage be more largely employed than at present, they are wholly unfitted for the large and responsible charges now held by the upper subordinates of the Madras Public Works Department. It may, however, be possible to meet the wishes of the Government of India by the employment of lower subordinates to a larger extent when the necessity for increasing the temporary establishment arises, and the Chief Engineer will be directed to keep the matter in view, and to refrain from proposing any augmentation of the temporary upper subordinate establishment in cases where lower subordinates can with advantage be substituted.

6. The following statements, &c., accompany this letter:—

(1) Statement of divisional grants and estimated revenue working up to Appendix C of the budget estimate for 1887-88.
(2) Map showing divisional charges and their approximate area.
(3) Statement showing the number of subdivisions in each division and the distribution of the staff.
(4) Statement showing the area and expenditure of each subdivision.

7. The information contained in statement (1) has been furnished by the Examiner, Public Works Accounts, but that officer being unable to supply particulars of expenditure by subdivisions, Superintending Engineers had to be referred to; and statement (4) has been compiled from the information furnished by those officers. The Examiner, to whom the statement was referred for verification, is unable to do more than indicate, without reconciling, the differences between the approximate figures furnished by Superintending Engineers and those of the booked accounts of his office. As, however, the Government of India seem to desire only approximate figures for sub-divisions, the information is sent on without further reference to executive officers which would involve further considerable delay.

8. The "detached officers" shown in statement (3) are, for the most part, employed where new works are in progress, and the officer in charge of the sub-division is unable to cope with the work imposed on him in consequence of the number of the works in progress, or the distances between them.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. F. R. Bantleman.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of [1888] Madras.

PUBLIC WORKS.

Dated May, 31st.

Read. *Encl.*

G.O., 31st May 1888, Nos. 1583, 1584 W.

MAY.

Madras Public Works Establishment

The Government of India addressed with regard to their suggestion relative to the reduction of upper subordinates and the increase of lower subordinates in the —.

1583-84
3

Accompaniments to letter to the Secretary to the Government of India, No. 1584 W., dated 31st May 1888.

Statement No. I.

STATEMENT of Divisional Grants and estimated Revenue working up to Appendix C of Budget Estimate of the Madras Presidency for the year 1887-88.

Circles.	No.	Divisions.	Works Grant.									Revenue.							Remarks.
												Direct.					Indirect.		
			Imperial, Military.	Civil Imperial, Works.	35. Construction of Protective Irrigation Works.	42. Major Works (working expenses).	48. Capital expenditure on Public Works not charged against Revenue.	Civil Provincial Works.	43. Minor Works and Navigation, Provincial.	Incorporated Local.	Court of Wards.	Imperial, Military.	Major Works, direct receipts.	Civil Works, Provincial.	Minor Works, Navigation, Provincial.	Civil Works, Local.	Major Works, working expenses.	43. Minor works, Navigation Provincial.	
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
I	1	Ganjam	..	..	* 2,30,000	..	..	3,500	18,000	..	1,19,000	..	..	1,403	..	22	..	..	* Rushikulya Project.
	2	Vizagapatam	2,000	800	..	..	..	72,000	8,000	..	..	..	..	56	..	..	..	..	
	3	Godávari, Eastern	1,250	800	..	92,000	30,000	19,442	39,500	13,000	..	..	59,914	2,793	1,567	..	16,70,000	1,30,000	
	4	Do. Western	..	..	..	90,000	36,048	3,434	21,700	..	1,500	..	33,387	762	1,134	..			
	5	Do. Central	..	..	..	50,000	1,15,920	..	27,800	..	..	..	4,947	76	995	..			
	6	Kistna, Eastern	50	400	..	95,500	3,21,683	3,500	15,500	1,000	..	..	20,117	2,556	265	..	10,22,000	78,000	
II	7	Do. Western	..	200	..	67,500	1,44,300	400	4,500	600	..	..	9,492	433	47	..			
	8	Nellore	360	300	..	40,000	1,98,350	3,000	1,06,500	..	..	..	520	2,710	816	611	1,70,000	2,70,000	
	9	Buckingham Canal	..	..	75,000	..	..	..	2,31,134	..	..	..	..	36	62,086	..	..	..	
III	10	Bellary	41,429	2,529	..	..	..	21,500	23,147	..	..	185	..	4,353	66	..	..	..	
	11	Cuddapah	660	200	..	..	..	68,182	28,000	..	..	..	..	281	..	..	..	..	
	12	Kurnool	650	200	..	1,28,000	..	31,000	46,024	..	..	..	28,147	431	..	682	80,000	..	
	13	Nilgiris	51,329	700	..	..	..	1,53,902	..	..	..	2,437	..	6,809	..	..	..	..	
IV	14	Coimbatore	6,070	300	..	..	24,400	13,110	89,500	..	500	1,125	..	5,769	1,437	587	..	..	
	15	West Coast	43,786	300	..	..	..	1,44,493	1,500	..	..	1,704	..	3,850	..	..	..	..	
	16	North Arcot	6,583	400	..	..	..	8,245	1,46,900	..	..	247	..	2,387	1,315	3,452	..	..	
	17	South Arcot	174	200	..	..	..	800	1,41,335	6,644	..	..	..	15,225	1,786	93	..	..	
V	18	Chingleput	37,671	..	..	..	..	16,150	1,95,392	..	..	936	..	477	4,920	..	..	..	
	19	Presidency and Bangalore ..	2,16,900	500	..	..	..	95,790	4,000	..	..	16,310	..	2,877	..	..	..	..	
	20	Presidency Workshops ..	..	..	..	..	..	..	..	1,000	..	..	..	10,415	..	..	..	..	
	21	Trichinopoly	12,480	200	..	..	..	11,500	75,000	8,466	..	2,056	..	838	2,705	181	..	..	
	22	Tanjore	490	300	..	59,100	7,890	37,000	75,500	3,785	..	..	4,447	925	667	235	5,50,000	23,50,000	
VI	23	Negapatam	165	450	..	38,000	..	8,000	42,500	1,20,000	..	..	233	565	1,004	1	..	..	
	24	Madura	240	400	..	..	..	42,600	1,05,000	..	1,40,000	..	..	928	284	— 24	..	..	
	25	Ramnad	..	..	..	..	..	..	..	..	..	..	..	53	..	..	..	..	
	26	Tinnevelly	250	1,075	..	15,780	9,700	6,147	1,11,117	..	..	..	796	1,717	1,178	160	1,20,000	80,000	
	27	Consulting Architect ..	..	1,500	..	..	..	69,505	..	..	..	..	..	6,309	..	..	..	..	
	28	Presidency Stores	..	..	..	..	..	..	..	..	..	..	..	17,956	..	..	..	..	
	29	Reserve with the Government.	10,830	1,375	..	..	..	1,75,800	26,804	..	..	..	..	..	..	..	..	..	
	30	Reserve at disposal of Commanding Officers	9,373	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	31	Reserve at disposal of Director-General of Post-offices ..	..	7,871	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	32	Reserve at disposal of Director-General of Telegraphs ..	..	6,000	..	..	..	..	2,69,203	..	..	..	..	..	..	..	..	..	
	33	Minor Irrigation Works ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	34	Adjustment on account of old maintenance charges ..	..	..	..	—1,28,618	..	..	1,28,618	..	..	..	..	..	..	..	..	..	
		Total ..	4,42,600	27,000	3,05,900	5,47,262	8,88,291	10,07,000	19,82,174	1,54,525	2,61,000	25,000	1,62,000	93,000	82,275	6,000	36,12,000	29,08,000	

NOTE.—With reference to para. 4 of India's letter, No. 305 G., dated 6th February 1888, it should be noted that the Gudiváda Division was not in existence in 1887-88, and the grant for the Periyár Project was sanctioned subsequent to the budget for that year, consequently, the figures for the former cannot be given separately, and there are no figures relating to the latter to be entered either separately or otherwise.

(Signed) C. H. P. CHRISTIE, Major, R.E.,
Examiner, Public Works Accounts.

MADRAS,
10th March 1888.

1583-84/4

Statement No. III.

STATEMENT showing the number of subdivisions in each division and the distribution of the Staff.

Division.	Officer in charge.	Subdivision.	Officer in charge.	Detached officers.	Overseers.
Rushikulya ..	Executive Engineer.	Aska	Assistant Engineer.	One Assistant Engineer (on special duty).	Three Overseers.
		Russelkonda ..	Do. ..	One temporary Sub-Engineer.	One do. One temporary Overseer.
		Surada* ..	....	....	....
Ganjam ..	Do. ..	Berhampore or head-quarters.	Executive Engineer of the Division.	....	Two Overseers.
		Chicacole ..	Sub-Engineer ..	....	One do.
		Parlákimedi ..	One temporary Sub-Engineer.	....	Two temporary Overseers.
		Vizagapatam ..	Overseer	....	Two Overseers.
Vizagapatam.	Do. ..	Vizianagarum ..	Do.	....	....
		Koraput (Special Subdivision).	Assistant Engineer.	One Supervisor ..	One Overseer.
		Head works ..	Overseer	One Assistant Engineer (on special duty).	....
		Delta	Assistant Engineer.	One Supervisor ..	One Overseer.
Godávari, Eastern.	Do. ..	Rajahmundry ..	One Supervisor ..	....	Do.
		Dumagudiem ..	Executive Engineer (temporary rank.)	....	Do.
		Workshops ..	Supervisor ..	....	....
Godávari, Central.	Assistant Engineer.	Ralli	Sub-Engineer ..	....	One Overseer.
		Nagaram ..	Assistant Engineer.	....	Two Overseers.
		Eastern	Do. ..	Supervisor.	....
Godávari, Western.	Executive Engineer.	Western ..	Supervisor ..	....	One Overseer.
		Tank and embankment.	Sub-Engineer ..	....	Do.
					One temporary Overseer.
Kistna, Eastern.	Do. ..	Head-quarters or northern.	Executive Engineer of Division.	{ One Sub-Engineer. Two Supervisors ..	{ Two Overseers.
		Southern ..	Assistant Engineer.	One Supervisor ..	One temporary Overseer.
		Gudiváda ..	Do. † ..	Do. ..	One Overseer.
					One temporary Overseer.
Kistna, Western.	Do. ..	Eastern	Do. ..	Do. ..	Two Overseers.
		Western ..	Do. ..	Do. ..	One temporary Overseer.
				Do. ..	One Overseer.
Nellore ..	Executive Engineer, (temporary rank).	Head-quarters ..	Executive Engineer of Division.	....	Do.
		Gúdúr	Supervisor ..	....	Two Overseers.
		Kandukúr ..	Do. ..	Three Supervisors ..	One Overseer.
		Sangam ..	Assistant Engineer.	....	Do.
Buckingham Canal.	Executive Engineer.	Southern ..	Sub-Engineer ..	One Supervisor ..	One temporary Overseer.
		Pulicat	Do. ..	....	....
		Pennér	Do. ..	....	One Overseer.
		Northern ..	Assistant Engineer.	One Sub-Engineer ..	....
		Head-quarters ..	Executive Engineer of Division.	One Supervisor ..	One Overseer.
Bellary ..	Do. ..	Northern ..	Supervisor ..	....	Do.
		Southern ..	Sub-Engineer ..	....	Three Overseers.
		Head-quarters ..	Executive Engineer of Division.	....	....
Cuddapah ..	Do. ..	Nandalur or Western.	Temporary Supervisor.	....	....
		Madanapalle ..	Supervisor ..	One Supervisor ..	Two Overseers.
		Cumbum ..	Do. ..	....	One Overseer.
		Canal, Upper ..	Sub-Engineer ..	....	One do.
Kurnool ..	Executive Engineer (temporary rank.)	Do. Central ..	Assistant Engineer.		One temporary Overseer.
		Do. Lower ..	Honorary Assistant Engineer.	One Supervisor ..	One Overseer.
		....	....	....	Do.
Tank Restoration Scheme, No. III Party.	Executive Engineer (India List.)				Two temporary Overseers.
				....	One Overseer.
		Mangalore or South Canara.	Sub-Engineer ..	....	....
West Coast ..	Executive Engineer.	Cannanore ..	Supervisor ..	....	Two Overseers.
		Calicut	Do. ..	....	Two do.
		Vayitri	Assistant Engineer.	One Supervisor ..	One Overseer.
		Coimbatore ..	Sub-Engineer ..	Two Supervisors ..	One do.
		Erode	Supervisor ..	One Supervisor ..	One do.
Coimbatore ..	Do. ..	Salem	Executive Engineer (temporary rank.)	Do. ..	One do.
		Barur	Sub-Engineer ..	....	Three temporary Overseers.
Tank Restoration Scheme, No. IV Party.	Do. ..	....	....		

* Not yet formed.
† An Assistant Engineer is in temporary charge. An Executive Engineer will again shortly be posted to this charge.

Statement showing the number of subdivisions in each division, &c.—*cont.*

Division.	Officer in charge.	Subdivision.	Officer in charge.	Detached officers.	Overseers.
Nilgiri ..	Executive Engineer.	No. I	Sub-Engineer ..	....	Two Overseers.
		No. II	Supervisor ..	....	....
North Arcot ..	Do. ..	Vellore	Executive Engineer (temporary rank.)	One Supervisor ..	Two Overseers. One temporary Overseer.
		Ranipett ..	Honorary Assistant Engineer.	....	Three Overseers.
Tank Restoration Scheme, No. V Party.	Temporary Supervisor.	....	....	....	One temporary Overseer.
South Arcot ..	Executive Engineer.	Head-quarters ..	Sub-Engineer ..	One Supervisor ..	....
		Tindivanam ..	Honorary Assistant Engineer.	....	Two Overseers.
		Chidambaram ..	Assistant Engineer.	....	One Overseer.
		Vriddhachallam ..	Sub-Engineer ..	....	Do.
Chingleput ..	Do. ..	Head-quarters ..	Supervisor ..	....	One temporary Overseer.
		Tiruvallur ..	Do. ..	Two Supervisors ..	One Overseer.
Tank Restoration Scheme, No. II Party.	Honorary Assistant Engineer.	Chingleput ..	Sub-Engineer ..	One Supervisor ..	Do.
		....	....	....	Two temporary Overseers.
Presidency and Bangalore.	Executive Engineer.	Madras, Military.	Supervisor ..	One Supervisor ..	....
		Do. Civil ..	Sub-Engineer ..	Do. ..	One Overseer.
Presidency Workshops.	Do. ..	Bangalore ..	Do. ..	....	Do.
		....	....	One Honorary Assistant Engineer.	....
Trichinopoly.	Do. ..	Head-quarters ..	Executive Engineer of Division.	....	Two Overseers.
		Musuri	Supervisor ..	....	....
Tanjore ..	Do. ..	Head-quarters ..	Sub-Engineer ..	....	Do.
		Tanjore.. ..	Executive Engineer (temporary rank.)	One Supervisor ..	One Overseer. Do.
		Mayaveram ..	Supervisor ..	....	....
Madura ..	Do. ..	Head-quarters ..	Executive Engineer of Division.	Do. ..	Two Overseers.
				Do. ..	One Overseer.
		Vaigai bridge ..	Executive Engineer (temporary rank.)	One Honorary Assistant Engineer. One Assistant Engineer (on probation).	Do.
		Dindigul ..	Sub-Engineer ..	Two Supervisors ..	One Overseer. One temporary Overseer.
Tank Restoration Scheme, No. I Party.	Do. ..	Periakulam ..	Do. ..	....	Four Overseers.
		....	....	....	One Overseer.
Negapatam ..	Do. ..	Head-quarters ..	Executive Engineer of Division.	One Sub-Engineer ..	Two temporary Overseers.
		Tiruturaipûndi ..	Supervisor ..	....	....
		Mannargudi ..	Assistant Engineer.	Two Supervisors ..	One Overseer.
Tinnevelly ..	Do. ..	Head-quarters ..	Executive Engineer of Division.	One Supervisor ..	....
		Tenkerai ..	Honorary Assistant Engineer.	....	....
Ramnad ..	Executive Engineer (temporary rank.)	Shermadevi ..	Sub-Engineer ..	One Supervisor ..	One Overseer. Three Overseers.
		....	....	Do. ..	One Overseer. Three temporary Overseers.
Periyar Head Works Division.	Executive Engineer.	....	....	Two Assistant Engineers.	One Overseer.
Second Division.*	....	....	....	One Supervisor ..	....
Consulting Architect.	Executive Engineer (India List.)	....	....	....	....
				One Honorary Assistant Engineer. One Supervisor ..	....

* Not yet formed.

ABSTRACT.

		Total.
Existing number of Executive and Assistant Engineers on the Madras establishment ..	81	
Two officers from the Government of India List	2	
		83
Number of Madras officers actually employed in Divisions	56	
Number of officers of the Government of India List actually employed in Divisions ..	2	
Number employed in the Secretariat	3	
Number on leave	15	
Number on other duty	7	
		83
Sanctioned number of Upper Subordinates		185
Number actually employed in Divisions	182	
On leave, &c.	3	
		185
Sanctioned number of temporary Upper Subordinates		38
Number actually employed	29	
		29

1583-84/5.

Statement No. IV.

Statement showing Area and Expenditure of Public Works Subdivisions.

Division.	Subdivisions.	Area in square miles.	Expenditure during 1887-88.	Remarks.
			Rs.	
Rushikulya ...	Aska	400	91,166	
	Russelkonda	350	71,586	
	Suradá	...	12,593	
Ganjam ...	Head-quarter or Berhampore.	1,800	70,000	
	Chicacole	461	20,000	
	Parlákimedi	615	50,000	
Vizagapatam ...	Head-quarter or Vizagapatam.	2,000	11,000	
	Vizianagrum	5,000	28,000	
	Koraput	11,000	43,000	
Godávari, Eastern.	Head Works	25	2,03,562	
	Delta	720	96,178	
	Rajahmundry	1,697	34,466	
	Dumagudiem	5	12,102	
Godávari, Central.	Ralli	320	1,20,000	
	Nagaram	185	44,000	
Godávari, Western	Eastern	520	96,962	
	Western	430	44,179	
	Tank and Embankment ...	1,620	17,018	
Kistna, Eastern ..	Head-quarter or Northern ...	1,100	95,000	
	Southern	500	81,000	
	Gudiváda	700	1,42,000	
Kistna, Western...	Eastern	670	1,36,000	
	Western	650	1,02,000	
Nellore ...	Head-quarter	1,327	1,15,000	
	Gúdúr	2,700	17,000	
	Kandukúr	4,500	26,000	
	Sangam	250	2,02,000	
Buckingham Canal.	Southern	lin. miles 70	60,000	
	Pulicat	„ 80	94,000	
	Pennér or Iskapalle ...	„ 50	55,000	
	Northern	„ 50	59,000	
Bellary ...	Head-quarter	..	..	Recently formed.
	Northern	5,948	97,776	
	Southern or Anantapur ...	5,103	28,060	
Cuddapah ...	Head-quarter or Cuddapah ..	3,104	83,897	
	Nandalúr or Western ...	1,804	8,999	
	Madanapalle	3,830	17,189	
Kurnool ...	Cumbum	7,533	19,307	
	Canal, Upper	lin. miles 65	35,500	
	Canal, Central	„ 58	35,756	
	Canal, Lower	„ 67	37,500	
West Coast ...	Mangalore or South Canara.	4,000	14,000	
	Cannanore	1,600	23,000	
	Calicut	3,200	82,000	
	Vayitri	900	1,63,000	
Coimbatore ...	Coimbatore	3,600	66,000	
	Erode	2,900	36,700	
	Salem	5,800	26,000	
	Barur	2,000	45,900	
Nilgiri ...	No. I	30	1,44,500	
	No. II	900	1,39,500	
North Arcot ...	Vellore	5,731	1,12,100	
	Ranipet	1,645	39,400	
South Arcot ...	Head-quarter	1,017	47,779	
	Tindivanam	2,257	45,500	
	Chidambaram	402	35,123	
	Vriddháchalam	1,464	24,680	

Statement showing Area and Expenditure of Public Works Subdivisions—*cont.*

Division.	Subdivisions.	Area in square miles.	Expenditure during 1887-88.	Remarks.
			Rs.	
Chingleput ...	Head-quarter	7	62,367	
	Tiruvallúr	1,190	78,320	
	Chingleput	1,645	64,716	
Presidency ...	Madras, Military	9¾	1,00,343	
	Madras, Civil	20	1,74,766	
	Bangalore	13	79,298	
Trichinopoly ...	Head-quarter	1,297	90,646	
	Musiri	2,345	18,844	
Tanjore ...	Head-quarter	448	53,103	
	Tanjore	538	77,413	
	Máyavaram	770	53,525	
Madura ...	Head-quarter	1,276	91,405	
	Vaigai bridge	...	1,20,759	
	Dindigul	1,981	31,578	
	Periyakulam	1,481	91,524	
Negapatam ...	Head-quarter	239	48,398	
	Tiruturaipúndi	466	29,599	
	Mannárgudi	1,193	32,103	
Tinnevelly ...	Head-quarter	2,111	59,737	
	Tenkarai	553	48,513	
	Shermádevi	1,642	38,935	
Ramnad	.....	2,112	76,640	
Periyár	.....	...	1,05,340	
Consulting Architect.	East	7½	58,853	
	West	4	37,572	

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PROVINCIAL SERVICES.
PUBLIC WORKS BUDGET-ESTIMATE.

GOVERNMENT OF MADRAS.

PART III.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT UNDER PROVINCIAL SERVICES IN THE MADRAS PRESIDENCY FOR 1887-88.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH.	Rs.	Rs	Rs.	Rs.	Rs.	
		Engineer Establishment.						
		Chief Engineers.						
1	1	Chief Engineer, 1st Class, and Secretary to Government, Public Works Department.	2,500	2,500				
1	1	Chief Engineer, 2nd Class, and Joint Secretary to Government, Irrigation Branch.	2,000	2,000				
		Military pay and allowances	...	445				
2	2	Total, Chief Engineers ...	...	4,945	59,340	..	59,832	
		Superintending Engineers.						
2	2	Superintending Engineers, 1st Class.	1,600	3,200				
2	2	Superintending Engineers, 2nd Class.	1,350	2,700				
2	2	Superintending Engineers, 3rd Class.	1,100	2,200				
		Military pay and allowances	...	1,209				
6	6	Total, Superintending Engineers.	...	9,309	1,11,708	...	1,23,672	
		Executive Engineers.						
11	11	Executive Engineers, 1st Grade.	950	10,450				
11	11	Executive Engineers, 2nd Grade.	800	8,800				
13	13	Executive Engineers, 3rd Grade.	700	9,100				
6	6	Executive Engineers, 4th Grade.	600	3,600				
		Military pay and allowances.	...	2,518				
41	41	Total, Executive Engineers.	...	34,468	4,13,616	...	4,51,380	
		Carried over ...	...	...	...	...	...	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	...	...	
		EXECUTIVE BRANCH —*cont.*						
		Assistant Engineers.						
32	32	Assistant Engineers, 1st Grade.	500	16,000				
8	8	Assistant Engineers, 2nd and 3rd Grades.	250 & 350	2,700				
		Military pay and allowances.	...	190				
40	40	Total, Assistant Engineers.	...	18,890	2,26,680	...	2,25,600	
91	91	Total, Engineer Establishment.	...	...	8,11,344	...	8,60,484	
		Deduct—						
		On account of absentees Rs. 80,000	...	...	(a)80,000	...	50,000	(a) Increased by Rs. 30,000.
		Net Total, Engineer Establishment.	...	...	...	7,31,344	8,10,484	
		Upper Subordinate Establishment.						
		Sub-Engineers.						
9	9	Sub-Engineers, 1st Grade...	400	3,600				
9	9	Do. 2nd „ ...	300	2,700				
17	17	Do. 3rd „ ...	250	4,250				
		Military pay and allowances including additional pay sanctioned for Messrs. Ottmann and Baker.	...	535				
35	35	Total, Sub-Engineers ...	...	11,085	1,33,020	...	1,32,780	
		Supervisors.						
22	22	Supervisors, 1st Grade ...	200	4,400				
36	36	Do. 2nd „ ...	150	5,400				
		Military pay and allowances.	...	90				
58	58	Total, Supervisors ...	...	9,890	1,18,680	...	1,20,600	
		Overseers.						
35	39	Overseers, 1st Grade ...	100	3,900				
28	28	Do. 2nd „ ...	80	2,240				
29	25	Do. 3rd „ ...	60	1,500				
		Military pay and allowances.	...	650				
92	92	Total, Overseers ...	...	8,290	99,480	..	96,960	
		Carried over ...	...	...	...	...	...	

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	...	...	
		EXECUTIVE BRANCH —*cont.*						
		Upper Subordinate Establishment—*cont.*						
		Apprentices.						
2	3	Apprentice Overseers, 1st Grade.	51	153				
		Additional remuneration for two Apprentice Instructors.	50	100				
		Total, Apprentices ...	...	253	3,036	...	2,424	
		Sub-divisional allowance for 20 Upper Subordinates.	30	600	7,200	...	7,200	
187	188	Total, Upper Subordinate Establishment.	...	...	...	3,61,416	3,59,964 — 2,400	
							3,57,564	
		Lower Subordinate Establishment.						
12	13	Sub-Overseers, 1st Grade...	50	650				
9	9	Do. 2nd „ ...	35	315				
8	8	Do. 3rd „ ...	25	200				
29	30	Total, Lower Subordinate Establishment.	...	1,165	13,980	13,980	13,380	
		Petty Establishment.						
		Store Establishment.						
1	1	Storekeeper	100	100				
1	1	Do.	50	50				
4	4	Storekeepers	30	120				
9	9	Do.	25	225				
6	7	Do.	20	140				
6	4	Do.	15	60				
1	1	Store Writer	25	25				
7	7	Store Watchers	7	49				
35	34	Total, Store Establishment.	...	769	9,228	...	9,348	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Workshop Establishment, (Presidency and Dowlaishweram).						
...	1	Foreman, Mechanics ...	130	130				
...	1	Do. Carpenter ...	45	45				
...	1	Fitter	45	45				
...	1	Foundry	40	40				
...	1	Smith	40	40				
1	1	Engraver	30	30				
1	1	Gate-keeper	10	10				
2	2	Attenders	10	20				
2	2	Boys	4	8				
6	11	Total, Workshop Petty Establishment.	...	368	4,416	...	816	
		Medical Establishment.						
1	...	Hospital Assistant ...	60	...				
2	2	Do. Assistants ...	55	110				
1	...	Do. Assistant ...	40	...				
2	2	Do. Assistants ...	35	70				
2	4	Do. do. ...	25	100				
		Charge allowance 2 at 25, 2 at 15 and 2 at 10.	...	100				
6	6	Hospital servants 1 at 7, 2 at 6, 2 at 5 and 1 at 4.	...	33				
14	14	Total, Medical Establishment.	...	413	4,956	...	5,496	
		Telegraph Establishment.						
1	1	Signaller	30	30				
2	2	Signallers	25	50				
4	4	Do.	20	80				
8	8	Do.	15	120				
12	12	Telegraph peons	6	72				
27	27	Total, Telegraph Establishment.	...	352	4,224	...	4,224	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Lascars, Sweepers, &c.						
500	500	Lascars	6	3,000				
5	5	Sweepers	2 at 5 & 3 at 4	22				
1	...	Keeper of the Chepâk Park.	35	...				
506	505	Total, Lascars, &c...	...	3,022	36,264	...	36,684	
		Irrigation Conservancy Establishment.						
		Godávari Delta System.						
1	1	Anicut Superintendent ...	150	150				
1	1	Do. Maistry	18	18				
1	1	Do. do.	15	15				
1	1	Do. do.	12	12				
3	3	Clerks	15	45				
1	1	Shroff	10	10				
3	3	Delta Superintendents ...	80	240				
2	2	Do. do. ...	70	140				
1	1	Do. Superintendent ...	60	60				
9	9	Do. Superintendents ...	55	495				
12	12	Do. do. ...	40	480				
5	5	Superintendents	8	40				
1	1	Peon	6	6				
3	3	Peons	5	15				
39	39	Lascars	6	234				
75	75	Do.	5	375				
158	158	Total, Water Regulation Establishment, Godávari Delta System.	...	2,335				
		Navigation Establishment.						
1	1	Boat Superintendent ...	75	75				
2	2	Lock Superintendents ...	15	30				
16	18	Do. do. ...	12	216				
20	20	Do. do. ...	10	200				
1	1	Do. Superintendent ...	9	9				
11	11	Do. Superintendents ...	8	88				
137	143	Do. do. ...	6	858				
77	79	Do. do. ...	5	395				
265	275	Total, Navigation Establishment, Godávari Delta System.	...	1,871	...	...	...	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Irrigation Conservancy Establishment—*cont.*						
		Kistna Delta System.						
		Water Regulation Establishment.						
1	1	Anicut Superintendent ...	120	120				
1	1	Assistant do. ...	40	40				
1	1	Clerk, 5th Class, 1st Grade.	15—20	17½				
1	1	Irrigation Clerk, 5th Class, 1st Grade.	15—20	17½				
3	3	Do. do. 2nd Grade.	10—15	12½				
5	5	Delta Superintendents ...	70	210				
6	6	Do. ...	55	275				
18	18	Do. ...	40	240				
18	18	Lascars	8	144				
30	30	Do.	7	126				
27	27	Do.	6	180				
112	112	Do.	5	135				
		Total, Water Regulation Establishment, Kistna District.	...	1517½				
		Navigation Establishment.						
3	3	Lock Superintendents						
8	8	Do. ...	15	45				
12	12	Do. ...	12	96				
15	15	Do. ...	10	120				
17	17	Do. ...	8	120				
24	24	Do. ...	7	119				
27	27	Do. ...	6	144				
2	2	Traffic Clerks	5	135				
1	1	Boat Clerk, 5th Class, 1st Grade.	15—20	24				
109	109	Total, Navigation Establishment, Kistna Delta System.	...	820½				
		Pennér Anicut System.						
		Water Regulation Establishment.						
1	1	Delta Superintendent						
1	1	Anicut do. ...	70	70				
1	1	Clerk	60	60				
			15	15				
		Carried over ...						

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		Brought forward ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	
		EXECUTIVE BRANCH —*cont.*						
		Irrigation Conservancy Establishment—*cont.*						
		Pennér Anicut System—cont.						
		Water Regulation Establishment—cont.						
1	1	Clerk	10	10				
1	1	Lascar	7	7				
17	17	Lascars	6	102				
4	4	Do.	5	20				
26	26	Total, Water Regulation Establishment, Pennér Anicut System.	...	284				
		Cauvery Delta System.						
...	1	Superintendent	75	75				
1	1	Do.	50	50				
1	1	Do.	30	30				
1	1	Do.	25	25				
...	1	Assistant Superintendent...	25	25				
3	3	Superintendents	20	60				
9	9	Do.	15	135				
1	...	Superintendent	12	...				
3	4	Superintendents	10	40				
1	1	Superintendent	8	8				
...	3	Lascars	8	24				
8	17	Do.	7	119				
31	39	Do.	6	234				
83	89	Do.	5	445				
...	1	Sweeper	5	5				
31	31	Lascars	4	124				
173	202	Total, Water Regulation Establishment, Cauvery Delta System.	...	1,399				
		Navigation Establishment.						
1	1	Lascar	7	7				
1	1	Do.	5	5				
2	2	Total, Navigation Establishment, Cauvery Delta System.	...	12				

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Irrigation Conservancy Establishment —*cont.*						
		Srivaikuntham Anicut System.						
		Water Regulation Establishment.						
2	2	Superintendents	30	60				
1	1	Superintendent	12	12				
21	21	Lascars	5	105				
24	24	Total, Water Regulation Establishment, Srivaikuntham Anicut System.	...	177				
		Chembrambakam Tank.						
		Water Regulation Establishment.						
1	1	Superintendent	12	12				
1	1	Do.	10½	10½				
2	2	Lascars	6	12				
5	5	Do.	5	25				
9	9	Total, Water Regulation Establishment, Chembrambakam Tank.	...	59½				
		Madras Water-supply and Irrigation Project.						
1	1	Superintendent	25	25				
1	1	Do.	15	15				
4	4	Lascars	7	28				
2	2	Do.	6	12				
4	4	Do.	5	20				
12	12	Total, Madras Water-supply and Irrigation Project.	...	100				
		Pálár Anicut System.						
		Water Regulation Establishment, Chingleput District.						
1	1	Maistry	20	20				
2	2	Lascars	6	12				
12	12	Do.	4	48				
		Carried over ...	...	80				

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		Brought forward ...	Rs. ...	Rs. 80	Rs. ...	Rs. ...	Rs. ...	
		EXECUTIVE BRANCH —*cont.*						
		Irrigation Conservancy Establishment—*cont.*						
		North Arcot District.						
1	1	Superintendent	25	25				
1	1	Do.	15	15				
3	3	Superintendents	12	36				
20	20	Do.	5	100				
			...	176				
40	40	Total, Water Regulation Establishment, Pálár Anicut System.	...	256				
		Pelandorai Anicut System.						
		Water Regulation Establishment.						
1	1	Superintendent	30	30				
1	1	Lascar	8	8				
2	2	Lascars	6	12				
7	7	Do.	5	35				
11	11	Total, Water Regulation Establishment, Pelandorai Anicut System.	...	85				
		Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.						
		Water Regulation Establishment, Ganjam District.						
3	4	Lascars	7	28				
...	1	Lascar	6	6				
14	10	Lascars	4	40				
1	1	Lascar	3½	3½				
18	16	Total, Water Regulation Establishment, Ganjam District.	...	77½				

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept—*cont.*						
		Water Regulation Establishment—cont.						
		North Arcot District.						
1	1	Superintendent	27	27				
2	2	Superintendents	20	40				
1	1	Superintendent	12	12				
1	1	Do.	10	10				
5	5	Lascars	6	30				
15	15	Do.	5	75				
25	25	Total, Water Regulation Establishment, North Arcot District.	...	194				
		Coimbatore District.						
1	1	Superintendent	5	5				
4	4	Lascars	2½	10				
5	5	Total, Water Regulation Establishment, Coimbatore District.	...	15				
		Malabar District.						
1	1	Watchman	4	4				
1	1	Do.	3	3				
		Additional amount sanctioned.	...	11½				
2	2	Total, Water Regulation Establishment, Malabar District.	...	18½				
		Tanjore District.						
1	1	Superintendent	50	50				
2	2	Lascars	6	12				
6	6	Do.	5	30				
9	9	Total, Water Regulation Establishment, Tanjore District.	...	92				

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept—*cont.*						
		Water Regulation Establishment—cont.						
		Vizagapatam District.						
3	3	Superintendents	12	36				
13	13	Lascars	5	65				
16	16	Total, Water Regulation Establishment, Vizagapatam District.	...	101				
		Godávari District.						
1	1	Lascar	9	9				
1	1	Do.	7	7				
2	2	Total, Water Regulation Establishment, Godávari District.	...	16				
		Chingleput District.						
1	1	Superintendent	10½	10½				
1	1	Lascar	6	6				
1	1	Do.	5	5				
3	3	Total, Water Regulation Establishment, Chingleput District.	...	21½				
		South Arcot District.						
1	1	Superintendent	40	40				
2	2	Superintendents	35	70				
1	1	Superintendent	25	25				
2	2	Superintendents	20	40				
10	10	Lascars	8	80				
9	9	Do.	6	54				
32	32	Do.	5	160				
57	57	Total, Water Regulation Establishment, South Arcot District.	...	469				

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept—*cont.*						
		Water Regulation Establishment—cont.						
		Trichinopoly District.						
1	1	Superintendent	15	15				
1	1	Do.	12	12				
2	2	Superintendents	10	20				
1	1	Lascar	6	6				
5	5	Lascars	5	25				
18	18	Do.	4	72				
4	4	Do.	3	12				
32	32	Total, Water Regulation Establishment, Trichinopoly District.	...	162				
		Madura District.						
4	4	Lascars	4	16				
4	4	Total, Water Regulation Establishment, Madura District.	...	16				
		Tinnevelly District.						
1	1	Superintendent	45	45				
2	2	Superintendents	35	70				
4	4	Do.	30	120				
8	8	Lascars	8	64				
24	24	Do.	6	144				
25	25	Do.	5	125				
64	64	Total, Water Regulation Establishment, Tinnevelly District.	...	568				
		Navigation Establishment.						
		South Arcot District.						
1	1	Superintendent	15	15				
1	1	Do.	10	10				
		Carried over ...	...	...				

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	...	...	
		EXECUTIVE BRANCH —*cont.*						
		Navigation Establishment—*cont.*						
		South Arcot District—cont.						
1	1	Lascar	8	8				
7	7	Lascars	5	35				
10	10	Total, Navigation Establishment, South Arcot District.	...	68				
		Agricultural Works, River Conservancy Establishment.						
		Godávari District.						
2	2	Superintendents	15	30				
8	8	Lascars	6	48				
10	10	Total, River Conservancy Establishment, Godávari District.	...	78				
		South Arcot District.						
1	1	Sluice-keeper	8	8				
3	3	Lascars	8	24				
6	6	Do.	5	30				
10	10	Total, River Conservancy Establishment, South Arcot District.	...	62				
		Trichinopoly District.						
2	2	Lascars	7	14				
20	20	Do.	4	80				
4	4	Do.	3	12				
10	10	Do.	2½	25				
36	36	Total, River Conservancy Establishment, Trichinopoly District.	...	131				

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Agricultural Works, River Conservancy Establishment—*cont.*						
		Tinnevelly District.						
1	1	Lascar	7	7				
4	4	Lascars	2	8				
5	5	Total, River Conservancy Establishment, Tinnevelly District.	...	15				
		Conservancy Establishment, Kurnool Canal.						
3	3	Irrigation Superintendents.	65,55&45	165				
4	4	Aniout do.	1 at 25 1 at 20 2 at 15	75				
10	10	Head Lascars	8	80				
15	15	Do.	7	105				
17	17	Lascars	6	102				
13	13	Do.	5	65				
3	3	Lascars for three Irrigation Superintendents.	6	18				
65	65	Total, Irrigation, Kurnool Canal.	...	610				
		Navigation Establishment.						
7	7	Lock Superintendents ...	12	84				
15	15	Do. ...	10	150				
20	20	Do. ...	8	160				
42	42	Total, Navigation Establishment, Kurnool Canal.	...	394				
107	107	Total, Irrigation and Navigation Establishment, Kurnool Canal.	...	1,004				
		Conservancy Establishment.						
		Sangam Project.						
1	...	Aniout Superintendent ...	60—80					
...	1	Do. do. ...		...				
...	1	Delta do. ...	60	60				
1	1	Channel do. ...	60	60				
		...	40	40				
		Carried over ...	...	...	...	...	...	

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		Brought forward ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	
		EXECUTIVE BRANCH —*cont.*						
		Conservancy Establishment—*cont.*						
		Sangam Project—cont.						
1	...	Channel Superintendent ...	30	...				
...	1	Do. do. ...	25	25				
1	...	Tank do. ...	40—60	...				
1	...	Clerk	15	...				
...	2	Clerks, 5th Class, 1st Grade.	15—20	35				
...	2	Do. 5th „ 2nd „	10—15	25				
...	1	Tank Superintendent ...	15	15				
4	2	Lascars	8	16				
4	5	Do.	7	35				
16	20	Do.	6	120				
29	36	Total, Conservancy Establishment, Sangam Project.	...	431				
		Grand Total, Conservancy Establishment.	...	12,456	1,49,472	...	1,44,612	
		Total, Petty Establishment.	...	...	2,08,560	2,08,560	2,01,180	
		Office Establishment.						
		For Chief Engineer and Secretary to Government, Public Works Department.						
1	1	Chief Assistant	600	600				
1	1	Second do.	300	300				
2	2	Clerks, 1st Class, 3rd Grade.	200—250	450				
1	1	Clerk, 2nd „ 1st „	160—200	180				
1	1	Do. 2nd „ 2nd „	120—160	140				
4	4	Clerks, 3rd „ 2nd „	100—120	110				
5	5	Do. 3rd „ 3rd „	60—80	280				
3	3	Do. 4th „ 1st „	50—60	275				
3	3	Do. 4th „ 2nd „	40—50	135				
3	3	Do. 4th „ 3rd „	30—40	105				
1	1	Draftsman, Special ...	20—30	75				
1	1	Do. 1st Class ...	200—250	225				
3	3	Attenders	50—70	60				
1	1	Muchi	15,13&10	38				
1	1	Do.	14	14				
		Carried over ...	12	12				
			...	...	...	...	...	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	...	...	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Chief Engineer and Secretary to Government, Public Works Department—cont.						
1	1	Press Messenger	10	10				
1	1	Duffadar	12	12				
1	1	Head Peon	10	10				
5	5	Peons, 1st Class	8	40				
2	2	Do. 2nd „	7	14				
42	42	Total, Public Works Secretariat Office Establishment.	...	3,085	37,020	...	37,020	
		For Chief Engineer and Joint Secretary to Government, Irrigation Branch.						
2	2	Clerks, 1st Class, 3rd Grade.	200—250	450				
1	1	Clerk, 2nd „ 3rd „ ...	100—120	110				
2	2	Clerks, 3rd „ 1st „ ...	80—100	180				
2	2	Do. 3rd „ 2nd „ ...	60— 80	140				
1	1	Clerk, 3rd „ 3rd „ ...	50— 60	55				
3	3	Clerks, 4th „ 1st „ ...	40— 50	135				
3	3	Do. 4th „ 2nd „ ...	30— 40	105				
1	1	Clerk, 4th „ 3rd „ ...	20— 30	25				
1	1	Draftsman, 1st Class ...	50— 70	60				
2	2	Draftsmen, 2nd „ ...	35— 50	85				
2	2	Do. 3rd „ ...	20— 30	50				
1	1	Reference Picker		15	15			
1	1	Do. do.		12	12			
1	1	Muchi		12	12			
1	1	Duffadar		10	10			
1	1	Head Peon		8	8			
1	1	Messenger		8	8			
2	2	Messengers		7	14			
3	3	Lascars		7	21			
31	31	Total, Office Establishment for Chief Engineer for Irrigation.	...	1,495	17,940	...	17,940	

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Six Superintending Engineers' Offices.						
1	1	Clerk, 2nd Class, 1st Grade.	160—200	180				
1	1	Do. 2nd „ 3rd „	100—120	110				
1	1	Do. 3rd „ 3rd „	50— 60	55				
1	1	Do. 4th „ 1st „	40— 50	45				
1	1	Do. 4th „ 2nd „	30— 40	35				
2	2	Clerks, 4th „ 3rd „	20— 30	50				
1	1	Draftsman, Special ...	80—100	90				
1	1	Do. 1st Class ...	50— 70	60				
1	1	Do. 2nd „ ...	35— 50	42½				
1	1	Messenger		8	8			
3	3	Messengers		6	18			
14	14	Total for each office ...	...	693½				
6	6		...	6				
84	84	Total for six offices ...	...	4,161	49,932	...	49,932	
		For Presidency Division.						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 4th „ 1st „	40—50	45				
2	2	Clerks, 4th „ 2nd „	30—40	70				
3	3	Do. 4th „ 3rd „	20—30	75				
2	2	Do. 5th „ 1st „	15—20	35				
1	1	Cashier, Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 2nd „ ...	35—50	42½				
3	3	Draftsmen, 3rd „ ...	20—30	75				
1	1	Messenger		7	7			
1	1	Do.		6	6			
17	17	Totak Office Establishment, Presidency Division.	...	555½	6,666	...	6,666	
		For Godaveri Eastern Division.						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
2	2	Clerks, 4th „ 1st „	40—50	90				
1	1	Clerk, 4th „ 2nd „	30—40	35				
		Carried over ...	...	...	...	...	...	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		Brought forward ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Godávari Eastern Division—cont.						
1	1	Cashier (Clerk, 4th Class, 2nd Grade).	30—40	35				
3	3	Clerks, 4th Class, 3rd Grade	20—30	75				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 3rd „ ...	20—30	25				
1	1	Messenger	7	7				
1	1	Do.	6	6				
12	12	Total, Office Establishment, Godávari Eastern Division.	...	403	4,836	...	4,836	
		For Kistna Eastern Division.						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 4th „ 1st „	40—50	45				
1	1	Do. 4th „ 2nd „	30—40	35				
3	3	Clerks, 4th „ 3rd „	20—30	75				
1	1	Cashier (Clerk, 4th Class, 3rd Grade).	20—30	25				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 3rd „ ...	20—30	25				
1	1	Messenger	7	7				
1	1	Do.	6	6				
11	11	Total, Office Establishment, Kistna Eastern Division.	...	348	4,176	...	4,176	
		For Eight First-class Divisions.(*a*)						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 4th „ 1st „	40—50	45				
1	1	Do. 4th „ 2nd „	30—40	35				
2	2	Clerks, 4th „ 3rd „	20—30	50				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 3rd „ ...	20—30	25				
1	1	Messenger	7	7				
1	1	Do.	6	6				
9	9	Total for each office ...	...	298	...	...	...	
8	8			8				
72	72	Total for eight offices ...	...	2,384	28,608	...	28,608	

(*a*) 1. Godávari Western division.
2. Kistna Western division.
3. South Arcot division.
4. Buckingham Canal division.
5. Tanjore division.
6. Tinnevelly division.
7. Coimbatore division.
8. West Coast division.

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs. ...	Rs. ...	
		Office Establishment —*cont.*						
		For Kurnool Division.						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 3rd „ 3rd „	50—60	55				
1	1	Do. 4th „ 1st „	40—50	45				
2	2	Clerks, 4th „ 2nd „	30—40	70				
2	2	Do. 4th „ 3rd „	20—30	50				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 2nd „ ...	35—50	42½				
1	1	Do. 3rd „ ...	20—30	25				
2	2	Messengers	6	14				
1	1	Messenger		6				
13	13	Total, Office Establishment, Kurnool Division.	...	437½	5,250	...	5,250	
		For Eight Second-class Divisions. (*b*)						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 4th „ 2nd „	30—40	35				
2	2	Clerks, 4th „ 3rd „	20—30	50				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 3rd „ ...	20—30	25				
1	1	Messenger	7	7				
1	1	Do.	6	6				
8	8	Total for each office ...	...	253	...	...	...	
7	8			8				
56	64	Total for eight offices ...	...	2,024	...	...	...	
		Add—						
1	1	Cashier (Clerk, 4th Class, 1st Grade) for Sangam Project.	40—50	45				
1	1	Clerk, 4th Class, 3rd Grade, for North Arcot division.	20—30	25				
		Difference of pay between a 2nd Class Draftsman and 3rd Class for Sangam division.	...	17½				
58	66	Total for eight offices ...	...	2,111½	25,338	...	22,302	

(*a*) 1. Nellore division.
2. Cuddapah do.
3. North Arcot do.
4. Chingleput do.
5. Trichinopoly do.
6. Negapatam do.
7. Sangam Project division.
8. Madura division.

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Nilgiri Division.						
1	1	Clerk, 3rd Class, 1st Grade.	80—100	90				
1	1	Do. 3rd „ 2nd „	60— 80	70				
1	1	Do. 3rd „ 3rd „	50— 60	55				
2	2	Clerks, 4th „ 1st „	40— 50	90				
1	1	Draftsman (Special) ...	100—120	110				
1	1	Do.	70— 80	75				
1	1	Messenger	10	10				
1	1	Do.	9	9				
9	9	Total, Office Establishment, Nilgiri Division.	...	509	6,108	...	6,108	
		For Three Third-class Divisions. (*a*)						(*a*) 1. Ganjam. 2. Vizagapatam. 3. Bellary.
1	1	Clerk, 3rd Class, 3rd Grade.	50—60	55				
1	1	Do. 4th „ 2nd „	30—40	35				
2	2	Clerks, 4th „ 3rd „	20—30	50				
1	1	Draftsman, 2nd Class ...	35—50	42½				
1	1	Do. 3rd „ ...	20—30	25				
1	1	Messenger	7	7				
1	1	Do.	6	6				
8	8	Total for each office ...	...	220½				
4	3		...	3				
32	24	Total for three offices ...	...	661½				
		Add—						
1	1	Clerk, 4th Class, 3rd Grade, for Bellary division.	20—30	25				
33	25	Total for three offices ...	...	686½	8,238	...	10,884	

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		Office Establishment of the Consulting Architect to Government.						
1	1	Clerk, 1st Class, 3rd Grade.	200—250	225				
1	1	Do. 4th „ 1st „	40— 50	45				
2	2	Clerks, 4th „ 3rd „	20— 30	50				
1	1	Clerk, 5th „ 1st „	15— 20	17½				
1	1	Draftsman, 1st Class ...	50— 70	60				
1	1	Do. 2nd „ ...	35— 50	42½				
2	2	Draftsmen, 3rd „ ...	20— 30	50				
1	1	Messenger	7	7				
2	2	Messengers	6	6				
11	11	Total, Office Establishment for Consulting Architect to Government.	...	503	6,036	...	6,036	
		For Public Works Stores.						
1	1	Storekeeper	300	300				
1	1	Store Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 4th Class, 2nd Grade.	30—40	35				
1	1	Do. 4th „ 3rd „	20—30	25				
1	1	Messenger	8	8				
2	2	Messengers	7	14				
2	2	Do.	6½	13				
9	9	Total, Office Establishment, Public Works Stores.	...	465	5,580	...	5,580	

PROVINCIAL SERVICES.
PUBLIC WORKS BUDGET-ESTIMATE.

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Estimate for 1887-88. Per Annum.	Estimate for 1887-88. Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Public Works Workshops, Presidency.						
1	1	Clerk, 3rd Class, 2nd Grade.	60—80	70				
1	1	Do. 3rd „ 3rd „	50—60	55				
1	1	Do. 4th „ 1st „	40—50	45				
1	1	Do. 4th „ 3rd „	20—30	25				
1	1	Do. 4th „ 3rd „	15—20	70				
4	4	Clerks, 5th „ 1st „	10—15	12½				
1	1	Clerk, 5th „ 2nd „	50—70	60				
1	1	Draftsman, 1st Class ...	35—50	42½				
1	1	Do. 2nd „ ...	7	28				
4	4	Messengers						
15	15	Total, Office Establishment, Presidency Workshops.	...	408	4,896	...	4,896	
		For Public Works Workshops, Dowlaishweram.						
...	1	Clerk, 3rd Class, 3rd Grade.	50—60	55				
...	1	Do. 4th „ 2nd „	30—40	35				
...	3	Clerks, 4th „ 3rd „	20—30	75				
...	1	Clerk, 5th „ 1st „	15—20	17½				
...	1	Duffadar	9	9				
...	5	Gate Peons	6	30				
...	1	Office Peon	6	6				
...	4	Store Peons	6	24				
...	17	Total, Office Establishment, Public Works Workshops, Dowlaishweram.	...	251½	3,018	...	...	
		Office (Toll) Establishment, Buckingham Canal.						
1	1	Wharf Superintendent ...	50	50				
2	2	Clerks, 5th Class, 1st Grade.	15—20	35				
2	2	Toll-keepers	15	30				
2	2	Wharf Clerks	17½	35				
1	1	Clerk, 4th Class, 3rd Grade.	20—30	25				
1	1	Assistant Toll-keeper ...	10—15	12½				
1	1	Shroff	8	8				
4	4	Lascars	7	28				
12	12	Do.	6	72				
26	26	Total, Office (Toll) Establishment, Buckingham Canal.	...	295½	3,546	...	3,546	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Estimate for 1887-88. Per Annum.	Estimate for 1887-88. Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Project Divisions.						
16	...		...	...	...	...	6,492	
		For Sixty-four Sub-divisional Offices.						
1	1	Clerk, 4th Class, 3rd Grade.	20—30	25				
1	1	Messenger	6	6				
2	2	Total for each office ...	...	31				
64	64		...	64				
128	128	Total for sixty-four Sub-divisional offices.	...	1,984				
		For Two Sub-divisional Offices in Nilgiri Division.						
1	1	Clerk, 4th Class, 2nd Grade.	30—40	35				
1	1	Messenger	9	9				
2	2	Total for each office ...	...	44				
4	4	Total for two offices ...	...	88				
132	132	Total for Sub-divisional offices.	...	2,072	24,864	...	24,864	
		For Seventy-five Detached Officers.						
1	1	Clerk, 4th Class, 3rd Grade.	20—30	25				
1	1	Total for each Detached Officer.	...	25				
75	75		...	75				
75	75	Total for seventy-five Detached Officers.	...	1,875	22,500	...	22,500	
		For Ninety-two Overseers.						
1	1	Clerk, 5th Class, 1st Grade.	15—20	17½				
1	1	Total for each Overseer ...	...	17½				
92	92		...	92				
92	92	Total for ninty-two Overseers.	...	1,610	19,320	...	19,320	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Office Establishment —*cont.*						
		Abstract of Office Establishment.						
42	42	Public Works Department Secretariat.	...	...	37,020	...	37,020	
31	31	Office of Chief Engineer for Irrigation.	...	...	17,940	...	17,940	
84	84	Six Superintending Engineers' offices.	...	...	49,932	...	49,932	
17	17	Presidency Division office.	...	...	6,666	...	6,666	
12	12	Godávari Eastern Division.	...	...	4,836	...	4,836	
11	11	Kistna Eastern Division ...	...	...	4,176	...	4,176	
85	85	Nine First-class Divisions including Kurnool.	...	...	33,858	...	3,3858	
58	66	Eight Second-class Divisions	...	...	25,338	...	22,302	
9	9	Nílgiri Division	...	...	6,108	...	6,108	
33	25	Three Third-class Divisions	...	...	8,238	...	10,884	
11	11	Consulting Architect to Government.	...	...	6,036	...	6,036	
9	9	Public Works Stores ...	...	...	5,580	...	5,580	
15	32	Public Works Workshops, Presidency and Dowlaishweram.	...	...	7,914	...	4,896	
26	26	Toll Establishment, Buckingham Canal.	...	...	3,546	...	3,546	
16	...	Project Divisions ...	...	...	...	...	6,492	
132	132	Sub-divisional offices ...	...	...	24,864	...	24,864	
75	75	Detached officers	...	...	22,500	...	22,500	
92	92	Overseers	...	...	19,320	...	19,320	
758	759		...	...	2,83,872	2,83,872	2,86,956	
		Temporary Establishment.	...	...	82,542	82,542	3,00,000	
		Local Allowances.						
		Upper Godávari allowances.	...	30	360	...	...	
		Wynaad allowances ...	...	...	4,000	...	...	
		Potinghy Ghât allowances.	...	...	7,200	...	...	
		Presidency house-rent ...	...	...	4,800	...	...	
		Do. allowance ...	...	...	9,000	...	...	
		Total, Local Allowances ...	...	...	25,360	25,360	31,740	
		Total Salaries ...	...	...	17,13,526	...	20,01,304	
		Travelling allowances ...	...	...	...	†1,81,796	2,40,000	

† Reduced by Rs. 58,204, being the share of travelling allowances on account of temporary establishment for which no provision is made.

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		EXECUTIVE BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Contingencies inclusive of Postage.						
		Public Works Department Secretariat office ... Rs. 500						
		Office of Chief Engineer for Irrigation. 150						
		6 Superintending Engineers' offices at Rs. 100. 600						
		27 Divisional offices .. 2,700						
		2 Workshops. 100						
		—— 3,400						
		4,050	...	4,050	48,600	48,600	48,600	
		Total ...	...	...	...	19,37,470	22,89,904	
		ACCOUNTS BRANCH.						
...	1	Examiner, 1st Class ...	1,600	1,600				
1	...	Do. 2nd „ ...	1,350	...				
1	2	Dy. Examiners, 1st Grade.	600 & 550	1,150				
1	...	Dy. Examiner, 2nd „	500	...				
...	1	Assistant Examiner ...	400	400				
3	4	Total, Examiners ...	...	3,150	37,800	...	28,800	
		Accountants.						
2	2	Accountants, 1st Grade ...	350—450	800				
3	3	Do. 2nd „ ...	250—340	885				
8	9	Do. 3rd „ ...	160—240	1,800				
18	17	Do. 4th „ ...	80—150	1,955				
30	27	Do. 5th „ ...	40— 75	1,552½				
61	58	Total, Accountants ...	...	6,992½	83,910	...	84,960	
		Office Establishment.						
1	1	Clerk, 2nd Class, 2nd Grade	120—160	140				
1	1	Do. 3rd „ 1st „	80—100	90				
4	4	Clerks, 3rd „ 2nd „	60— 80	280				
7	7	Do. 3rd „ 3rd „	50— 60	385				
6	6	Do. 4th „ 1st „	40— 50	270				
10	10	Do. 4th „ 2nd „	30— 40	350				
18	18	Do. 4th „ 3rd „	20— 30	450				
16	16	Do. 5th „ 1st „	15— 20	280				
2	...	Do. 5th „ 2nd „	10— 15	...				
65	63	Total, Clerks ...	...	2,245	...	...	...	

GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		ACCOUNTS BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Menial Servants.						
	1	Attender	12	12				
...	1	Do.	10	10				
...	1	Do.	12	12				
1	1	Muchi	10	10				
1	1	Do.	8	8				
1	1	Do.	5	5				
1	1	Attender	10	10				
1	1	Head Messenger	8	8				
1	1	Do.	7	28				
4	4	Messengers	6	36				
6	6	Do.	5	10				
2	2	Rollers						
18	20	Total, Menial Servants ...	...	149	...	...	...	
83	83	Total, Office Establishment.	...	2,394	28,728	...	28,764	
		Local and Charge Allowances.						
		Presidency, house-rent ...	...	400				
		Do. allowance ...	...	1,000				
		Charge allowance for 20 Accountants, 5th Grade.	20	400				
		Total, Local and Charge Allowances.	...	1,800	21,600	...	25,200	
		Total Salaries	...	...	...	1,72,038	1,68,724	
		Travelling allowances ...	...	...	...	3,000	3,600	
		Contingencies	...	...	...	3,000	4,800	
		Grand Total ...	...	...	...	1,78,038	1,77,124	
		Deduct—						
		Contributions as follows: Coorg 1 Accountant, 3rd Grade.	200					
			200	2,400	...	...	...	
		Contribution on account of audit for Coorg.	...	3,500	...	...	...	
			...	5,900	...	—5,900	7,872	
			...	...	...	1,72,138	1,69,252	

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GOVERNMENT OF MADRAS.

PART III—continued.

DETAIL OF THE BUDGET-ESTIMATE FOR ESTABLISHMENT, &c.—continued.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
		ACCOUNTS BRANCH —*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
		Abstract.						
		Executive Branch	...	...	19,37,470	...	22,89,904	
		Accounts do.	...	...	1,72,138	...	1,69,252	
		Grand Total, Public Works Department Establishment.	...	...	21,09,608	...	24,59,156	

PROVINCIAL SERVICES.
PUBLIC WORKS BUDGET-ESTIMATE.

MADRAS

GOVERNMENT OF MADRAS.

PART III—concluded.

ABSTRACT OF THE FOREGOING PROVISION FOR ESTABLISHMENT.

Number. 1886-87.	Number. 1887-88.	Particulars.	Salary of Office.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		Total, Public Works Establishment.	...	...	21,09,608	21,09,608	24,59,156	
		Deduct Contributions.						
		Wards Works	...	...	60,000			
		Imperial Military	...	...	1,03,000			
		Imperial Civil Works ...	...	...	6,200			
		Incorporated Local Funds ...	...	...	47,487			
		Excluded Local Funds ...	...	...	...			
		35. Famine Relief and Insurance.						
		Construction of Protective Irrigation Works.	...	...	46,000			
		42. Irrigation Major Works (Working Expenses).	...	...	3,67,720			
		48. Capital Expenditure on Public Works (not charged against Revenue) Irrigation.	...	...	1,93,585			
		43. Provincial Irrigation, Minor Works and Navigation.	...	...	6,35,616			
						14,59,608	16,35,424	
		Balance debitable to Provincial.	...	...	...	6,50,000	8,23,732	

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APPENDIX B.

Statement showing the total estimated Cost of Establishment of Public Works Department for 1887-88.

—	Salaries.	Travelling allowances.	Contingencies.	Total.
	Rs.	Rs.	Rs.	Rs.
(1) Direction	3,00,324	(a) 21,523	15,000	3,36,847
(2) Accounts	1,59,686	3,000	3,000	1,65,686
(3) Construction	14,13,202	1,60,273	33,600	16,07,075
Total ...	18,73,212	1,84,796	51,600	21,09,608

(a) Actuals for 1886-87.

Madras,
19th March 1887.

(Signed) C. H. P. CHRISTIE, Major, R.E.,
Examiner, Public Works Accounts, Madras.

APPENDIX C.

	Works grant.	Revenue.		23 per cent. on Works grant.	10 per cent. on Direct Revenue Irrigation.	6 per cent. on Indirect Revenue Irrigation.	5 per cent. on Direct Revenue, Buildings and Roads.	Special contribution for scrutiny of Local Fund estimates.	Cost of Establishment actually employed.	Total contributions.	Estimated cost of Establishment for 1887-88.
		Direct.	Indirect.								
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Imperial, Military	4,42,600	25,000	...	1,01,750	...	...	1,250	...	...	1,03,000	...
Do. Civil Works	27,000	...	...	6,200	...	...	...	...	...	6,200	...
35. Imperial Irrigation, Famine Relief and Insurance. Construction of Protective Irrigation Works	3,05,000	...	...	46,000	...	...	...	...	...	46,000	...
42. Imperial Irrigation. Major Works (Working Expenses).	5,47,262	1,62,000	36,12,000	1,23,800	16,200	2,16,720	...	...	11,000	3,67,720	...
48. Imperial Irrigation. Capital Expenditure on Public Works (not charged against Revenue)	8,88,291	...	...	1,93,585	...	...	...	...	...	1,93,585	...
Provincial, Civil Works ...	10,07,000	93,000	...	2,31,610	...	...	4,650	...	...	2,36,260	...
43. Provincial Irrigation, Minor Works and Navigation ...	19,82,174	82,275	29,08,000	4,09,809	8,227	1,74,480	...	...	43,100	6,35,616	...
Incorporated Local	1,54,528	6,000	...	32,187	...	...	300	15,000	...	47,487	...
Excluded Local	...	...	...	...	...	...	...	...	...	...	...
Court of Wards	2,61,000	...	...	60,000	...	...	...	...	...	60,000	...
Total ...	56,14,855	...	...	...	...	...	...	..	...	16,95,868	21,09,608

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APPENDIX D.

DISTRIBUTION RETURN

OF THE

EXECUTIVE ESTABLISHMENT, P.W.D.,

25TH APRIL 1887.

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STATEMENT SHOWING ESTABLISHMENT SANCTIONED AND EXISTING.

Circles.	Divisions.	Sanctioned.			Existing 25th April 1887.			Remarks.
		Executive Engineers.	Assistant Engineers.	Upper Sub-ordinates.	Executive Engineers.	Assistant Engineers.	Upper Sub-ordinates.	
I.	Ganjam	2	3	9	1	3	6	
	Vizagapatam	1	1	6	1	1	3	
	Godâvari, East	1	2	8	1	2	8	
	Do. West ..	1	2	4	1	1	6	
	Do. Central ..	1	2	5	..	2	2	
		6	10	32	4	9	25	
II.	Kistna, East	2	3	9	*2	2	7	*1 Superintending Engineer temporary.
	Do. West	1	2	6	..	3	4	
	Nellore	1	3	9	..	3	12	
	Buckingham Canal ..	1	1	8	1	1	7	
		5	9	32	3	9	30	
III.	Bellary	1	..	6	†2	..	6	†1 do.
	Cuddapah	1	1	4	1	..	4	
	Kurnool	2	1	11	..	2	11	
		4	2	21	3	2	21	
IV.	Nilgiris	1	..	4	1	..	3	
	Coimbatore	2	2	12	2	1	11	
	West Coast	1	1	8	1	1	8	
		4	3	24	4	2	22	
V.	North Arcot	1	2	7	‡2	1	7	‡1 do. Substantive *pro tem.*
	South Arcot	1	1	8	2	1	11	
	Chingleput	2	1	7	1	1	9	
	Presidency and Bangalore.	1	1	7	1	..	8	
	Do. Workshops ..	1	..	2	1		1	
		6	5	31	7	4	36	
VI.	Trichinopoly	1	..	6	..	..	6	
	Tanjore	1	2	9	1	1	9	
	Negapatam	1	1	7	..	2	5	
	Madura	2	1	12	1	2	15	
	Ramnad	..	..	..	1	..	2	
	Tinnevelly	1	1	6	1	..	7	
		6	5	40	4	5	44	
	Secretariat	2	..	..	2	..	..	
	Consulting Architect ..	1	..	2	1	..	2	
	Supernumeraries ..	7	6	3	13	7	5	
	Total ..	41	40	185	41	38	185	

SECRETARIAT.

Colonel J. O. Hasted, R.E.,	E.W., and W.
Captain W. L. C. Baddeley, R.E.,	D.E.W., and D.W.
Colonel H. R. Mead, R.E.,	E.I., and I.
J. P. Davidson,	Assistant E.I., and D.I.

CONSULTING ARCHITECT DIVISION.

(1. 0. 3.)

J. W. Brassington, A.M.I.C.E.,	Executive Engineer.	Consulting Architect, Offg.
J. H. Stephens,	Assistant do.	Honorary.
Sergeant C. Smith, R.E.,	Supervisor.	

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I CIRCLE.

G. T. Walch, Superintending Engineer, Temporary.

Ganjam Division.

* (2. 3. 9.)

J. Hannan,	Executive Engineer.	
H. E. Evans,	Do. do.	Substantive *pro tem.*
J. H. Medlicott,	Do. do.	Temporary.
G. F. Handcock,	Assistant do.	
S. Venkataramanayya Pantulu, B.C.E.,	Sub-Engineer.	
Serjeant E. Huson,	Overseer.	
C. Ramanna Pantulu,	Do.	
C. H. Marrow,	Do.	
P. Donohoe,	Do.	
S. Ramayya,	Do.	On privilege leave till 7th July 1887.

Vizagapatam Division.

(1. 1. 6.)

Lieut.-Col. A. T. Fraser, R.E.,	Executive Engineer.	
W. Knowles,	Assistant do.	
T. T. Russell,	Overseer.	
Serjeant T. Turner,	Do.	
Do. W. Lewis,	Do.	

Godâvari Eastern Division.

(1. 2. 8.)

J. E. Paul,	Executive Engineer.	
J. F. Somers-Eve,	Assistant Engineer.	
S. B. Murray,	Do. do.	
J. D. Legge,	Sub-Engineer.	
Sub-Conductor E. W. Bennett,	Supervisor.	Dowlaishweram Workshops.
Serjeant J. H. Ulyett,	Overseer.	
C. W. Traish,	Supervisor.	
Serjeant J. Alford,	Overseer.	

* The figures in brackets indicate the sanctioned scale of Executive Engineers, Assistant Engineers, and Upper Subordinates for each Division.

B. Kannayya Lal,	Overseer.	
P. Narasimha Rau,	Do.	
S. Mutya Pillai,	Do.	

Godâvari Western Division.

(1. 2. 5.)

W. C. DeMorgan,	Executive Engineer.	
J. S. Wilson,	Assistant do.	
R. Vaidyanatha Aiyar, B.C.E.,	Sub-Engineer.	
G. Venkatarau Pantulu,	Do.	
J. Kelly,	Supervisor.	
Serjeant J. E. Patton,	Do.	
S. Trutwein,	Do.	
D. Venkataratnam Pillai,	Do.	

Godâvari Central Division.

(1. 2. 4.)

W. C. Lewis,	Assistant Engineer.	In charge.
R. A. Srinivasa Aiyangar,	Do. do.	Probationary.
Serjeant S. Hearne,	Overseer.	
T. N. Rajaram Rau,	Do.	

II CIRCLE.

G. D. Wybrow,	Superintending Engineer.	Temporary.

Kistna Eastern Division.

(2. 3. 9.)

C. H. B. Burlton,	Executive Engineer.	
H. A. Moss,	Assistant do.	
C. H. D. Marjoribanks,	Do. do.	
W. A. Mathews, A.C.E., B.C.E.,	Sub-Engineer.	
T. Subrahmanya Aiyar, B.A., B.C.E.,	Supervisor.	
Serjeant F. Humbly, R.E.,	Do.	
T. Ramanujam Pillai,	Do.	
Serjeant T. G. Blake,	Overseer.	
Mir Sadr-ud-din Sahib, A.C.E.,	Do.	
V. Gangayya,	Do.	

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Kistna Western Division.

(1. 2. 6.)

S. D. Pears,	Executive Engineer.	Temporary.
C. W. Wood,	Assistant Engineer.	
A. C. Pereira,	Do. do.	
A. Narayanaswami Mudaliyar,	Supervisor.	On sick leave till 10th July 1887.
A. Nilakanta Sastri, B.C.E.,	Do.	
J. F. Fonseca,	Do.	
S. Vijayaraghavulu Das Nayudu,	Do.	

Nellore Division.

(1. 3. 9.)

A. A. G. Malet,	Executive Engineer.	Temporary.
J. J. Whiteley,	Do. do.	do.
S. Subrahmanya Aiyar,	Assistant do.	
Conductor J. Lalor,	Sub-Engineer.	
Serjeant E. Cope,	Supervisor.	
T. D. Enright,	Do.	
R. A. Salisbury,	Do.	
Serjeant J. Cherry,	Do.	
J. R. Hendrick,	Do.	On privilege leave till 12th May 1887.
J. A. Sydenham,	Overseer.	
P. Whitbread,	Do.	
Serjeant A. Donaghue,	Do.	
A. Venkatarangarau Nayudu,	Do.	
T. Sabhapati Mudaliyar,	Do.	
C. Singaravelu Mudaliyar,	Do.	

Buckingham Canal Division.

(1. 1. 8.)

C. Vincent,	Executive Engineer.	
F. J. Wilson,	Do. do.	Temporary.
Conductor J. A. Power,	Sub-Engineer.	
H. M. Bond,	Do.	
R. Enright,	Supervisor.	
A. Murugesa Mudaliyar,	Do.	Under suspension.
C. H. R. Morton,	Do.	
D. Venkataswami Nayudu,	Overseer.	
P. Narayanaswami Nayudu,	Do.	

III CIRCLE.

C. J. Peters,	Superintending Engineer.	Temporary.

Bellary Division.

(1. 0. 6.)

A. H. Garrett,	Executive Engineer.	
Captain W. Jackson,	Assistant do.	Supernumerary.
Sub-Conductor R. W. Ward,	Sub-Engineer.	
T. Muniswami Mudaliyar,	Overseer.	
H. S. Lazarus,	Do.	
Private J. Ruck,	Do.	
Serjeant W. Rule,	Do.	

Cuddapah Division.

(1. 1. 4.)

J. C. Johnston,	Executive Engineer.	
Serjeant S. Ainley,	Supervisor.	
N. Kumarasawmi Achari,	Overseer.	
C. W. Chinnappa Pillai,	Do.	
N. Appadurai Mudaliyar,	Do.	

Kurnool Division.

(2. 1. 11.)

G. P. Carless,	Executive Engineer.	Temporary.
S. Gopala Krishna Aiyar, B.C.E.,	Do. do.	Do.
S. W. Ottmann,	Assistant do.	Honorary.
Sub-Conductor H. Frankland,	Sub-Engineer.	
Conductor J. Nicholson,	Do.	
E. A. French, A.C.E.,	Supervisor.	
S. Panchapakesa Aiyar,	Overseer.	
J. Lawrence,	Do.	
Serjeant L. Donaghue,	Do.	
E. Krishna Aiyar,	Do.	
A. W. J. Tims,	Do.	
M. Muttuvira Pillai,	Do.	
T. A. Monisse,	Do.	

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IV CIRCLE.

Colonel J. Beatty, R.E.,	Superintending Engineer.	

Nilgiri Division.

(1. 0. 4.)

W. B. deWinton,	Executive Engineer.	
Sub-Conductor R. A. Bragg,	Sub-Engineer.	
Sub-Conductor A. C. Lord,	Supervisor	
Serjeant H. Webb,	Do.	

Coimbatore Division.

(2. 2. 12.)

Captain O. V. Boddy, R.E.,	Executive Engineer.	On privilege leave till 2nd June 1887.
S. Subharaya Chariyar,	Do. do.	
A. T. Mackenzie,	Do. do.	Temporary.
Sub-Conductor J. Cormac,	Sub-Engineer.	
J. Mahony,	Sub-Engineer.	
R. Kalyanarama Aiyar, A.C.E.,	Supervisor.	
S. C. Saldanha, B.C.E.,	Do.	
Sub-Conductor T. B. Smith,	Do.	
N. Nadhamuni Mudaliyar,	Do.	
S. Raghava Aiyangar,	Do.	
Serjeant R. T. Healy,	Overseer.	
C. Masilamani Mudaliyar,	Do.	
L. A. Rangaswami Aiyar,	Do.	
C. Murugesa Mudaliyar,	Do.	

West Coast Division.

(1. 1. 8.)

H. S. Taylor,	Executive Engineer.
P. R. Allen,	Assistant do.
Conductor R. P. Lennon,	Sub-Engineer.
Serjeant D. Mackintosh, R.E.,	Supervisor.
Sub-Conductor H. Hollingsworth,	Do.
A. E. C. Vaz,	Overseer.
J. Timothy,	Do.
J. Pereira,	Do.
S. B. DeRebello,	Do.
E. S. Noronho,	Do.

V CIRCLE.

Colonel W. H. Burton, R.E.,	Superintending Engineer.	Substantive *pro tem.*
Colonel H. M. Vibart, R.E.,	Do. do.	Going on furlough.

North Arcot Division.

(1. 2. 7.)

Colonel H. Smalley, R.E.,	Executive Engineer.	
F. W. Ashpitel,	Assistant do.	
Lieutenant W. C. S. West,	Do. do.	Supernumerary.
V. Kuppuswami Aiyangar,	Supervisor.	
V. R. Kuppuswami Mudaliyar,	Overseer.	
Serjeant H. Slaney,	Do.	
J. Willis,	Do.	
S. T. Raghava Aiyangar,	Do.	
V. Subrahmanya Sastri,	Do.	

South Arcot Division.

(1. 1. 8.)

J. Larminie,	Executive Engineer.	Going on furlough.
J. W. Martin,	Do. do.	
C. A. Smith,	Do. do.	Temporary.
H. C. Berlie,	Sub-Engineer.	
Sub-Conductor F. Heinig,	Do.	
J. E. Lafrenais,	Do.	
J. C. Dennehy,	Supervisor	
W. Masilamani Mudaliyar,	Overseer.	
G. M. Subbarayulu Nayudu,	Do.	
V. Krishnaswami Mudaliyar,	Do.	
P. Ramanarayan Pondai,	Do.	
V. Govindarajulu Mudaliyar,	Do.	
Gunner T. Murphy,	Do.	
S. Panchanatha Aiyar,	Do.	

Chingleput Division.

(2. 1. 7.)

Captain L. Langley, R.E.,	Executive Engineer.	
A. M. Hayes,	Do. do.	Temporary. On privilege leave.
C. Muhammad Qasim Sahib,	Assistant do.	Honorary.
J. B. Sanderson,	Sub-Engineer.	

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C. Velayudham Mudaliyar,	Supervisor.	
Sub-Conductor J. Kelly,	Do.	
K. Duraiswami Pillai,	Do.	
C. R. Chinnaswami Aiyangar, B.C.E.,	Do	Substantive *pro tem.*
P. Panchapakesa Aiyar,	Overseer.	
M. R. Bresnahan,	Do.	
N. Murugesa Mudaliyar,	Do.	

Presidency and Bangalore Division.

(1. 1. 7.)

Colonel R. Thompson, R.E.,	Executive Engineer.	
Captain W. D. Lindley,	Assistant do.	
Lieutenant S. C. Plummer,	Do. do.	Supernumerary.
Conductor A. Milne,	Sub-Engineer.	Apprentice Instructor.
Serjeant A. Temple,	Supervisor.	Do.
Serjeant R. W. MacAlister, R.E.,	Do.	
Serjeant T. Green, R.E,	Do.	
Abdul Latif Sahib,	Do.	
A. Kuppuswami Mudaliyar,	Overseer.	On privilege leave.
C. Shanmukham Mudaliyar,	Do.	
Corporal W. L. Emery,	Apprentice Overseer.	
Lance-Corporal B. Reynolds,	Do.	
„ „ P. King,	Do.	

Workshops.

(1. 0. 2.)

A. Joyce,	Executive Engineer.	
S. Francis,	Sub-Engineer.	

VI CIRCLE.

Lt.-Colonel J. Pennycuick, R.E.,	Superintending Engineer.	

Trichinopoly Division.

(1. 0. 6.)

Lt. & Dy. Asst. Commy. D. Falvey,	Executive Engineer.	Officiating.
C. S. Srinivasa Aiyar,	Overseer.	
K. C. Visvanatha Aiyar,	Do.	
J. B. Rodrigues,	Do.	

P. Moses,	Overseer.	
S. Sambasiva Aiyar,	Do.	

Tanjore Division.

(1. 2. 9.)

C. M. Smith,	Executive Engineer.	
A. M. Foord,	Do. do.	Temporary.
T. Subrahmanya Pillai,	Assistant do.	Honorary.
S. Krishnamachariyar, B.C.E.,	Sub-Engineer.	
V. Kodandapani Mudaliyar,	Supervisor.	
E. Dady,	Do.	
N. Rajagopala Aiyangar, B.C.E.,	Do.	
P. Ratnaswami Mudaliyar,	Do.	
K. Visvanatha Aiyar,	Overseer.	
M. Muniswami Mudaliyar,	Do.	
N. Ramaswami Pillai,	Do.	

Negapatam Division.

(1. 1. 7.)

G. E. Manson,	Executive Engineer.	Temporary.
J. Inglis,	Assistant do.	
Conductor C. J. Littlewood,	Sub-Engineer.	Substantive *pro tem.*
T. Vaidyalingum Pillai,	Supervisor.	
A. D. Joseph Pillai,	Do.	
D. Muttirulappa Pillai,	Overseer.	
J. C. Campbell,	Do.	

Madura Division.

(2. 1. 12.)

J. Grimes,	Executive Engineer.	
H. E. Clerk,	Do. do.	Temporary.
R. Gopala Aiyar, B.C.E.,	Assistant do.	Probationary.
C. Chinnatambi Pillai, A.C.E.,	Sub-Engineer.	
P. Mahony,	Do.	
J. M. Taylor,	Supervisor.	
Abdul-Karim Khan Sahib,	Do.	
V. Nityananda Mudaliyar, B.A., B.C.E.,	Supervisor.	
C. Vettivelu Pillai,	Do.	

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C. Subrahmanya Aiyar,	Overseer.	
V. Subharaya Pillai,	Do.	
S. K. Ramachandra Sastri,	Do.	
T. Gnanasambandam Pillai,	Do.	
P. M. Arumukham Pillai,	Do.	
R. Srinivasachariyar,	Do.	
H. LaFontaine,	Do.	
P. Krishnamachari,	Do.	
J. W. Walsh,	Do.	

Tinnevelly Division.

(1. 1. 6.)

A. S. Russell,	Executive Engineer.	
W. V. Baker,	Assistant do.	Honorary.
T. T. Raghavachariyar, B.C.E.,	Sub-Engineer.	
T. Fitzgerald,	Supervisor.	
S. K. Govinda Rau,	Do.	
M. Arumanayakam Pillai,	Do.	Temporary.
Serjeant C. Coghlan,	Overseer.	
A. Srinivasa Sastri,	Do.	

Ramnad Division.

C. A. B. Target,	Executive Engineer.	
P. Murugesam Pillai,	Supervisor.	
S. K. Ramachandra Sastri,	Overseer.	

LIST OF SECONDED OFFICERS.

Name.	Rank.	Cause of Absence.	Date of Return.
Mr. J. W. Rundall ...	Superintending Engineer.	On 2 years' furlough.	28th July 1887.
Lt.-Col. C. Bowen, R.E. ...	Do. ...	On other duty ...	.....
Major A. C. Smith R.E. ...	Executive Engineer.	On 1 year 1 mt. 14 ds. furlough.	March 1888.
Major D. McNeil Campbell.	Do. ...	On 1 year 2 ms. 17 ds. furlough.	May 1888.
Lt.-Col. S. C. Clarke, R.E.	Do. ...	On 15 months' furlough	1st December 1887.
Major R. R. E. Drake-Brockman, R.E.	Do. ...	On 1 year & 275 days' furlough.	21st March 1888.
W. Hughes.	Do. ...	On 5 months' furlough.	8th July 1887.
Mr. J. M. Bell	Do. ...	On 1 year 10 ms. 9 ds. furlough.	17th June 1887.
Captain C. Kensington ...	Do. ...	On 1 year & 321 days' furlough.	3rd June 1887.
Captain A. F. Dorward ...	Do. ...	On field service ...	.....
Mr. C. H. T. Norfor ...	Do. ...	On 2 years' furlough.	30th November 1887.
Mr. J. D. Grant	Do. ...	Do. ...	.....
Captain C. C. Rawson ...	Do. ...	On 2 years' furlough.	4th May 1888.
Captain A. W. Smart, R.E.	Do. ...	On 1 year & 138 days' furlough.	9th December 1887.
Mr. J. Traill	Do. ...	On 6 ms. special leave.	18th July 1887.
Mr. C. J. Ussher	Do. Sub. *pro tem.*	On 1¾ years' furlough.	9th October 1887.
Mr. B. H. Young	Assistant Engineer.	On 15 months' furlough	1st July 1887.
Mr. W. Jopp	Do. ...	Do. do.	1st July 1887.
Mr. A. B. Todd	Do. ...	On 2 years' furlough.	24th August 1887.
Mr. H. H. O'Connell ...	Do. ...	On 1⅓ year's furlough.	October 1888.
Mr. G. B. Lambert ...	Do. ...	On 20 months' furlough	28th November 1887.
N. Ratnasabhapati Pillai ...	Do. ...	On 1 year's furlough.	28th December 1887.
J. W. H. Ellis	Sub-Engineer ...	On other duty ...	.....
Mr. E. Haldwell	Do. ...	Do.	.....
E. Taylor	Supervisor ...	Do.	.....
U. N. Joyce	Do. ...	Do.	.....
Muhamad Jafar Husain Sahib.	Overseer ...	Do.	.....

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26TH APRIL 1887, No. 1146 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers:—

From G. H. D. WALKER, Esq., Officiating Under Secretary to the Government of India, Public Works Department (General), to the Governments of Madras, Bombay, Bengal, North-Western Provinces and Oudh, and Punjab; the Chief Commissioners, Central Provinces, Burma and Assam; the Resident at Hyderabad; the Agents to the Governor-General for Central India and Rajputana; dated Fort William, 5th February 1887, Nos. 283—293 G.

With reference to the call made in this office Nos. 107—17 G., and Nos. 131—39 G., dated respectively the 17th and 18th January 1887, for revised estimates of Engineer and Upper Subordinate establishments suited to present circumstances and to the grants at your disposal, I am directed to request that you will carefully estimate the work on which the establishment is expected to be employed with a reasonable margin for contingencies and frame your proposals accordingly. The comparison of establishment with work should be made in the manner described in the following paragraphs, and the result forwarded concurrently with your revised estimate of establishment to the Government of India.

2. It is observed that the strength of the Engineer and Upper Subordinate establishments, on which depends the number of divisions, mainly determines the cost of the establishment head "Construction" and the corresponding head "Executive" in the case of Irrigation works, which is the most costly item of establishment and the only one capable of much variation. As soon, therefore, as their strength is determined, it should be an easy matter to work out the total cost under each of the heads—

Direction,
Accounts,
Construction or Executive,

with the additional heads in the case of Irrigation establishment. It will be well that the complete establishment estimates, after revision, should be given in the same detail as in the form which accompanies the several budget estimates, and submitted with your reply.

3. Wherever the establishments for Buildings and Roads and Irrigation are separate, separate estimates for each must be prepared.

4. The work that is to be done by each establishment, estimated as above, should then be stated as follows, Buildings and Roads and Irrigation being separately worked out:—

Buildings and Roads revenue under the control of the establishment.
Irrigation revenue (direct only).
Repairs.
Original works.

When the above heads of Revenue and Expenditure are included in several budget estimates, all worked by the same establishment, the several items under each head from the several budgets must be separately shown.

5. In regard to Local Fund works the following instructions are to be observed:—

Where the Provincial establishment carries out Local and Provincial works indiscriminately as in the Provinces of Assam and Burma, the local works may be

included in the calculations of paragraph 4, but it should be stated what is the cost of any minor establishments which are not included in the estimate framed as in paragraph 2.

Where, as in the North-Western Provinces and Oudh, the Public Works establishment is, to a considerable extent, lent to the Local Boards, and its cost included in the Local Fund budget, no Local Fund outlay should be included in estimating the normal charge, nor, on the other hand, must such establishment be included in the estimate of paragraph 2, but in working out the strength of the grades, which are to be distributed between Provincial and Local, the men of the permanent establishment provided for Local may be included.

Where, as in Bombay, the Punjab, and Central Provinces, a percentage is charged for works done for the Local Boards by the Public Works establishment, and at the same time Local establishments exist, the amount may be included in the figures of outlay, paragraph 4, and the percentage allowed by local usage added in the calculations of paragraph 6.

Where, as in Madras and Bengal, the Local Fund establishments and works are wholly separate from the Provincial, no account whatever should be taken, either of the charge for Local works or establishment.

6. The normal cost of establishment should then be worked out from the sums obtained against the several heads of paragraph 4 by charging—

5 per cent. on Buildings and Roads revenue,
10 " on Irrigation revenue,
23 " on Works and Repairs,

and the total cost so obtained, as the normal cost of establishment for works, must be compared with the actual cost of the estimates framed, as in paragraph 2. If the latter is greatly in excess of the normal cost, the cause of the excess must be explained.

7. I am to add that, in framing their estimates of establishment now asked for, Local Governments should not be in any way influenced by considerations of the present strength. What is required is an estimate of establishment adapted to carry out economically a certain outlay on works under present rules and conditions, but, if possible, on a reduced strength. Whatever establishment under the proposals now to be made becomes supernumerary should be reported in submitting the estimate, and can be dealt with separately after the proposals, now called for, have been approved.

Telegram to the Government of India, dated 22nd February 1887, No. 529 W.

ORDER—dated 26th April 1887, No. 1146 W., Public Works.

Ordered that the Government of India be addressed.

(Here enter No. 1147 W., dated 26th April 1887.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. P. L. Pereira.
Spare Copies

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GENERAL.
ESTABLISHMENT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated April, 26th.

Recd. *Encl.*

G.O., 26th April 1887, No. 1146 W.

APRIL.

Madras Public Works Establishment

Ordered that the Government of India be addressed in reply to their call for revised estimates of the — framed with reference to a comparison of Establishment with Work.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following letter from Colonel R. C. B. PEMBERTON, R.E., Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 2nd September 1887, No. 1721 G. :—

I am directed to acknowledge receipt of your No. 1147 W., dated 26th April 1887, with which you submit the estimate of establishment considered to be necessary under present conditions as to Work and Grants, for the Madras Public Works Department, together with the statement comparing this estimated cost with the cost brought out by charging Works and Revenue with the established percentage charge, as called for in this office No. 283 G., dated 5th February 1887.

2. It is observed that the total estimate of establishment amounts to Rs. 21,09,608 which is Rs. 4,13,740 in excess of the cost brought out by charging the establishment percentage on Works and Revenue. In regard to this excess it is stated in paragraph 3 of your letter under reply that the Madras Government is not influenced by considerations of present strength in maintaining so large an establishment, that this is shown by the fact of the estimate being $3\frac{1}{2}$ lakhs less than that of the year 1886-87, and that His Excellency the Governor is satisfied that no further reductions can be made; that the estimate is approximately the same as that sanctioned in 1881 as the normal cost of establishment in Madras, and that the necessity for this establishment has been repeatedly insisted on in the voluminous correspondence referred to by you, and practically admitted by the Government of India.

3. In regard to this explanation I am to observe that the reduction in this estimate as compared with that of the previous year is almost entirely in temporary establishment, for which a grant of Rs. 3,00,000 was provided in the year 1886-87; and that this temporary establishment was entertained principally for works for which special grants had been provided up to the end of that year, that is to say for the tanks and for drawing up new projects. Such reductions, I am to remark, are necessary in times of restricted outlay, and in no way indicate one way or the other whether the permanent establishment is moderate or not. In regard to the comparison drawn with the establishment sanctioned in 1881, I am to observe that the correspondence referred to, so far as this Government is concerned, had regard almost entirely to the question of the scale of Engineering establishment; and the Government of India is fully prepared under this head to admit that, so far as circumstances remain as represented in that correspondence, establishment of this class should not be reduced. As, however, the estimate submitted is so largely in excess of that which, according to the usual standard, is considered sufficient, it has been found necessary to examine carefully the present circumstances of the Engineering establishment and to analyse the estimate under other heads in order to suggest for the consideration of the Madras Government the direction in which reductions may possibly be made.

4. In regard to the Engineering establishment it is observed that the original number, 81 Executive and Assistant Engineers, is still maintained; but by comparing in detail the present divisions with those of 1881 it is observed that, while three

new divisions, the Godávari central, the Nílgiris, and Presidency Workshop have been formed, six, as shown in the margin, have dropped out. If the number of Engineers provided for the new divisions and those dropped out be allowed for, there should have been a net reduction of eight officers. The projects included under each of the A to D Project divisions are enumerated in Madras letter No. 1697 W., dated 9th July 1881, and it should be explained whether or no provision is still included for those or similar projects under other divisions, and if so, how far there is any likelihood of funds being provided for these projects in the next five years.

Salem division.	B Project division.
A Project division.	C " "
Sangam project.	D " "

5. Under upper sub-establishment it is observed that the original number of 185 is maintained, whereas allowing for the difference between new and old divisions as in the preceding paragraph, the numbers should have been reduced by ten men. I am to request that this matter may be similarly explained. Further I am to point out that the staff of upper subordinates is on a much larger scale than that allowed in any other province, the average for each division being seven in Madras against two in the North-West Provinces and five in Bombay. In some divisions, it would seem, there can be no question that the number is very large: thus there are two with 12 upper subordinates, one with 11, three with 9, four with 8, and so on. On the other hand the number of lower subordinates is very small as compared with provinces of the Bengal Presidency. The attention of the Madras Government is invited to this matter, and it is requested that the necessity for this large staff of upper subordinates may be explained, and that it may be stated why the less expensive agency of lower subordinates should not to some extent be substituted as in Upper India. Such a substitution could be made by degrees without any sudden reduction. In drawing attention to this matter I am to observe that this question does not appear to have been raised in the previous correspondence; it was observed by the Madras Government in its No. 2277 W., dated 1st October 1880, paragraph 40, that "the number (of upper subordinates) which has been strictly decided on the known requirements of the several divisions calls for no remark"; and the number so recommended appears to have been accepted without further question: some further inquiry therefore, I am to say, seems at the present time necessary.

6. Strictly speaking the Government of India has no concern with the other classes of establishment included in the estimate (except the Accounts staff which is noted on below) unless their salaries exceed Rs. 250. But under present circumstances it is considered desirable to draw attention to an apparent excess in certain classes. An analysis of the office establishment comparing the present scale with that of 1881 and that previous to 1881, which is given in the appended statement, seems to show that there has been a general increase in this branch of establishment of late years, and also that the office establishment attached to divisions and sub-divisions is now on a very large scale in numbers and in cost. It is to the latter point that the Government of India would draw special attention. In addition to the large establishment provided for the several divisional offices it is observed that sub-divisional and detached offices have each their own establishment, and that even overseers are provided with clerks. Amongst the divisional offices that of the Presidency, the Godávari and Kistna, the Consulting Architect's, the Kurnool, and the several Workshops divisions all attract attention by their large office establishments. I am to suggest that the question of reducing these establishments might be taken up by the Madras Government, and that the necessity of detached offices and overseers' clerks outside the divisional and sub-divisional office establishments might be considered.

7. I am also to draw attention to the following remarks regarding the staff of accountants of the Madras Presidency and the clerical establishment of the Examiner's office. The number of accountants (58), including two temporary men for test audit work, sanctioned in Public Works Department letter No. 867 G, of 4th May 1887, was based on the requirements of 29 divisions including Coorg; as it appears that the number of divisions including Coorg has now been reduced to 27,

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a proportionate reduction in the staff should apparently be made and a revised scale submitted for sanction. In regard to the clerical establishment of the Examiner's office, I am to say that both number and cost appear excessive as compared with other provinces; moreover it is known that, under the special arrangements for 5th-grade accountants, the Madras Government has a larger number of accountants than allowed by rule, although at the same cost, and the extra men so obtained are almost wholly employed in the Examiner's office. Thus, instead of some 14 accountants, the Examiner's office has 27 or 28, which with the clerks bring up the strength of the establishment to the very high figure of at least 90 men. It is understood that one reason for collecting this very large establishment has been to reduce the accounts work in every possible way in the divisional offices and to throw it upon the Examiner; but it is observed that this has not tended to reduce the establishments in the divisional offices which, as pointed out in the preceding paragraph, are very large. I am to point out that, in the opinion of the Government of India, the establishment in the Examiner's office is susceptible of considerable reduction without practically impairing the efficiency of the office.

8. I am to request that an early reply may be given in regard to the questions raised in paragraphs 4 and 5 of this letter; and that the possibility of reduction in accordance with the suggestions of paragraphs 5 and 6 may be taken into serious consideration by the Madras Government, the result being in due course reported for information.

ENCLOSURE.

Table B.

—	PRIOR TO 1881.				SCALE OF 1881.				PRESENT SCALE.			
	No. of units.	No. of men.	Total cost.	Average per man.	No. of units.	No. of men.	Total cost.	Average per man.	No. of units.	No. of men.	Total cost.	Average per man.
Chief Engineers' offices ..	1	32	2,433	76	1	32	2,433	76	1	42	3,085	73
Joint Secretary's office ..	1	27	1,180	44	1	27	1,180	44	1	31	1,495	48
Superintending Engineers' offices.	3	33	1,240	38	6	73	2,631	37	6	84	4,161	50
Presidency Division office ..	1	8	273	34	1	16	485	30	1	17	555	32
Godávari and Kistna office ..	1	16	546	34	1	20	646	32	1	23	751	33
Consulting Architect's office.	1	6	270	45	1	6	270	45	1	11	503	46
Public Works Store's office.	1	9	305	34	1	9	305	34	1	9	465	52
First-class divisional offices.	6	48	1,638	34	7	63	2,086	33	8	72	2,384	33
Second-class divisional offices.	8	64	2,024	32	9	72	2,277	32	8	66	2,111	32
Third-class divisional offices.	2	16	441	28	5	40	1,102	28	3	25	686	27
Sub-divisional office ..	40	80	1,240	15	50	100	1,550	15	66	132	2,072	16
Detached Officers' offices ..	40	40	700	18	88	88	2,200	25	75	75	1,875	25
Overseers' offices	..	..	..	..	92	92	1,610	17	92	92	1,610	17
Examiner's office clerks ..	1	30	1,202	40	1	36	1,522	42	1	63	2,245	35
Presidency Workshop office.	..	..	..	..	..	..	..	..	1	15	408	27
Kurnool division	..	..	..	..	..	..	..	..	1	13	437	33
Nilgiri	..	..	..	..	..	..	..	..	1	9	509	56
Dowlaishweram Workshop office.	..	..	..	..	..	..	..	..	1	17	251	15

ORDER—dated 4th October 1887, No. 2610 W., Public Works.

The Government of India will be addressed in reply to paragraphs 4 to 6 of the foregoing letter.

2. Meanwhile Superintending Engineers will report on the following points:—

(1) Whether it would be practicable to substitute a certain proportion of lower for upper subordinates, and if so, to what extent the substitution should be carried out in each division of the several circles.

(2) Whether any reductions are feasible in existing sub-divisional establishments.

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(3) Whether it is necessary to provide detached officers and overseers with clerks. If it is considered necessary, the reasons for such conclusion should be stated.

3. The question as regards possible reductions in division office establishments has already been fully considered,—*vide* Proceedings, No. 988 W., dated 15th April 1886, and No. 751 W., dated 11th March 1887. Superintending Engineers will, however, continue to give the matter their careful attention, and will bring to the notice of the Government such reductions as may from time to time appear feasible.

4. The Chief Engineer for Irrigation will report on the subject of the latter part of paragraph 4.

5. Paragraph 7 of the letter from the Government of India will be referred to the Examiner, Public Works Accounts, for careful consideration and report.

(Here enter No. 2611 W., dated 4th October 1887).

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.

LETTER—to the Secretary to the Government of India, Public Works Department, dated Ootacamund, 4th October 1887, No. 2611 W.

I am directed to acknowledge the receipt of your letter, No. 1721 G., dated 2nd September 1887, relative to the estimate of establishment considered necessary for the Madras Public Works Department.

2. In reply to the observations in paragraph 4, I am directed to state that appendix A to this office letter, No. 1697 W., dated 9th July 1881, included thirty divisions, while appendix D to my No. 1147 W., dated 26th April 1887, shows twenty-seven divisions as now existing. The present number is therefore three less than that of 1881, but this reduction is more apparent than real as regards executive staff. Owing to the reduced grant for establishment allotted for 1887-88, it was found necessary at the close of 1886-87 to double up several divisions for purposes of office and accounts work, but with respect to construction some of the amalgamated divisions virtually remain two separate divisions. Thus, the Ganjam division includes the Rushikulya project, which is under a separate Executive Engineer, as well as the works on one large zemindari estate and several smaller ones, lately taken over from the Court of Wards; the Kistna Eastern division requires an additional Executive Engineer and an Assistant for charge of the important works in the recently closed Gudiváda division, and the Periyár division has just been opened. It may be said, therefore, that there are still thirty executive charges, while in addition there are four parties of the Tank Restoration Scheme, each of which requires an Executive or Assistant Engineer, and also the head office of the Scheme, to the charge of which an Executive Engineer has been posted in lieu of the Superintendent of Works formerly allowed. It will thus be seen that the requirements of the department, with respect to executive staff, have increased rather than decreased since 1881.

3. It may be argued that tank restoration being outside the ordinary work of the divisions, should be provided for by the appointment of temporary officers, but it is intimately connected with the work in the divisions. It is advisable to employ on it officers who are experienced in tank irrigation, and, as each river basin taken up by a Tank Restoration Survey party is taken out of the hands of the divisional officer and thus virtually reduces the extent of his charge, it allows of the employment of some of the general staff of the department on this work. The work moreover must take so many years to complete that it cannot be considered temporary.

4. With reference to the latter part of paragraph 4 of your letter, I am to state that a further report will be made regarding the projects formerly included in the late A to D Project divisions, but meanwhile I am to invite attention to this office letter, No. 1878 W., dated 26th July 1886, giving a brief retrospect of the work done by those divisions up to the time of their closure, and intimating what had been, and what was intended to be, done with respect to the several projects.

5. The point raised in the first sentence of your paragraph 5, relative to the upper subordinate establishment, appears to be sufficiently answered in my paragraph 2 above. If the number of executive divisions be taken as thirty instead of twenty-seven, the average number of subordinates in each division would be reduced to six. That the average is higher in Madras than in Bombay and the North-West Provinces can only be explained by once again recurring to the different conditions of this Presidency; the large area covered by executive charges, the scattered nature of the works, and consequent difficulty of supervision. The two divisions shown in appendix D to my letter of 26th April last, as having twelve subordinates each, are Coimbatore and Madura. The former is of very large area, and includes the old Salem division and the Barur project. The Madura division has a large staff at present because in it are going on the construction of the Vaigai bridge and the Cumbum-Gúdalúr road, two large Local Fund works, which have been handed over to the Public Works Department for execution. Each of these two divisions moreover has a party of the Tank Restoration Scheme working in it. Similarly, the Kurnool division, with eleven subordinates, includes the Kurnool canal and the old Kurnool division, as also a party of the Tank Restoration Scheme. It seems needless to go into further explanation, but the other divisions with nine and eight subordinates are all heavy divisions, covering large areas.

6. The question of substituting lower for upper subordinates will receive careful consideration, and will be reported on hereafter.

7. With regard to divisional office establishments, I am to state that the question of effecting economies therein has not been lost sight of by this Government. The matter was carefully gone into in the summer of 1886, in connection with letter from the Finance Committee, No. 1, dated 22nd March 1886. Again, at the close of the year 1886-87, when reduction became imperative owing to the reduced grant for establishment for 1887-88, careful inquiries were made as to the scale of office and inferior establishments necessary for divisions and sub-divisions. Beyond discharging all temporary establishments however, it was not found practicable to effect material economy. Indeed the general complaint was that the divisional offices were as a rule undermanned, and this Government are still receiving applications from various divisions for assistance in the shape of temporary hands. The heavy work entailed on divisional and sub-divisional office establishments is mainly due to the great mass of accounts which must be rendered monthly in obedience to rules laid down by the Government of India. The possibility of reducing clerical and accounts work has received the earnest attention of the Chief Engineer and of this Government, since the beginning of 1884, and numerous suggestions on the subject have been received from officers of the department. With regard to clerical work, several reforms have been effected by the introduction of printed forms, &c., but as regards accounts, the result of nearly every inquiry has been to show that the number of forms, vouchers, &c., cannot be reduced without lessening that amount of control over expenditure which is prescribed by standing orders of the Government of India. The monthly accounts of the majority of the divisions systematically reach the Examiner's office long after due date, and the constant excuse which Executive Engineers make is that their office establishments are too weak to cope satisfactorily with the work. That this subject has received earnest attention will be seen from this office letter, No. 2247 W., dated 12th September 1884, in reply to which the Government of India stated that steps should be taken to increase establishments to admit of punctuality being attained. This has been done in some cases, while in others extension of time for the submission of accounts has been allowed, but the Examiner still reports monthly that a large

number of the accounts are late. In connection with this subject, I am to forward for perusal copies of the proceedings marginally noted; and to state that the question continues to receive consideration. At the present time this Government are inquiring into a scheme submitted by a Superintending Engineer involving important changes in the system of compiling the monthly accounts, but though no great results are likely to be effected, so far as at present can be seen, some of the points which promise to reduce office work will probably before long form the subject of correspondence with the Government of India.

No. 721 W., dated 23rd March 1885.
„ 1560 W., „ 21st June 1886.

8. With regard to the necessity of allowing clerks for detached officers and overseers, I am to say that a further report will be made, but that without clerical aid it will be impossible for subordinates, most of whom have considerable distances to travel, to devote sufficient time to their field duties.

9. The subject of paragraph 7 of your letter will be referred to the Examiner, Public Works Accounts, for careful consideration, and the result will be reported in due course.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. J. Moses.
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GENERAL.
ESTABLISHMENT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated October, 4th.

Recd. *Encl.*

G.O., 4th Oct. 1887, Nos. 2610, 2611 W.

OCTOBER.

Madras Public Works Department

Submitting explanation relative to establishment charges in connection with the —.

1583.89/35

6TH FEBRUARY 1888, NOS. 415, 416 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers :—

From the	Superintending Engineer,	I Circle,	No.	323	G.L.	dated	30th	November 1887.
„	„ „	II „	„	270	G.L.	„	22nd	October „
„	„ „	III „	„	1598		„	7th	November „
„	„ „	IV „	„	437	E.W.	„	25th	October „
„	„ „	V „	„	3981		„	17th	December „
„	„ „	VI „	„	1359	T.J.	„	20th	October „
„	Consulting Architect to Government		„	1073		„	16th	November „

ABSTRACT.—Replying to questions relative to suggested reductions in the upper subordinate and clerical establishments of the Madras Public Works Department.

ORDER—dated 6th February 1888, No. 415 W., Public Works.

Ordered that the Government of India be addressed.

(Here enter No. 416 W., dated 6th February 1888.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

LETTER—to the Secretary to the Government of India, Public Works Department, dated Fort St. George, 6th February 1888, No. 416 W.

In my letter, No. 2611 W., dated 4th October 1887, replying to your No. 1721 G., dated 2nd September 1887, it was shown that the sanctioned strength of Executive Engineers and upper subordinates for the Madras Public Works Department was not in excess of requirements; that the question of effecting economies in divisional office establishments had already received careful consideration; that, so far from reductions being feasible, it was found that the accounts of many of the divisions were continually in arrears, and that without additional clerical aid improvement in this respect could not be effected.

2. I am now directed to submit the further reply promised on the following points.

(1) Whether it would be practicable to substitute, to some extent, lower for upper subordinates.
(2) Whether reductions are feasible in sub-divisional office establishments.
(3) Whether it is necessary to provide detached officers and overseers with clerks.

3. With respect to (1), I am to say that, after consulting administrative officers of the department, and after careful consideration of the question, this Government are of

opinion that, although some slight addition to the existing lower subordinate establishment may be desirable, it would not be advisable to reduce the number of upper subordinates by substituting for them a certain proportion of lower subordinates. The large area covered by most of the executive divisions, and the scattered nature of the works in this presidency, have already been referred to in my letter, No. 2611W., above quoted, and in previous correspondence. Upper subordinates here, as a rule, have large charges involving much responsibility and continual travelling, and this Government do not think it would be advisable or economical to transfer such duties to a lower class of officials.

4. With regard to (2), I am to state that the sanctioned office establishments of each sub-division is one clerk, 4th class, 3rd grade (Rs. 20—30) and one messenger on Rs. 6 per mensem, and that only in cases of proved necessity is additional clerical aid allowed. Without abolishing the sub-divisional office establishments altogether, it seems impossible to reduce them, and it must be considered, moreover, that the punctual submission of divisional accounts depends to a great extent on the proper preparation of the sub-divisional accounts.

5. With reference to (3), I am to state that administrative and executive officers of the department are unanimous in considering that it would be the reverse of economy to deprive detached officers and overseers of their clerks; and this Government, after reading the arguments brought forward, fully concur in that view. Upper subordinates are primarily appointed for field work, and it would not be possible for them to do such work efficiently, if they were required also to do their office work themselves; while, on the other hand, the office work can be done much better by clerks than by upper subordinates.

6. In conclusion, I am to express regret that this Government are unable to meet the views of the Government of India with respect to reducing the sanctioned permanent strength of the executive and clerical establishments of the Public Works Department of this presidency. That the sanctioned scales of engineer and upper subordinate establishments are not extravagant was clearly demonstrated to General Brownlow on his visit to Madras in February 1883. That officer, in his note of 15th February 1883, after admitting that he came to Madras with a very strong impression that the Public Works establishments of this presidency were unreasonably costly, went on to say: "After patient and prolonged inquiry on the spot, I am convinced that the Public Works establishment asked for by the Government of Madras is not unreasonable in amount; that it is employed on duties which cannot be discharged by any other set of officers in Government employ; that these duties are well and efficiently performed; and that, in consequence of this satisfactory performance, a very handsome return is secured by Government for its expenditure". With regard to clerical establishments, it has already been stated in paragraph 7 of this office letter, No. 2611 W., above quoted, that the question of effecting economies therein has not been lost sight of by this Government, and I am to say that, in the interests of Provincial funds, the subject will continue to receive consideration.

7. The information asked for in paragraph 4 of your letter, No. 1721 G., dated 2nd September 1887, with respect to the projects enumerated in this office letter, No. 1697 W., dated 9th July 1881, will be furnished separately.

8. The report of the Examiner, Public Works Accounts, on the accounts and clerical establishment of his office will be forwarded, on receipt, with the views of this Government.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. A. Aubert.
Spare Copies

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GENERAL.
ESTABLISHMENT.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated February, 6th.

Recd. *Encl.*

G.O., 6th Feb. 1888, Nos. 415, 416 W.

FEBRUARY.

Madras Public Works Establishment

The Government of India addressed with regard to certain suggestions made by that Government for effecting reductions in the cost of the —.

1583 84 / 37.

PROCEEDINGS OF THE BOARD OF REVENUE
(Revenue Settlement, Land Records and Agriculture).

J. Grose, Esq., m.a., C.S.

Read—the following letter from H. O'C. CARDOZO, Esq., Superintendent, Madras Survey, to the Secretary to the Commissioners of Land Revenue, dated Madras, 11th November 1887, No. 139 B:—

Abstract.—Forwarding a statement of areas of all the districts in the presidency.

Resolution—dated 11th February 1888, No. 64.

A statement showing the revised area of each district received from the Superintendent of Revenue Survey will be printed and communicated to all Collectors for information.

2. With reference to column 6 of the above statement representing the atlas sheet scale area of the districts which have not been surveyed or in which survey is in progress, Collectors are requested to ascertain, in communication with the Superintendent of Revenue Survey, the areas, as far as possible, under the different tenures of lands *viz.*, Government, inam and zemindari) shown in the statistical forms A and B. Full explanation of the cause of variations as compared with the areas furnished in the previous year should invariably be afforded when submitting the returns for the current year.

APPENDIX.

STATEMENT showing the area of each taluk in the Madras Presidency.

District.	Taluk or zemindari.	Revenue Survey Area.			Atlas sheet scale area.	Total.	Remarks.
		Ryotwari villages including minor inams, i.e., inam fields.	Inam villages.	Zemindaris.			
1	2	3	4	5	6	7	8
		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Ganjam ..	Goomsur taluk ..	474	30	..	1,092	1,596	
	Berhampore do. ..	448	47	..	..	495	
	Chicacole do. ..	225	187	..	..	412	
	Karakavalasa zemindari.	..	..	49	..	49	
	Korada zemindari ..	..	..	..	34	34	
	Ronabá do. ..	..	..	..	36	36	
	Chinna Kimedi do. ..	..	..	..	2,130	2,130	
	Bodagada do. ..	..	..	..	455	455	
	Dhárákót do. ..	..	..	..	132	132	
	Kailikót do. ..	..	..	..	213	213	
	Algada do. ..	..	..	..	294	294	
	Biridi do. ..	..	..	..	65	65	
	Pálór do. ..	..	..	22	..	22	
	Humma do. ..	..	..	8	..	8	
	Sirgada do. ..	..	..	..	30	30	
	Kurla estate	..	..	5	..	5	
	Pedda Kimedi zemindari.	..	..	..	592	592	
	Mohiri hills	..	..	..	28	28	
	Aska malukudari ..	..	..	14	..	14	
	Chikati zemindari ..	..	..	..	118	118	
	Surangi do. ..	..	..	..	119	119	
	Jarada estate	..	..	..	48	48	
	Jalantra do.	..	..	81	..	81	
	Budarasingi zemindari.	..	..	..	43	43	
	Baruva malukudari ..	..	..	9	..	9	
	Mandasa zemindari ..	..	..	130	..	130	
	Parlákimedi estate ..	300	..	..	672	972	
	Tarlá zemindari ..	..	..	54	..	54	
	Tekkali do. ..	..	..	172	..	172	
	Salt pans of Naupada.	12	..	..	..	12	
	Do. of Ganjam ..	1	..	..	..	1	
	Total ..	1,460	264	644	6,101	8,369	
Vizagapatam.	Párvatipur zemindari.	..	..	..	..	..	
	Pálkonda taluk ..	156	50	..	578	578	
	Sálúr zemindari ..	..	..	..	222	428	
	Gujapatinagar do. ..	..	..	..	198	198	
	Chipurupalle do. ..	..	..	..	348	348	
	Bimlipatam do. ..	..	..	..	547	547	
	Vizagapatam do. ..	..	..	..	218	218	
	Golgonda taluk ..	..	..	..	139	139	
	Sarvasiddhi do. ..	..	..	..	1,169	1,169	
	Jeypore zemindari ..	..	..	..	347	347	
	Panchipenta do. ..	..	..	..	9,546	9,546	
	Mádugula do. ..	..	..	..	615	615	
	Bobbili do. ..	..	..	..	997	997	
	Vizianagram do. ..	..	..	..	234	234	
	Srungavarapakota do.	..	..	..	263	263	
	Anakápalle do. ..	..	..	..	391	391	
	Viravilli do. ..	..	..	..	310	310	
	Uratla do. ..	..	..	..	527	527	
	Total ..	156	50	..	16,786	16,992	
Godávari.	Narsápur taluk ..	399	35	A 3	..	437	A. Nidavól zemindari.
	Bhímavaram do. ..	217	7	A 97	..	321	
	Tanuku do. ..	228	30	A 113	..	371	
	Ellore do. ..	345	104	..	..	726	
	Yernagudem do. ..	317	44	..	280	734	
	Rajahmundry do. ..	284	69	..	373	481	
	Peddápuram do. ..	643	3	..	128	1,073	B. Ducherti and Guditeru mittas.
	Rámachandrapuram do.	336	62	..	B 427	399	
	Amalápuram do. ..	336	170	..	..	506	
	Bhadráchalam do. ..	..	..	..	..	214	
	Rékapalle do. ..	..	..	..	214	697	
	Rampa division ..	..	..	..	697	820	
	Tuni do. ..	..	..	..	820	320	
	Pithápuram do. ..	..	..	192	320	192	

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Statement showing the area of each taluk in the Madras Presidency—*cont.*

District.	Taluk or zemindari.	Revenue Survey Area.			Atlas sheet scale area.	Total.	Remarks.
		Ryotwari villages including minor inams, i.e., inam fields.	Inam villages.	Zemindaris.			
1	2	3	4	5	6	7	8
		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Godávari —*cont.*	Coringa division ..	..	..	64	..	64	
	Cocanada do. ..	..	..	126	..	126	
	Gútála zemindari ..	..	..	..	373	373	
	Total ..	3,105	525	595	3,632	7,857	
Kistna ..	Palnád taluk ..	768	10	..	288	1,066	
	Vinukonda do. ..	587	56	..	..	643	
	Narsaraopet do. ..	636	76	..	..	712	
	Sattenapalle do. ..	674	40	..	..	714	
	Nandigáma do. ..	434	97	..	..	531	
	Bezváda do. ..	222	14	..	..	236	
	Guntúr do. ..	484	16	..	..	500	
	Bápatla do. ..	664	15	..	..	679	
	Répalle do. ..	619	25	..	..	644	
	Bandar do. ..	425	89	..	..	514	
	Gudiváda do. ..	546	49	..	..	595	
	Nuzvíd zemindari ..	..	..	..	694	694	
	Vissannapet division ..	..	..	..	324	324	
	Mallavaram zemindari.	..	..	..	135	135	
	Vallúr do. ..	..	..	..	56	56	
	Tsallapalle do. ..	..	..	..	192	192	
	Kurtivennu do. ..	..	..	..	32	32	Detached portions situated in the Nizam's Dominions.
	Munagala do. ..	..	..	..	100	100	
	Lingagiri do. ..	..	..	..	30	30	
	Total ..	6,059	487	..	1,851	8,397	
Kurnool ..	Márkápur taluk ..	1,054	63	..	..	1,117	
	Cumbum do. ..	967	89	..	..	1,056	
	Sirvel do. ..	613	..	..	..	613	
	Nandyál do. ..	835	19	..	..	854	
	Nandikótkur do. ..	1,309	13	..	..	1,322	
	Rámallakót do. ..	830	16	..	..	846	
	Pattikonda do. ..	1,115	19	..	..	1,134	
	Koilkuntla do. ..	568	4	..	..	572	
	Banganapalle Native State.	..	..	255	..	256	
	Total ..	7,291	223	255	..	7,769	
Bellary ..	Adóni taluk ..	778	59	..	..	837	
	Alúr do. ..	667	20	..	..	687	
	Bellary do. ..	..	..	..	838	838	
	Rayadrug do. ..	..	..	..	753	753	
	Hospet do. ..	..	..	..	421	421	
	Kúdligi do. ..	..	..	..	743	743	
	Harpanahalli taluk ..	..	..	..	631	631	
	Huvinahadgalli taluk ..	..	..	..	534	534	
	Sandúr territory ..	..	..	161	..	161	
	Total ..	1,445	79	161	3,920	5,605	
Anantapur	Gooty taluk ..	1,024	27	..	..	1,051	
	Tadpatri do. ..	625	16	..	..	641	
	Penukonda do. ..	804	43	..	..	647	
	Anantapur do. ..	..	..	..	789	789	
	Dharmavaram do. ..	..	..	..	1,226	1,226	
	Hindupur do. ..	..	..	..	481	481	
	Madakasira do. ..	..	..	..	439	439	
	Total ..	2,253	86	..	2,935	6,274	
Cuddapah.	Jammalamadugu taluk.	548	70	..	..	616	
	Proddatur do.	458	20	..	..	478	
	Badvél do.	700	55	..	..	755	
	Siddhavattam do.	587	19	..	..	606	
	Cuddapah do.	734	30	..	..	764	
	Pulivendla do.	680	21	..	..	701	
	Kadiri do.	1,126	32	..	..	1,158	
	Rayachóti do.	960	37	..	..	997	

Statement showing the area of each taluk in the Madras Presidency—*cont.*

District.	Taluk or zemindari.	Revenue Survey Area. Ryotwari villages including minor inams, *i.e.*, inam fields.	Inam villages.	Zemindaris.	Atlas sheet scale area.	Total.	Remarks.
1	2	3	4	5	6	7	8
		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Cuddapah. —*cont.*	Pullampet taluk ..	874	105	..	..	979	
	Vâyalpâd do. ..	799	32	..	..	831	
	Madanapalle do. ..	826	11	..	..	837	
	Total ..	8,290	432	..	..	8,722	
Nellore ..	Nellore taluk ..	548	90	..	..	638	
	Gúdúr do. ..	670	69	A 171	..	910	A. Venkatagiri zemindari.
	Rápúr do. ..	486	93	17	..	596	
	Atmakúr do. ..	551	47	B 42	..	640	B. Kálahasti zemindari.
	Udayagiri do. ..	407	47	B 417	..	871	
	Kávali do. ..	369	53	B 126	..	548	C. Kálahasti and Venkatagiri zemindaris.
	Kanigiri do. ..	404	36	C 574	..	1,014	
	Kandukúr do. ..	508	47	D 232	..	787	D. Kálahasti, Chundi and Mutyalapad zemindaris.
	Ongole do. ..	691	38	A 168	..	797	
	Darsi division ..	..	..	616	..	616	
	Podili do. ..	..	..	564	..	564	Venkatagiri zemindari.
	Venkatagiri do. ..	..	..	426	..	426	
	Pólúr do. ..	..	..	358	..	358	
	Total ..	4,534	520	3,711	..	8,765	
Chingleput.	Saidápet taluk ..	260	81	..	..	341	
	Ponnéri do. ..	253	94	..	..	347	
	Tiruvallúr do. ..	394	114	..	..	508	
	Conjeeveram do. ..	395	119	..	..	514	
	Chingleput do. ..	344	92	..	..	436	
	Madurántakam do. ..	479	217	..	..	696	
	Total ..	2,125	717	..	..	2,842	
Madras ..	Madras town ..	29	..	..	..	29	
	Total ..	29	..	..	..	29	
North Arcot.	Chandragiri taluk ..	373	35	A 140	..	548	A. Seven palaiyams known as Chandragiri Palagiri.
	Chittoor do. ..	505	13	B 275	..	793	B. Bangarupalaiyam (z) .. .. 160 sq. mls.
	Wálajápet do. ..	449	35	..	..	484	Gudipattipalaiyam (z) .. 33
	Arcot do. ..	416	16	..	..	432	Naraguntipalaiyam (z) .. 42
	Wandiwash do. ..	462	4	..	..	466	Tumbapalaiyam (z) 40
	Pólúr do. ..	443	..	..	..	443	Includes 0·28 square miles of shrotriem village.
	Vellore do. ..	452	3	..	..	455	Includes 0·50 square miles of two shrotriem villages.
	Guliyátam do. ..	446	..	..	..	446	
	Palmanér do. ..	425	14	..	..	439	
	Kálahasti zemindari ..	..	..	874	..	874	
	Kárvetnagar do. ..	..	..	943	..	943	
	Punganúr do. ..	..	..	648	..	648	
	Arni jaghire ..	..	..	180	..	180	
	Kangundi zemindari ..	..	..	346	..	346	
	Total ..	3,971	120	3,406	..	7,497	
South Arcot.	Tindivanam taluk.	804	12	..	..	816	
	Tiruvannámalai do.	913	7	A 13	..	933	A. Four mitta and three jaghire villages.
	Kallakurchi do.	857	9	B 2	..	868	B. Tirukkanganur palayapat.
	Tirukoilúr do.	542	18	C 9	..	569	C. Four mitta and one jaghire villages.
	Villupuram do.	493	13	D 2	..	508	D. One mitta village.
	Cuddalore do.	417	22	E 9	..	448	E. Three mitta villages.
	Chidambaram do.	397	5	..	..	402	
	Vriddháchalam do.	591	5	..	..	596	
	Total ..	5,014	91	35	..	5,140	

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Statement showing the area of each taluk in the Madras Presidency—*cont.*

District.	Taluk or zemindari.	Revenue Survey Area. Ryotwari villages including minor inams, *i.e.*, inam fields.	Inam villages.	Zemindaris.	Atlas sheet scale area.	Total.	Remarks.
1	2	3	4	5	6	7	8
		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Salem ..	Tirupatúr taluk ..	566	5	163	..	734	
	Krishnagiri do. ..	377	14	268	..	659	
	Hosúr do. ..	874	10	333	..	1,217	
	Dharmapuri do. ..	727	20	193	..	940	
	Uttankari do. ..	745	1	164	..	910	
	Atúr do. ..	795	1	45	..	841	
	Námakal do. ..	374	9	332	..	715	
	Tiruchengód do. ..	426	28	183	..	637	
	Salem do. ..	963	12	96	..	A 1,071	A. Inclusive of 146 square miles of Shevaroy hills.
	Total ..	6,847	100	1,777	..	7,724	
Coimbatore.	Kollegál taluk ..	1,036	40	..	..	1,076	
	Satyamangalam do. ..	1,185	..	..	..	1,185	
	Bhavani do. ..	715	..	..	..	715	
	Erode do. ..	598	..	..	..	598	
	Palladam do. ..	741	..	..	..	741	
	Coimbatore do. ..	794	10	..	..	804	
	Pollâchi do. ..	626	..	A 84	..	710	A. Seven palayapats.
	Udamalpet do. ..	537	..	B 46	..	583	B. Six do.
	Dhárápuram do. ..	836	..	..	..	836	
	Karúr do. ..	575	..	C 37	..	612	C. Andipatti palayapat.
	Total ..	7,643	50	167	..	7,860	
Nilgiri ..	Ootacamund settlement.	30	..	..	..	30	
	Coonoor settlement ..	11	..	..	..	11	
	Kótagiri do. ..	12	..	..	..	12	
	Cherankod amsham ..	41	..	..	..	41	
	Munanad do. ..	60	..	..	..	60	
	Nambalakod do. ..	139	..	..	..	139	
	Ouchterlony valley ..	40	..	..	..	40	
	Tódanád	316	..	..	..	316	
	Merkunád	93	..	..	..	93	
	Paranginád	114	..	..	..	114	
	Kundahs	101	..	..	..	101	
	Total ..	957	..	..	..	957	
Malabar ..	Chirakal taluk ..	..	..	..	648	648	
	Kóttayam do. ..	..	..	..	462	462	
	Kurumbranád do. ..	..	..	..	538	538	
	Wynsad do. ..	820	..	..	339	339	
	Calicut do. ..	..	..	..	811	811	
	Ernád do. ..	..	..	..	963	963	
	Walawanád do. ..	..	..	..	390	390	
	Ponáni do. ..	..	..	..	613	613	
	Pálghat do. ..	..	..	..			
	Total ..	820	..	..	4,764	5,584	
South Canara.	Coondapoor taluk ..	..	..	..	512	512	
	Udipi do. ..	..	..	..	787	787	
	Mangalore do. ..	..	..	..	620	620	
	Uppinangadi do. ..	..	..	..	951	951	
	Kásaragód do. ..	..	..	..	1,032	1,032	
	Total ..	..	..	..	3,902	3,902	
Trichinopoly.	Udayárpálaiyam taluk.	520	29	A 204	..	753	A. Udayárpálaiyam and Áriyalúr istimrars.
	Perambalúr do.	633	14	B 22	..	674	B. Áriyalúr istimrar. sq. mls.
	Musiri do.	671	12	C 79	..	762	C. Turaiyúr zemindari. 46 Kátuputúr mitta .. 10 Malaiyalapatti villages .. 23
	Trichinopoly do.	464	88	..	..	542	

Statement showing the area of each taluk in the Madras Presidency—*cont.*

District.	Taluk or zemindari.	Revenue Survey Area. Ryotwari villages including minor inams, i.e., inam fields.	Inam villages.	Zemindaris.	Atlas sheet scale area.	Total.	Remarks.
1	2	3	4	5	6	7	8
		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Trichinopoly—*cont.*	Kulitalai taluk ..	535	35	D 330	..	900	D. Marungapuri zemindari 177
	Pudukóta territory ..	..	..	..	1,101	1,101	Kailavúr zemindari. 153
	Total ..	2,818	178	635	1,101	4,732	
Tanjore ..	Shiyáli taluk ..	..	..	..	159	159	
	Máyavaram do. ..	..	..	..	272	272	
	Kumbakónam do. ..	..	..	..	314	314	
	Nannilam do. ..	..	..	..	279	279	
	Negapatam do. ..	..	..	..	239	239	
	Tiruturaipúndi do. ..	..	..	..	466	466	
	Mannárgudi do. ..	..	..	..	284	284	
	Tanjore do. ..	..	..	..	672	672	
	Patukóta do. ..	..	..	..	909	909	
	Karikal	..	..	..	60	60	French territory.
	Total ..	..	..	..	3,654	3,654	
Madura ..	Dindigul taluk ..	782	11	A 327	..	1,120	SQ. MLS. A. Kunnivádi (z) .. 215 Ammayanáyakanúr (z) 112
	Palni do. ..	659	..	B 274	..	933	B. Retayambádi mitta. 90 Ayakudi zemindari. 79 Odaiyankota do. .. 59 Mannbary do. .. 12 Vellir do. .. 34
	Madura do. ..	335	27	C 14	..	446	C. Siruvalai do. .. 3 Ammayanáyakanúr zemindari .. 4 Velliyakundam zemindari 6
	Melúr do. ..	469	15	..	..	484	Sivaganga zemindari .. 1
	Sivaganga zemindari ..	..	..	1,680	..	1,680	
	Ramnad do. ..	..	..	2,104	..	2,104	
	Periyakulam taluk ..	398	2	D 44 E 139	..	583	D. Erasakkanayakanur zemindari.
	Bodinayakanúr zemindari.	..	..	141	60	201	E. Hill tracts of Periyakulam taluk.
	Tevaram zemindari ..	..	..	21	15	36	
	Gandamanáyakanúr zemindari.	..	..	170	161	331	
	Tirumangalam taluk ..	416	37	F 49	..	502	F. Uttappanaikkanur and other small zemindaris.
	Doddappanayakanur zemindari.	..	..	..	29	29	
	Inam Simanuttu ..	..	..	..	12	12	
	Ehumalai zemindari ..	..	..	..	37	37	
	Inam Mela Tirumanikkam.	..	..	..	2	2	
	Inam Mallapuram ..	..	..	..	10	10	
	Sáptúr zemindari ..	..	..	..	113	113	
	Sandaiyur do. ..	..	..	..	19	19	
	Peraiyúr do. ..	..	..	..	16	16	
	Total ..	3,059	162	4,824	613	8,658	
Tinnevelly	Otapidáram taluk ..	318	56	A 689	..	1,061	A. Etaiyápuram zemindari and other small zemindaris and mitta villages.
	Sátúr do. ..	285	68	B 217	..	570	B. Etaiyápuram and other small zemindaris.
	Srivilliputur do. ..	389	15	C 70 D 113		585	C. Sátúr, Sivagiri zemindaris and other small zemindaris.
							D. Area of hills on the Travancore frontier.
	Sankaranainárkoil do.	285	78	E 244 D 110		717	E. Etaiyápuram and other small zemindaris.
	Tenkási do. ..	171	56	F 121 D 26		374	F. Chokkampatti and Uttumalai zemindaris and other small zemindaris.
	Ambásamudram do. ..	249	4	G 10 D 218		481	G. Five zemindari villages.

Statement showing the area of each taluk in the Madras Presidency—*cont.*

District.	Taluk or zemindari.	Revenue Survey Area. Ryotwari villages including minor inams, i.e., inam fields.	Inam villages.	Zemindaris.	Atlas sheet scale area.	Total.	Remarks.
1	2	3	4	5	6	7	8
		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
Tinnevelly—*(cont.)*	Nanganéri taluk ..	581	34	..	D 115	730	
	Tenkarai do. ..	519	23	..	..	542	
	Tinnevelly do. ..	286	39	H 2	..	327	H. Kurichikulam (Uttumalai zemindari).
	Total ..	3,021	371	1,353	582	5,387	

ABSTRACT.

Ganjam ..	....	1,460	264	544	6,101	8,369
Vizagapatam.	....	156	50	..	16,786	16,992
Godávari ..	....	3,105	525	595	3,632	7,857
Kistna ..	....	6,059	487	..	1,851	8,397
Kurnool ..	....	7,291	223	255	..	7,769
Bellary ..	....	1,445	79	161	3,920	5,605
Anantapur.	....	2,253	86	..	2,935	5,274
Cuddapah ..	....	8,290	432	..	..	8,722
Nellore ..	....	4,534	520	3,711	..	8,765
Chingleput.	....	2,125	717	..	..	2,842
Madras ..	....	29	..	..	..	29
North Arcot.	....	3,971	120	3,406	..	7,497
South Arcot.	....	5,014	91	35	..	5,140
Salem ..	....	5,847	100	1,777	..	7,724
Coimbatore.	....	7,643	50	167	..	7,860
Nilgiri ..	....	957	..	..	..	957
Malabar ..	....	820	..	..	4,764	5,584
South Canara.	....	..	..	..	3,902	3,902
Trichinopoly.	....	2,818	178	635	1,101	4,732
Tanjore ..	....	..	..	..	3,654	3,654
Madura ..	....	3,059	162	4,824	613	8,658
Tinnevelly.	....	3,081	371	1,353	582	5,387
	Grand Total ..	69,957	4,455	17,463	49,841	141,716

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To all Collectors.
„ the Superintendent, Madras Survey.
Copy to the Secretary to Government, Revenue Department.

Exd. A. Aubert.

REVENUE DEPARTMENT.

1888.

Board of Revenue

(Revenue Settlement, Land Records and Agriculture),

MADRAS.

Printed February th.

Proceedings, 11*th February* 1888, *No.* 64.

Communicating, with remarks, for information, a statement showing the revised area of each district received from the Superintendent of Revenue Survey.

No. 130 D.

1583 A9/41

Government of Madras.

PUBLIC WORKS DEPARTMENT,

Ootacamund, 5th May 1888.

OFFICE NOTE.

From W.

To C

This statement has been compiled from information supplied by Superintending Engineers in compliance with a requisition from the Government of India.

Please check the expenditure and afford such explanation as may be forthcoming to account for the difference between the present figures and those given with your Office Note 1191 dated 10th March 1888. It has not been

been overlooked that you give grants while Superintending Engineers show expenditure, but still the differences seem to require explanation -

(Sd) J.O.H. W

No. 415-6W dy 6-2-88
" 2610-11W " 4-10-8)
" 1146-47W " 26-4-8)

" 112) W dy 25-4-8)
" 873-4W " 22-3-8)
" 416 W " 10-2-8)
" 363-4W " 9-2-8)
" 529 W " 22-2-8)
" 415-16W " 6-2-88
" 2610-11W " 4-10-8)
" 1146-47W " 26-4-8)

(vide G.O. 1146-47W)
(for Appendices C & D)

No. 722 C.

1583-84/42

Government of Madras.

PUBLIC WORKS DEPARTMENT,

Chepâk, 20th Feby 1888.

OFFICE NOTE.

From

W

To

C

Will you please prepare, as soon as possible, the statement called for by the Govt. of India in para 4 of their letter No 305 G. dated 6th Feby 1888, a Copy of the letter in question, together with Copies of Appendices C & D, therein referred to, are attached for reference.

(2d) W.L.C.B
20-2-88

(2d) J.O.H. 20-2-88

20/2/88

(2d) W 20.2.88

1583 84/43.

17TH JANUARY 1885, No. 152 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following letter from A. B. SAMPSON, Esq., Under Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 5th January 1885, No. 24 G.:—

I am directed to request that you will, with the consent of His Excellency the Governor, give the Government of India detailed information as to the present system of officering sub-divisions in the Public Works Department in Madras.

2. The information might conveniently be arranged in columns—

1. Name of division.
2. Names of sub-divisions included in each division.
3. Approximate estimate of expenditure in sub-division during current year.
4. The class of officer by whom the sub-division is actually held.
5. An opinion as to the classes of officers by whom it might appropriately be held.
6. Any other remarks that may be called for.

ORDER—dated 17th January 1885, No. 152 W., Public Works.

Communicated to Superintending Engineers and the Consulting Architect to Government, who will supply, as soon as possible, the information required by the Government of India, which should be sent up in tabular form.

2. Reports from the I and II Circles should be especially expedited so as to allow for distance.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
„ Superintendent of Works, Tank Maintenance Scheme.
„ Examiner, Public Works Accounts.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated January, 17th.

Read. *Encl.*

G.O., 17th Jan. 1885, No. 152 W.

JANUARY.

Officering Sub-divisions in the Public Works Department]

Letter from the Government of India calling for detailed information as to the present system of —, communicated to Superintending Engineers and the Consulting Architect to Government with instructions.

1503 89
44

8TH APRIL 1885, No. 854 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ again—

G.O., dated 17th January 1885, No. 152 W., Public Works.

READ—also the following papers :—

From the Superintending Engineer, I Circle, dated 2nd February 1885.
" " " II " " 9th " " No. 368 G.I.
" " " III " " 10th " " " 2242.
" " " IV " " 9th " " " 60 E. W.
" " " V " " 16th " " " 4292.
" " " VI " " 11th " " " 1750 T.J.
" Consulting Architect to Government " 31st January " " 1594.
" Superintendent of Works, Tank Maintenance Schems, dated 28th January 1885,
Office note from the Examiner, Public Works Accounts, dated 21st March 1885, No. 946.
From the Superintending Engineer, V Circle, dated 25th March 1885, No. 4877.
" Consulting Architect to Government, " 25th " 1885, No. 1872
Telegram from Superintending Engineer, IV Circle, dated 25th March 1885.
" " II " " 25th " "
" " I " " 27th " "
" " III " " 30th " "

ORDER—dated 8th April 1885, No. 854 W., Public Works.

Ordered that the Government of India be addressed.

(Here enter No. 855 W., dated 8th April 1885.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated April, 8th.

Encl.

Read.

G.O., 8th April 1885, No. 854 W.

APRIL.

Officering Sub-divisions in the Madras Public Works Department

Ordered that the statement furnishing detailed information as to the present system of — be forwarded to the Government of India.

1583.84
45

STATEMENT showing the present and proposed system of officering sub-divisions.

Division.	Sub-division.	Approximate estimate of expenditure in sub-division during current year.	The class of officer by whom the sub-division is actually held.	The class of officer by whom it might appropriately be held.	Remarks.
1	2	3	4	5	6
		RS.			
Ganjam ..	1. Berhampore ..	36,096	Sub-Engineer ..	Upper Subordinate ..	..
	2. Chicacole ..	28,835	Assistant Engineer ..	Do. do. ..	..
	3. Kimedi ..	1,21,327	Do. do. ..	Assistant Engineer ..	..
Vizagapatam.	1. Vizagapatam ..	35,840	Executive Engineer in charge of division.	Upper Subordinate ..	..
	2. Vizianagrum ..	54,610	Overseer	Do. do. ..	..
Godávari Eastern.	1. Head Works ..	85,330	Anicut Superintendent.	Do. do. ..	..
	2. Quarry ..	1,77,176	Assistant Engineer ..	Assistant Engineer ..	..
	3. Northern ..	1,14,649	Do. do. ..	Do. do. ..	..
	4. Southern ..	1,13,269	Sub-Engineer ..	Do. do. ..	..
	5. Rajahmundry.	88,250	Supervisor	Upper Subordinate ..	..
	6. Dumagudiem ..	20,945	Do.	Do. do. ..	..
	7. Dowlaishweram Workshops.	1,50,000	Do.	Do. do. ..	..
Godávari Central.	1. Western ..	1,46,390	Assistant Engineer ..	Assistant Engineer ..	..
	2. Eastern ..	1,25,660	Overseer	Upper Subordinate ..	..
Godávari Western.	1. Eastern ..	1,48,860	Assistant Engineer ..	Assistant Engineer ..	..
	2. Western ..	85,900	Sub-Engineer ..	Do. do. ..	..
	3. Imperial tanks, river embankment.	10,000	Assistant Engineer ..	Upper Subordinate ..	..
Rushikulya ..	1. Russellkonda ..	9,000	Do. do. ..	Assistant Engineer ..	..
	2. Aska ..	1,54,600	Do. do. ..	Do. do. ..	..
Kistna Eastern	1. Headquarters ..	1,53,902	Do. do. ..	Do. do. ..	..
	2. Northern ..	80,000	Do. do. ..	Do. do. ..	..
	3. Southern ..	70,000	Do. do. ..	Do. do. ..	..
Kistna Western	1. Eastern ..	1,31,585	Do. do. ..	Do. do. ..	..
	2. Western ..	59,864	Do. do. ..	Do. do. ..	..
Gudivâda (temporary).	1. Cowtaram ..	84,000	Do. do. ..	Upper Subordinate ..	..
	2. Gudivâda ..	57,000	Sub-Engineer ..	Do. do. ..	..
Nellore ..	1. Gudûr ..	22,000	Supervisor	Assistant Engineer ..	..
	2. Kandukur ..	40,000	Sub-Engineer ..	Upper Subordinate ..	..
Sangum Project	1. Sangam ..	2,32,390	Assistant Engineer ..	Assistant Engineer ..	..
	2. Kanigiri ..	2,69,600	Do. do. ..	Upper Subordinate ..	..
Bellary ..	1. Headquarters.	30,150	Executive Engineer in charge of division.	Assistant Engineer ..	..
	2. Northern ..	1,04,950	Sub-Engineer ..	Upper Subordinate ..	..
	3. Southern ..	75,400	Do. ..	Do. do. ..	..
Cuddapah ..	1. Headquarters.	17,300	Executive Engineer in charge of division.	Do. do. ..	..
	2. Eastern ..	40,000	Supervisor	Do. do. ..	..
	3. Madanapalle ..	3,000	Do.	Do. do. ..	..
Kurnool ..	1. Headquarters.	8,015	Executive Engineer in charge of division.	Do. do. ..	..
	2. Cumbum ..	11,000	Supervisor	Do. do. ..	..
Kurnool Canal.	1. Upper ..	68,000	Sub-Engineer ..	Do. do. ..	..
	2. Central ..	52,000	Supervisor	Assistant Engineer ..	..
	3. Lower ..	67,000	Assistant Engineer ..	Do. do. ..	..
West Coast ..	1. South Canara.	24,531	Do. do. ..	Upper Subordinate ..	..
	2. Cannanore ..	40,491	Sub-Engineer ..	Do. do. ..	..
	3. Calicut ..	1,55,601	Supervisor	Upper Subordinate ..	..
Coimbatore ..	1. Coimbatore ..	61,410	Do.	Assistant Engineer ..	..
	2. Erode ..	59,980	Assistant Engineer ..	Do. do. ..	..
	3. Salem ..	28,520	Supervisor	Do. do. ..	..
North Arcot ..	1. Ranipett ..	60,000	Assistant Engineer ..	Upper Subordinate ..	..
	2. Arni ..	35,000	Supervisor		

Statement showing the present and proposed system of officering sub-divisions—*cont.*

Division.	Sub-division.	Approximate estimate of expenditure in sub-division during current year.	The class of officer by whom the sub-division is actually held.	The class of officer by whom it might appropriately be held.	Remarks.
1	2	3	4	5	6
		Rs.			
Nilgiris ..	1. North Ootacamund.	1,57,215	Sub-Engineer ..	Upper Subordinate ..	..
	2. South Ootacamund.	78,920	Supervisor	Do. do. ..	..
South Arcot ..	1. Headquarters ..	20,400	Executive Engineer in charge of division.	Do. do. ..	..
	2. Tindivanam ..	44,000	Sub-Engineer ..	Do. do. ..	..
	3. Chidambaram.	55,500	Assistant Engineer ..	Assistant Engineer ..	..
	4. Vriddhachallam	54,000	Do. do. ..	Do. do. ..	..
Chingleput ..	1. Tiruvallúr ..	85,000	Sub-Engineer ..	Do. do. ..	..
	2. Chingleput ..	41,500	Assistant Engineer ..	Do. do. ..	..
Buckingham Canal.	1. Northern ..	1,83,221	Do. do. ..	Do. do. ..	It has recently been decided to form a fourth sub-division which will be officered by an upper subordinate.
	2. Central ..	85,648	Executive Engineer ..	Upper Subordinate ..	
	3. Southern ..	98,608	Sub-Engineer ..	Do. do. ..	
Presidency ..	1. Madras ..	1,68,000	Assistant Engineer ..	Assistant Engineer ..	This officer has charge of the military works at the presidency. It is desirable that the post should be held by a Royal Engineer officer.
	2. ..	1,54,000	Do. do. ..	Do. do. ..	
	3. Bangalore ..	1,60,000	Supervisor	Upper Subordinate ..	
Trichinopoly ..	1. Headquarters ..	60,000	Executive Engineer in charge of division.	Do. do. ..	
	2. Lalgudi ..	50,000	Sub-Engineer ..	Do. do. ..	
	3. Musiri ..	20,000	Assistant Engineer ..	Assistant Engineer ..	
Tanjore ..	1. Headquarters ..	28,500	Executive Engineer in charge of division.	Upper Subordinate ..	..
	2. Tanjore ..	1,62,000	Assistant Engineer ..	Assistant Engineer ..	..
	3. Máyavaram ..	5,3000	Do. do. ..	Do. do. ..	..
Negapatam ..	1. Headquarters ..	55,373	Executive Engineer in charge of division.	Upper Subordinate ..	..
	2. Tiruturaipúndi.	46,704	Assistant Engineer ..	Assistant Engineer ..	..
	3. Mannárgudi ..	37,664	Do. do. ..	Do. do. ..	..
Madura ..	1. Headquarters ..	38,127	Executive Engineer in charge of division.	Upper Subordinate ..	..
	2. Dindigul ..	60,935	Assistant Engineer ..	Assistant Engineer ..	..
	3. Periyakulam ..	47,544	Supervisor	Upper Subordinate ..	..
Tinnevelly ..	1. Headquarters ..	82,118	Executive Engineer in charge of division.	Do. do. ..	..
	2. Shermadevi ..	50,866	Assistant Engineer ..	Assistant Engineer ..	..
	3. Tenkarai ..	88,725	Sub-Engineer ..	Do. do. ..	..
Consulting Architect.	No. 1	1,50,000	Do. ..	Upper Subordinate ..	..
	No. 2	1,50,000	Do. ..	Do. do. ..	..
No. I Tank ..	Nos. I and IV ..	..	Executive Engineer in charge of division.	Do. do. ..	..
	No. II ..	..	Assistant Engineer ..	Assistant Engineer ..	..
	No. III ..	..	Supervisor	Upper Subordinate ..	..
No. II Tank ..	No. I ..	..	Do.	Do. do. ..	..
	No. II ..	..	Sub-Engineer ..	Assistant Engineer ..	..

1583 84
1 pf.

8th April 1885, No. 855 W., Public Works.

PUBLIC WORKS DEPARTMENT.

General Establishment.

Letter—from

Colonel J. SHAW-STEWART, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

The SECRETARY to the GOVERNMENT of INDIA,
Public Works Department.

Sir,

In reply to your letter No. 24 G., dated 5th January 1885, I am directed to forward the accompanying statement furnishing the required detailed information as to the present system of officering sub-divisions in the Public Works Department in the Madras presidency.

I have the honor to be,
Sir,
Your most obedient servant,

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

Fort St. George,
8th April 1885.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated April, 8th.

Recd. *Encl.*

8th April 1885, No. 855 W.

APRIL.

Officering Sub-divisions in the Madras Public Works Department

Forwarding statement furnishing detailed information as to the present system of —.

Postponed sent to Madras
for 4 to 8 [illegible]

No. 757 G

Government of India
Public Works Department 1883-84
General. 97.

To

The Secretary to the Government of Madras
Public Works Department.

Calcutta the 28th March 1884

Sir,

I am directed to acknowledge receipt of your No. 416 W, dated 6th February, on the subject of the Madras Public Wks Establishment, and to say that a reply to this office No 305 G of the same date will be awaited.

I am also to request that in addition to the information to be supplied as requested in paragraphs 4 & 5 of that letter you will furnish a distributive statement shewing the number of sub-divisions in each Division or Executive charge, and how the proposed number of Executive Engineers, Assistant Engineers acting as such, and Upper Subordinates are distributed over the subdivisional charges; also approximately, as so far as can be done by reference to information in your possession, the area and expenditure of each subdivision. If Assistant Engineers or Upper Subordinates are not in charge of sub-divisions, it should be explained what their charges or general duties are.

I have &c.
(Signed) G. H. Walker
Under Secy to Govt of I.

* Put up with Circ. 1925 with W's 14-3-88

* 722 C & 20-2-88 put with Circ. 1925 W's 14-3-88

P.W. Circ 306

Recd 2.4.88

No. 1442 C of 4 April 1888

P.W.D.

1883-89
68

Deferred Telegram

To Supdg Engrs I to IV & VI Circles.

Please report approximately, area in Square miles of each sub division in Circle and expenditure in each for 1887-88.

Information urgently required.

Telegram despatched 4-4-88

4.4.88

Copies to S.E. I Circle & Corresp. Asst. with request that similar information may be furnished with respect to their Circles.

4/4

Cr

No. 855 W 4/8-4-85
" 854 W - 8-4-85
" 152 W - 17-1-85

Sixth Circle.

Statement shewing approximately ~~the~~ 583 sq miles area of each Sub-Division in the Circle and expenditure in each for 1887-88- Vide Chief Engr's Telegram dated 4th April/88.

Division	Sub. Division	Area in Square miles.	Expenditure in each sub. Dn in 1887-88.	Total expenditure in each Dn in 1887-88.
1	2	3	4	5.
			Rs	Rs.
I. Tachimopoly-	(1) Head Quarter	1,297	90,646	
	(2) Mooiri —	2,345	18,844	1,09,490
II Tanjore —	(1) Head Quarter	448	53,103	
	(2) Tanjore —	538	77,413	
	(3) Mayaveram	770	53,525	1,84,041
III Negapatam-	(1) Head Quarter-	239	48,398	
	(2) Tenetiraipundi	466	29,599	
	(3) Mannargudi	1,193	32,103	1,10,100
IV. Madura —	(1) Head Quarter	1,276	91,405	
	(2) Dindigul —	1,981	31,578	
	(3) Periyakanbam-	1,481	91,524	
	(4) Vaigai Bridge-	— —	1,20,759	3,35,266
V. Ramnad -	— — —	2,112	76,640	76,640
VI Tinnevelly -	(1) Head Quarter	2111	59,737	
	(2) Shermadevi	1,642	38,935	
	(3) Tenkaraai —	558	48,513	1,47,185
			Grand Total Rupees	9,62,722

Supt Engr's office &c
Trichinopoly
14th April 1888.
Rec'd 14th April

Supt Engr Trichy

J. W. Kennedy
Supt Engineer, Trichy.

From.

The Supt. Engineer
6 Circle.

To

The Chief Engineer
P. W. D.

Encls to
No 883J
Dated 14th April 1888.
Recd 14th

Statement shewing approximately the area of each sub-Division in the Circle and expenditure in each for the year 1887-88.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

15389

Trichinopoly 14th April 1888

No. 883J

From J. W. Rundall Esqr. M.I.C.E.

~~The~~ Superintending Engineer,
6th Circle.

To

The Chief Engineer
P. W. D.

Sir,

ENCLOSURES. / In forwarding herewith the statement showing the area of and expenditure on each Sub-Division of this Circle, I have the honor to state that the areas of minor zemindaries have not been deducted.

2. The expenditure shown is that on works only.

I have the honor to be
Sir
Your most obedient Servant.

J. W. Rundall
Supt. Engineer, &c

Comd Ps
Cm
Tol

From

The Supg Engineer
5th Circle
Trichinopoly

To, The Chief Engineer
P.W.D.
Madras

No 88 of

Dated 14th } April 1888
Recd 14th }

R 16-4-88

Enclosure one

Area & Expenditure on Each Sub Division in the Circle.

Forwarding the Statement showing the —

From

The Superintending Engr
— 5th Circle —

To,

The Chief Engineer
— P.W. Department —

Dated 20 } April 1888.
Received 21 }

No. 246.

Statement showing the area in Square miles and expenditure in 1887 — 88 in each Sub-Division in the 5th Circle —

Statement showing the approximate area in Square miles and expenditure in 1887-88 in each Sub. Division in the 5th Circle

Division	Sub. Division	Area in Square miles	Expenditure in 1887-88	Remarks.
Chingleput	Mamut	7	62367	
	Chingleput	1645	64716	
	Trivellore	1190	78320	
South Arcot	Head quarters	1017	47779	
	Lindivanam	2257	45500	
	Chidambaram	402	35123	
	Vriddhachalam	1464	24680	
North Arcot	Vellore	5731	112100	
	Ranipett	1645	39400	
Presidency	Madras as Civil Works			
	— do — Military — do —			
	Bangalore			

No 246

Forwarded to the Chief Engineer P.W.D with reference to his Memorandum No 1442C dated 4th April 1888. The particulars for the Presidency Division will follow.

Superintending Engineer's office
5th Circle
Chepauk 20th April 1888

A. Bristow Sub. Engineer
for Superintending Engineer
5th Circle

N° 99 S.E.

Bangalore
30th April 1888

1583/84
53

To

The Superintending Engineer
V Circle

Sir

With reference to yr Endt No 34 dy 6th Instant I have the honor to report that the approximate area and expenditure in each of the 3 Sub Divisions in the Division are as given below.

	Approximate area	Expenditure in 1887-88.
Military Works Sub Division	9¾ Sq: miles	100.343 ×
Civil Works Sub Division	20 Sq: miles	174.766
Bangalore Sub Division	13 Sq: miles	79.298 *

× * Exclusive of charges on account of Barrack Master's Repairs Compensation for quarters and house rent and Municipal taxes.

—

I have &c

(Sd) Rees Thompson Col RE
Executive Engineer
Presidency Division

Do

15/
1583/84

1583-84
54

No 438

Forwarded to the Chief Engineer –
Public works Department in continuation
of this office No 246 of 20 April 1888.

A Nicolas Sub Engineer
for Supt: Engineer
V Circle

23 May 188

From PWC No 4081

The Secrty: Engineer,
V Circle.

To

The Chief Engineer
P.W. Deptt

Dated 2nd }
Recd 2 } May 1888

Enclosure -

No 438

Area & expenditure of Sub Divisions in the Presidency Division — Gives the —

Superintending Engineer's Office, 4th Circle
Coimbatore 6th April 1888.

No 122
Duo
From,

1583 dy / 88

Colonel J. Beatty R.E.,
Superintending Engineer,
Fourth Circle,

To,

The Chief Engineer,
P.W. Department.

Sir,

In reply to your telegram of 4th instant, I have the honor to report that the following statement shows approximately the area and expenditure in each of the ten sub divisions of this circle:—

Names of the sub divisions	Area in Square miles	Outlay in 1887-88.
		Rs.
Nilgiri No I	30	144,500
Do No II	900	1,39,500
Coimbatore	3,600	66,000
Erode	2,900	36,700
Salem	5800	26,000
C. O.		4,12,700

Barur	2,000	45,900
Calicut	3,200	82,000
Canara (Mangalore &c)	4,000	14,000
Vayitri	900	1,63,000
Cannanore	1,600	23,000
Grand Total,	Rs.	7,40,600

I have the honor to be,
Sir,
Your most obedient servant,

L. Beatty. Colonel R.E.,
Superintending Engineer,
4th Circle.

1583 89/56

From
The Superintending
Engineer
Circle.

Dated 5/4/88

No. 122
Civil.

Public Buildings Office
Circle:—
Bellary the 5th
April 1888

Sir,

I have the honor to forward herewith the
statement of the 10 —— sub-divisions
under

Sd/ Commanding Officer
Circle

Architect Division

Statement Shewing the approximate area of each Sub-Division and the Expenditure in each for 1887-88

Sub-Division	Name of officer in charge	Approximate area in square miles	Expenditure in 1887-88	Remarks
East	Mr J. A Stephens Honorary Asst Engineer	7½	58,853	There are no other upper subordinates attached to these sub-Divisions besides those named.
West	Sergeant Cobnett R.E Supervisor	4	37,572	

Madras
6th April 1888

87/583-89

J Marjoribanks
Consulting Architect to Govt

P. W. D

Consulting Architect's Office,
1583 888
58 Chepauk, Madras,
6th April 1888

No. 24.

From J. W. Bracebridge Esq
The Consulting Architect
to the Government of Madras,

To
The Chief Engineer
Public Works Department
Madras

Sir,

Enclosure. 1 I have the honor to submit a Statement shewing the information required in your Memo No 1442-C dated the 4th April 1888.

I have the honor to be,
Sir,
Your most obedient Servant

J W Bracebridge
Consulting Architect to Govt

Public Works Department.

From

THE CONSULTING ARCHITECT

TO THE GOVERNMENT OF MADRAS,

To

The Chief Engineer
P. W. D.

No. 24

Dated 6th April 1888

Received 9-4-88

No. of Enclosures.

Subject.

Submitting a statement shewing the area of each Sub Division in the Consulting Architect's Division with expenditure for 1887-88.

Class | INDIAN TELEGRAPH. | Monthly Local No. 64

To Station | From Madras

Words.	Day.	Hour.	Minute.	Official Instruction
24	23	10	50	urgent

To (Person) Madras Work | From (Person) Dept Works Paruyar

158389/60

1 2 3 Expenditure for Year Ending 4 31 March 1888 Works 5 1.05.340 Cob and plast 6 20.083

7 1652 Cop 11/4/88

8 9 ×5 10 11 12 13 14

Recd. from L. N. At Hrs. Mts. By

Sent to L. N. At Hrs. Mts. By

Date Postmaster.

TRIPLICANE 23-4

Statement shewing area in Square miles of each Sub Division of the Cuddapah Dn and expenditure in each for 1887–88.

Division	Area in Square miles	Imperial Military			Imperial Civil works			Provincial			Irrigation			Grand Total
		original	Repairs	Total	original	Repairs	Total	original	Repairs	Total	original	Repairs	Total	
Cuddapah														
Cuddapah Sub Division	3104	"	"	"	"	64	64	64358	"	64358	7875	11600	19475	83897
Western Sub Division	1804	"	"	"	"	"	"	886	500	1386	113	7500	7613	8999
Madanapalle Sub Dn	3830	"	600	600	"	"	"	10048	500	10548	541	5500	6041	17189

15538 9/8

Submitted with reference to Chief Engrs deferred Telegram dt/20th April/88.

Superintg Engineers Office 3d Circle
Camp Vailpad
24 April 1888

In previous statement Cuddapah or Head quarters sub division was treated as one sub division with the Western sub division as there were only 2 authorized sub divisions in the division

H Smalley Colr RE
Superintending Engineer 3d Circle

To The Chief Engineer
P. W. Department
Madras

RATES OF CHARGE FOR INLAND TELEGRAMS.

The address (including name of Sender, and name and residence of Addressee) is transmitted free.

	First 8 words.	Each additional word.
Deferred Message ...	8 Annas	... 1 Anna.
Ordinary " ...	1 Rupee	... 2 Annas.
Urgent " ...	2 Rupees	... 4 Annas.

A group of 3, or less figures, is reckoned as one word.

No charge for delivery within a distance of 5 Miles.

1642C - 20-4-88

No 3847

From The Superintending Engineer
3rd Circle

To
The Chief Engineer
P W D
Madras.

Dated 24 April 1888.
Recd 26

Statement showing prea in square miles of each pub Division of Cuddapah Dn and expenditure in each for 1887-88.

Rule 141

6/5/88

Indian Telegraph- 1583-89/62

To Supt Engr 1st Circle - Dowlaishwaram

From Executive Engr Rushikulya Dn

15 April 1888.

your telegram 13 - Surada Sub Division no appreciable area expenditure Rupees 12,593.

No 479.

Submitted to the Chief Engineer Public Works Department for information with reference to para 2 of this office letter No 33 G.L. dated 13 April 1888.

with E

16 April 1888
Dr D 19/4/

C. Twall
Supt Engr 1st Circle.

ltr

Rcvd 3887

FROM G. J. Walch Esqr
THE SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO Sd
THE CHIEF ENGINEER
~~FOR IRRIGATION.~~
D.P.W.

DATED 16th
DESPATCHED 19th } April 1883
RECEIVED 22nd

No. 47 Gn

ENCLOSURES. —

SUBJECT.

Surada Sub Division

I informes that Rs 12.593 is the expenditure in-

D.S.O. V.
A-4/588

F C[illegible]

Class. D8 | INDIAN TELEGRAPH. | Local No.

1583 859/64 02832

To (Station) Tuticorin | From (Station) Bezvada

Words.	Day.	Hour.	Minute.	Official Instruction.
113/86	9	16	59	Defd

To (Person) Madras works

From (Person) Supty Engineer 2 Circle

your telegram 4th instant + Kistna Eastern division northern sub division area 1100 square miles expenditure 95000 + southern area 500 expenditure 81000 + Gudivada area 700 expenditure 142000 + western delta eastern sub division area 670 expenditure 136000 + western sub division area 650 expenditure 102000 + nellore division Kunduker sub-

Recd. from [illegible] L. N. | Sent to [illegible] L. N.
At [illegible] Hrs. [illegible] Mts., By | At [illegible] Hrs. [illegible] Mts., By

Date MADRAS 9-4-83 Telegraph Master.

F C[2]

INDIAN TELEGRAPH.

Local No.

Class.

From (Station)

To (Station)

Words.	Day.	Hour.	Minute.

Official Instructions.

To (Person)

From (Person)

15838/65

division area 4500 expenditure
26000 + sangam area 250
expenditure 202000 + head
quarters area 1327 expenditure
115000 + sudur area 2700
expenditure 17000 + all the
above areas include zemind=
ari land information not
yet received from the buckingham
canal division establishment
charges are not included
in the above figures.

Recd. from	L. N.	Sent to	L. N.
At Hrs.	Mts., By	At Hrs.	Mts., By

Date MADRAS 9-4-83

Telegraph Master.

D-2/5/88

0-2/7/88

Statement showing approximate area of & expenditure in 1887 88 in each Sub Division in the 1st Circle. Vide Chief Engineer's telegram, dated 4th April 1888.

Names of Divisions	Names of Sub-Divisions	Area in Square Miles	Expenditure during 1887 88	Remarks.
Ganjam	(Berhampur) Of Head Quarters S. Dn including Estates	1800	Rs. 70,000	* Urlam arada Chinakimidi
	Chicacole Sub Dn	461	20000	
	Parlakimidi Estate	615	50000	
Rushikulya	Avka Sub Dn including Estates	400	83129 ✓ 8037 ✓	✓ Project ✓ Estates. × Dharakot Bodagoda
	Russelkonda S. Dn	350	71,586	
	Surada do	×	×	No information is received from the Executive Engr for this Sub Dn
Vizagapatam	Vizagapatam Of Head Quarters S. Dn	2000	11,000	
	Vizianagram do	5000	25,000	
	Koraput do	11,000	43,000	
Godavari Eastern	Headworks S Dn	25	203,562	
	Delta Sub Dn	720	96,178	
	Rajahmundry do	1697	34,466	
	Dimagudem do	5	12,102	
Godavari Central	Ralli Sub Dn	320	120,000	
	Nagaram do	185	44,000	
Godavari Western	Eastern S. Dn	520	96,962	
	Western do	430	44,179	
	Tank & Embankment do	1620	17,018	

13th April 1888
Despd 14/4

C. Lewis
Superintending Engineer
1st Circle

Ab

Statement showing the approximate area of & expenditure in 1887-88 in each Sub division in the First Circle

No. 336 G.C.

FROM G. T. Walch Esqre 68

THE SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO

THE CHIEF ENGINEER D.S.W

FOR IRRIGATION.

DOWLAISHWERAM, 13th April 1888
Recd 14/4/

SIR,

With reference to your telegram, dated 4th April/88, I have the honor to submit herewith a Statement showing the approximate area of and expenditure in each Sub Division in this Circle during the year 1887-88.

2. The Executive Engineer Ganjam Division (now Rushikulya Dn) has not furnished any information for the Surada Sub Dn & he will be telegraphed to furnish the same which will be submitted to you on its receipt.

I have the honor to be
Sir,
Your Most Obedt. Servant

G. T. Walch
Superintending Engineer

+ North E— 19-4-88

OFC No 3664

FROM G. L. Walch Esqr
~~THE~~ SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO
THE CHIEF ENGINEER
~~FOR IRRIGATION.~~
D.P.W.

DATED 13th
DESPATCHED 14 } April 1888
RECEIVED 19.4.88

No. 33 G.L.

ENCLOSURES. 1.

Sub Division -

Submits a Statement Showing the approximate area of and expenditure in each - in the I Circle.

B. 18.1

6.4.88

F C²

Class. D S — INDIAN TELEGRAPH. — Local No 03512

To (Station) Triplicane — From (Station) Bezwada

Words.	Day.	Hour.	Minute.	Official Instruction.
44/1	11	12	56	dfd

To (Person) Madras Works — From (Person) Supdtg Engineer 2nd Circle

× C No 3352 date 12/4/88.

my ×telegram ninth instant Buckingham canal northern sub division length fifty miles fifty nine thousands is. Kapally fifty miles expenditure fifty five thousand publicat eighty miles expenditure ninety four thousand southern

Recd. from At ___ Hrs. ___ L.N. Mts., By ___ Sent to At ___ Hrs. ___ L.N. Mts., By ___

Date MADRAS 11-4-88 Telegraph Master.

F C²

Class.	INDIAN TELEGRAPH.	Local No
To (Station)	From (Station)	71

Words.	Day.	Hour.	Minute.	Official Instruction.

To (Person)

From (Person)

II

2 circle

1 seventy miles
2 expenditure sixty
3 thousand
4
5
6
7
8
9
10
11
12
13

Recd. from	L. N.	Sent to	L. N.
At Hrs.	Mts., By	At Hrs.	Mts., By

Date MADRAS 11-4-83 Telegraph Master

M. 10.1

6.2/5/88

C4

II Circle

R 12·4·88

№ 1583/1584 WP 31/57

6. 2/5/88

Area and expenditure supplied by Superintending Engineers.			Area taken from maps and expenditure supplied by the Examiner F. W. Accounts.		
Sub-Divisions.	Area	Expenditure	Divisions.	Area	Expenditure
Aska.	400.	91,166.			
Jupelkonda.	350.	71,586.			
Surada.	-	12,593	Purlakimedy		230,000.
	750	175,345			
Head Quarter or Berhampur.	1,800.	70,000.			
Chicacole.	461	20,000.			
Parlakimedi.	615	50,000.	Ganjam.		
	2,876	140,000.		8398.12.	140,500.
Head Quarter or Vizagapatam.	2,000.	11,000.			
Vizianagram.	5,000.	28,000.			
Jeraput.	11,000.	43,000.	Vizagapatam.		
	18,000.	82,000.		17,380.	82,800.
Headquarter.	25.	203,562.			
Delta.	720.	96,178.			
Rajahmundry.	16,97.	34,466.			
Damagudem.	5	12,102.	Godaveri Eastern.	3877.	195,992.
	2,447	346,308			
Kalli.	320.	120,000.			
Nagaram.	185.	44,000.	Godaveri - Central.		
	505	164,000		506.	193,720.
Eastern.	520.	96,962.			
Western.	430.	44,179.			
Bank & Embankment.	1620.	17,018.	Godavari. Western.		
	2,570	158,159		2965.	152,682.
Head Quarter or Northern.	1,100.	95,000			
Southern.	500.	81,000			
Gudavala.	700.	142,000.	Kistna - Eastern.		
	2,300	318,000		2951.	436,643.
Eastern.	670.	136,000.			
Western.	650.	102,000.	Kistna - Western.		
	1320.	238,000		4,972.	217,900.

Head Quarter	1327.	115,000			
Cudur.	2700.	17,000.			
Handukur.	4500.	26,000			
Sungam.	250	202,000.	Nellore.		
	8777	360,000		8739	349,110.
Southern,	70 Li. mile.	60,000.			
Palicat,	80 ...	94,000.			
Tenner or Pekapalli,	50 ...	55,000.			
Northern.	50 ...	59,000	Buckingham Canal.		
	250	268,000			306,134.
Northern	5948.	97,776.			
Southern or Cuantapur.	5103.	28,060.	Bellary.		
	11,051	125,836.		10,842	88,605.
Head Quarter or Cuddapah	3104	83,897.			
Kandalur or Western.	1804.	8,999.			
Madanapalli.	3830.	17,189.	Cuddapah.		
	8,738	110,085		8,738.	96,982.
Cumbum.	7533.	19,307.			
Canal Upper.	Li. mile 65.	35,500.			
Canal Central,	" 58.	35,756.			
Canal Lower.	" 67.	37,500.	Kurnool.		
	~~7,533~~ 190	128,063		7,533.	235,874.
Mangalore or South Canara	4,000.	14,000.			
Cannanore.	1,600.	23,000.			
Calicut.	3,200.	82,000.			
Vazitri.	900.	163,000.	West Coast.		
	9,700	282,000		9,667.	19,0079.

26

Coimbatore.	3,600.	66,000.			
Erode.	2,900.	36,700.			
Salem.	5,800.	26,000.			
Karur.	2,000.	45,900.	Coimbatore.	15,533.	133,880.
	14,300	174,600.			
№ I	30.	144,500.			
№ II.	900.	139,500.	Nilgiri.	957.	205,951
	930.	284,000			
Vellore	5,731.	112,100.			
Ranipett.	1,645.	39,400.	North Arcot.	7,503.	162,128.
	7,376	151,500			
Head Quarter.	1017.	47,779.			
Tindivanum.	2257.	45,500.			
Chidambaram.	402.	35,123.			
Vriddhachalem.	1464.	24,680.	South Arcot	4,873.	149,149
	5,140	153,082			
Head Quarter.	7	62,367.			
Tirunelveli.	1190	78,320.			
Chingleput.	1645.	64,716.			
	2,842.	205,403	Chingleput.	2,840.	249,213.
Madras, Military	9¾.	100,343.			
Madras Civil.	20	174,766.			
Bangalore.	13.	79,298.			
	42¾	354,407	Presidency.	—	317,190.
Head Quarter.	1297.	90,846.			
Mysore.	2345.	18,844.			
	3,642.	109,490	Trichinopoly.	3,642.	100,180.
Head Quarter.	448.	53,103.			
Tanjore.	538.	77,413.			
Mayaveram.	770.	53,525.			
	1,756	184,041	Tanjore.	1477.	188,650.

Head Quarter.	1276.	91,405.			
Vaigai Bridge.	–	120,759.			
Dindigul.	1,981.	31,578			
Periakulam.	1481.	91,524.	Madura.		
	4,738	335,266		6,289.	268,240.
Head Quarter.	239.	48,398			
Tiruturaipundi.	466.	29,599			
Manargudi	1193	32,103.	Negapatam.		
	1,898	110,100.		2,177.	92,903.
Head Quarter.	2,111.	59,737			
Tenkarai.	553.	48,513.			
Shermadevi.	1642.	38,935.	Tinnevelly		
	4306	147,185		5381.	144069.
Ramnad.	2112.	76,640.	Ramnad.	–	140,000.
Periyar.	–	105,340.	Periyar.	–	–
C.K. East	7½	58,853.	} Consulting Architect.	–	71,005.
C.K. West.	4	37,572			
	11½	96,425.			
	124,911¼.	53,83,275.		137241½	5109559.

Total

Note

The total area of the Presidency as given in Revenue Board Proceedings No 612 of 11 Feby 88 is 141,716 Sq miles, but this includes Zemindaries and unsurveyed areas.

K.S.

Annexure to letter to the Secy to the Govt of India No 1584 W 2/81-5-88

Statement of Divisional Grants and Estimated Revenue working up to Appendix C of Budget Estimate of the Madras Presidency for the year 1887-88.

77

Circles	No	Divisions	Works Grant. Imperial Military	Imperial Civil Works	Contribution from Local Funds	Major works (Irrigation)	Capital outlay on Irrigation works not classed as Productive	Provincial Civil Works	Irrigation Revenue Works Original Estimate	Irrigation Revenue Works Local	Civil Works Local	Revenue Direct: Imperial Military	Irrigation Revenue Works Original Estimate	Civil Works Original Estimate	Irrigation Revenue Works Provincial Estimate	Civil Works Local	Indirect Revenue: Irrigation Revenue Works Original Estimate	Irrigation Revenue Works Provincial Estimate	Remarks
					*														* Kurnool Cuddapah Project
	1	Ganjam	"	"	23,000	"	"	3,500	18,000	"	119,000	"	"	1,403	"	22	"	"	
	2	Vizagapatam	2,000	800	"	"	"	72,000	8,000	"	"	"	"	66	"	"	"	"	
I	3	Godavari Eastern	1,250	800	"	92,000	30,000	19,44[illegible]	39,500	13,000	"	"	59,914	2,793	1,564	"	16,70,000	13,000	
	4	Godavari Western	"	"	"	90,000	36,048	3,151	21,700	"	1,500	"	33,387	762	1,134	"			
	5	Godavari Central	"	"	"	60,000	1,15,920	"	27,800	"	"	"	4,947	76	996	"			
	6	Kistna Eastern	60	400	"	95,500	32,683	3,50[illegible]	15,300	40	"	"	20,117	2,556	2,65	"	10,22,000	7,8,000	
	7	Kistna Western	"	200	"	69,300	1,44,300	3,[illegible]	46,500	1,000	"	"	9,492	483	47	"	1,70,000	2,70,000	
II	8	Nellore	360	800	"	40,000	1,98,350	"	31,134	"	"	"	"	36	62,086	"	"	"	
	9	Buckingham Canal	"	"	75,000	"	"	2,5[illegible]	23,147	"	"	185	"	4,353	66	"	"	"	
	10	Bellary	41,429	2,529	"	"	"	68,8[illegible]	28,000	"	"	"	"	281	"	"	"	"	
	11	Cuddapah	600	200	"	"	"	31,0[illegible]	46,024	"	"	"	28,147	431	"	682	80,000	"	
III	12	Kurnool	650	200	"	1,28,000	"	1,39,[illegible]	"	"	"	2,437	"	6,809	"	"	"	"	
	13	Nilgiries	51329	700	"	"	"	12,1[illegible]	89,500	"	600	1,125	"	5,769	1,437	557	"	"	
	14	Coimbatore	6070	300	"	"	24,400	1,44,[illegible]	1,500	"	"	1,704	"	3,850	"	"	"	"	
IV	15	West Coast	43,786	800	"	"	"	82[illegible]	46,900	"	"	2,47	"	2,387	1,815	3,482	"	"	
	16	North Arcot	6,583	400	"	"	"	8[illegible]	14,335	6,640	"	"	"	15,225	1,786	93	"	"	
	17	South Arcot	174	200	"	"	"	1,61[illegible]	19,392	"	"	986	"	477	4,920	"	"	"	
	18	Chingleput	37,641	"	"	"	"	95,[illegible]	4,000	"	"	14,310	"	2,877	"	"	"	"	
V	19	Presidency and Bangalore	2,1,900	500	"	"	"	"	"	"	"	"	"	16,415	"	"	"	"	
	20	Presidency Workshops	"	"	"	"	"	11,[illegible]	75,000	1,000	"	2,056	"	838	2,705	181	"	"	
	21	Trichinopoly	12,480	200	"	59,100	7,830	3,[illegible]	75,500	8,460	"	"	4,447	935	667	235	5,50,000	23,50,000	
	22	Tanjore	400	800	"	38,000	"	8,[illegible]	42,500	3,788	"	"	233	385	1,004	1	"	"	
	23	Negapatam	165	450	"	"	"	42,[illegible]	1,05,000	1,20,000	"	"	"	928	284	24	"	"	
	24	Madura	240	400	"	"	"	6,[illegible]	"	"	1,40,000	"	"	53	"	"	"	"	
VI	25	Ramnad	"	"	"	15,780	9,700	69,[illegible]	1,11,117	"	"	"	736	1,417	1,178	160	1,20,000	80,000	
	26	Tinnevelly	250	1,075	"	"	"	"	"	"	"	"	"	6,309	"	"	"	"	
	27	Consulting Architect	"	1,600	"	"	"	1,7,[illegible]	"	"	"	"	"	17,966	"	"	"	"	
	28	Presidency Stores	"	"	"	"	"	"	3,63,[illegible]	"	"	"	"	"	"	"	"	"	
	29	Reserved by the Government	10,320	1,375	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
	30	Reserve at disposal of Commanding Officers	9,378	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
	31	Reserve at disposal of Director General of Post Offices	"	7,871	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
	32	Reserve at disposal of Director General of Telegraphs	"	6,000	"	"	"	"	2,49,203	"	"	"	"	"	"	"	"	"	
	33	Minor Irrigation Works	"	"	"	"	"	"	1,28,618	"	"	"	"	"	"	"	"	"	
	34	Adjustment on account of old Maintenance Charges	"	"	"	1,28,618	"	"											
		Total	4,62,600	27,000	2,05,000	6,47,262	8,88,291	10,07,[illegible]	13,82,174	1,34,528	2,61,000	25,000	1,62,000	98,000	62,275	6,000	36,12,000	29,05,000	

Note. With reference to para 4 of India's letter No 2305 dated 6th February 1885 it should be noted that the Godavada Division was not in existence in 87-88, and the Grant for the Periyar Project was sanctioned subsequently to the Budget for that year consequently the figures for the former cannot be given separately, and there are no figures relating to the latter to be entered either separately or otherwise.

Madras
9th March 1888

Major R.E.
Examiner Pub Works Accounts
Madras

Ans No. 56 4, 885

Statement showing the number of subdivisions in each division — Statement II

and the distribution of the staff. — 2

Division	Officer in charge	Sub Division	Officer in charge	Detailed Officer	Overseers	Remarks. 8)
Rushikulya	Executive Engineer	Aska	Assistant Engineer	10 ??	Three overseers.	
				one asst. Engineer (on special duty)		
		Russelkonda	Assistant Engineer	one Temply Sub. Engr.	one overseer one Temply. Overseer.	
		Surada				2 not yet formed.
Ganjam	Executive Engineer	Berhampore or Head Quarters	Ex. Engr. Sth Div.		Two overseers	
		Chicacole	Sub Engineer		one overseer	
		~~Bobbilipatam~~			~~two overseers~~	
		Parlakimedi	One Temply Sub. Engr.		Two Temply overseers.	
Vizagapatam	Executive Engineer	Vizagapatam	Overseer		Two Overseers.	
		Vizianagaram	Overseer			
		Koraput (Special Sub Division)	Assistant Engineer	One Supervisor	One overseer.	
Godavari Eastern	Executive Engineer	Headworks.	Overseer.			
		Delta	Assistant Engineer	one asst. Engineer (on special duty) one Supervisor	One overseer.	
		Rajahmundry.	One Supervisor		one overseer.	
		Dowlaiswaram	Executive Engineer (Temporary work)		one overseer.	
		Works-Shops.	Supervisor.			

Division	Officer in charge	Sub Division	Officer in charge	Detached Offices	Overseers	Remarks
Godavari Central	Assistant Engineer	Rallí	Sub Engineer	1	One Overseer	
		Nagaram	Assistant Engineer	1	Two Overseers.	
Godavari Western	Executive Engineer	Eastern	Assistant Engineer	Supervisor		
		Western	Supervisor	4	one overseer.	
		Tank & Embankment	Sub Engineer.	4	One Overseer. One Temp: Overseer.	
Kistna Eastern	Executive Engineer	Head quarters or Northern	Ex: Engineer of Division	One Sub: Engineer Two Supervisors	Two Overseers.	
		Southern	Assistant Engineer	One Supervisor	One Temp: Overseer	
		Gudivada	Assistant Engineer	One Supervisor	One overseer One Temp: Overseer.	
Kistna West	Executive Engineer	Eastern	Assistant Engineer	One Supervisor	Two overseers.	
		Western.	Assistant Engineer	One Supervisor	One Temp: Overseer	
Nellore	Executive Engineer (Temporary Rank)	Head Quarters	Ex: Engr of Division	One Supervisor	One overseer	
		Gudur.	Supervisor	4	One overseer	
		Kandukur.	Supervisor	4	Two Overseers.	
		Sangam	Assistant Engineer	Three Supervisors	One overseer.	

Division	Officer in charge.	Sub Division	Where employed	Detached Men	Overseers	Remarks
Buckingham Canal.	Executive Engineer	Southern	Sub Engineer		One Overseer	
		Pulicat	Sub Engineer	One Supervisor	One Temp. Overseer	
		Penner	Sub Engineer			
		Northern.	Assistant Engineer		One overseer.	
Bellary	Executive Engineer	Head Quarters	Executive Engr of Div.	One Sub Engineer		
		Northern	Supervisor	One Supervisor	One overseer	
		Southern	Sub Engineer		One overseer.	
Cuddapah	Executive Engineer	Head Quarters	Ex: Engr of Division		Three overseers.	
		Kandalur or Nealur	Temp. Supervisor			
		Madanapalli	Supervisor			
Kurnool	Executive Engineer (Temp. rank)	Cumbum	Supervisor	One Supervisor	Two Overseers.	
		Canal upper	Sub Engineer		One overseer	
		Canal Central	Asst: Engineer		One overseer One temp. Overseer.	
		Canal Lower	Temp. Asst: Engineer	One Supervisor	One Overseer.	

Division	Officer in charge	Sub. division	Officer in charge.	Detached Officers	Overseers	Remarks.
Tank Restn Scheme No III Party.	(Executive Engineer India dist.)	—	—	—	One overseer	
West Coast.	Executive Engineer	Mangalore or South Canara.	Sub Engineer		Two Temporary Overseers.	
		Cannanore	Supervisor		One Overseer	
		Calicut	Supervisor			
		Vayitri	Asst. Engineer		Two Overseers.	
					Two Overseers.	
Coimbatore	Executive Engineer	Coimbatore	Sub Engineer	One Supervisor	One Overseer.	
		Erode	Supervisor	Two Supervisors	One Overseer.	
		Salem	Executive Engineer (Temporary Rank)	One Supervisor	One Overseer.	
		Barur	Sub Engineer.	One Supervisor	One Overseer.	
Tank Restn Scheme No IV Party	Executive Engineer				Three temporary Overseers.	
Nilgiri	Executive Engineer	No. I.	Sub Engineer		Two Overseers.	
		No II	Supervisor			
North Arcot.	Executive Engineer	Vellore	Executive Engineer (Temporary Rank)	One Supervisor	Two Overseers. One temporary Overseer.	
		Ranipett	Acting Asst. Engineer		Three Overseers.	
Tank Restn Scheme No V Party.	Temporary Supervisor	-	-	-	One temporary Overseer.	
South Arcot	Executive Engineer	Head Quarters.	Sub Engineer	One Supervisor		
		Tindivanam.	Acting Asst. Engineer		Two Overseers.	
		Chidambaram.	Asst. Engineer		One Overseer.	
		Vriddhachalam.	Sub Engineer.		One Overseer.	

Divisions	Officers in charge	Sub-divisions	Officers in charge	Detailed Officers	Overseers	Remarks.
Chingleput	Executive Engineer	Head quarters	Superviser		One Temply Overseer	
		Tirivallur	Superviser	Two Superviors	One Overseer	
		Chingleput	Sub Engineer	One Superviser	One Overseer	
Tank Restn Scheme No II Party.	Hony: Asst Engr	-	-	-	Two temply Overseers	
Presidency and Bangalore.	Executive Engineer.	Madras, Military	Superviser	One Superviser		
		—do— Civil	Sub Engineer	One Superviser	One overseer	
		Bangalore.	Sub Engineer	-	One overseer	
Pres[y] workshops.	Executive Engineer.			One Hony. Asst. Engineer.		
Trichinopoly	Executive Engineer	Head Quarters	Ex: Engr of the Div[n]		Two Overseers	
		Musuri	Superviser		Two Overseers.	
Tanjore	Executive Engineer	Head Quarters	Sub Engineer		One overseer	
		Tanjore	Executive Engineer (Temply Rank)	One Superviser	One Overseer	
		Nagapatnam	Superviser	One Superviser	Two Overseers.	
Madura	Executive Engineer	Head Quarters	Ex: Engr of Division	One Superviser	One overseer	
		Vaigai Bridge	Executive Engineer (Temply Rank)	One Hony. Asst Engr One Asst: Engr (Computation)	One Overseer	
		Dindigul	Sub Engineer	Two Superviors	One overseer One temply overseer	
		Periakulam	Sub Engineer		Two Overseers.	
Tank Restn Scheme No I Party.	Executive Engineer.	-	-	-	One overseer. Two temply: overseers	
Negapatam	Executive Engineer	Head Quarters	Ex: Engr of Division	One Sub Engineer		
		Tiruturaipundi	Superviser		One Overseer.	
		Mannargudi	Asst: Engineer	Two Superviors.		

Division	Officer in charge	Sub divisions	Officer in charge	Detached Offices	Overseers.	
Tinnevelly	Executive Engineer	Head quarters	Ex: Engr of Divn	One Supervisor		
		Tenkarai	Hony asst: Engr		One Overseer	
		Sheranadevi	Sub Engineer	One Supervisor	Nine Overseers	
Ramnad.	Executive Engineer (Temp y: rank)	—	—	One Supervisor	One Overseer Nine temp y. Overseers	
Periyar Head Works Dvn	Executive Engineer			Two Assistant Engineers One Supervisor	One Overseer	
Second Division X						X Not yet formed.
Consg: Architect	Executive Engineer (India dist)			One Hony. Asst: Engr One Supervisor		

P.J.O

13

87

Abstract

		Total
Existing number of executive and Assistant Engineers in the Madras Establishment	81	
Two Officers from the Govt of India List	2	83
Number of Madras Officers actually employed in Divisions	56.	
" Officers of the Govt of India list	2.	
" Employed in the Secretariat	3	
" On leave	15	
" On other duty	7	83.
Sanctioned Number of Upper Subordinates		185
Number actually employed in Divisions	182	
On leave &c,	3	185
Sanctioned Number of Temporary Upper Subordinates		38 29
Number actually employed	29.	29

Statement of areas as furnished by Superintending Engineers.

Divisions.	Area. Square miles	Divisions.	Area. Square miles.
Rushikulya (excluding Jurada)	750.	West coast.	9,700.
Ganjam.	2,876.	Coimbatore.	14,300.
Vizagapatam.	1,800.	Nilgiri	930.
Godavari - Eastern.	2,447.	North Arcot.	7,376.
—·— Central.	505.	South Arcot.	5,140.
—·— Western.	2,570.	Chingleput.	2,842.
Kistna - Eastern.	2,300.	Presidency.	42¾.
—·— Western.	1,320.	Trichinopoly.	3,642.
Nellore.	8,777.	Tanjore.	1,756.
Buckingham Canal.	250 lin: miles	Madura.	4,738.
Bellary.	11,051.	Negapatam.	1,898.
Cuddapah.	8,738.	Tinnevelly.	4,306.
Kurnool.	7,533	Ramnad.	2,112.
Canal.	190 lin: miles	Consulting Architect.	1½.

Statement showing area & expenditure of P. W.
Sub divisions.

89

Division	Sub Divisions	Area in Square miles	Expenditure during 1887-88	Remarks.
Rushikulya	Aska	400	91,166	
	Russelkonda	350	71,586	
	Surada.	-	12,593	No appreciable area 175345-1
Ganjam	Head-quarters at Berhampore.	1800	70000	
	Chicacole	461	20,000	
	Parlakimedi	615	50000	140000
Vizagapatam	Head-quarters at Vizagapatam.	2,000	11,000	
	Vizianagaram	5,000	28,000	
	Koraput	11,000	43,000	82,000
Godavari Eastern.	Headworks	25	203,562	
	Delta	720	96178	
	Rajahmundry	1697	34,466	
	Dumagudem	5	12102	346305
Godavari Central	Ralli	320	120000	
	Nagaram	185	44,000	164000
Godavari Western.	Eastern	520	96962	
	Western	430	44179	
	Tank & Embankment	1620	17018.	158159
Kistna Eastern	Head Quarters at Nonconna	1100	95,000	
	Southern	500	81,000	
	Gudivada	700	142,000	318000
Kistna West.	Eastern	670	136,000	
	Western	650	102,000	238,000
Nellore.	Headquarter	1327	115,000	
	Gudur	2700	17,000	
	Kanduker	4500	26,000	
	Sangam	250	202,000	360000

Divisions	Sub-Divisions	Area in Square Miles	Expenditure during 1887-88	Remark.
Buckingham Canal.	Southern	70 Lin: miles	60,000	
	Pulicat	80 —"—	94,000	
	Pennar or Isakapalli	50 —"—	55,000	
	Northern	50 —"—	59,000	
Bellary	Head quarters			Recently formed.
	Northern	5948	97,776	
	Southern or Anantapur	5103	28,060	
Cuddapah	Head Quarters or Cuddapah	3107	53,897	
	Gandalur or Western	1802	8,999	
	Madanapalli	3830	1,189	
Kurnool	Cumbum	7533	19,307	
	Canal upper	Lin: miles 65	35,500	
	Canal Central	58	35,756	
	Canal Lower	67	37,500	
West Coast.	Mangalore & South Canara	4000	14,000	
	Cannanore	1600	23,000	
	Calicut	3200	82,000	
	Vayittri	900	163,000	
Coimbatore	Coimbatore	3600	66,000	
	Erode	2900	36,700	
	Salem	5800	26,000	
	Barur	2000	15,900	
Nilgiri	No. I	30	144,500	
	No. II.	900	139,500	
North Arcot.	Vellore	5731	172,100	
	Ranipett	1645	39,400	

Division	Sub-divisions	Area in Square miles	Expenditure during 1887-88	Remarks.
South Arcot.	Head quarters	1017	47,779	
	Tindivanum	2257	45,500	
	Chidambaram	402	35,723	
	Vriddhachalam	1462	24,680	153,882
Chingleput.	Head quarters	7	62,367	
	Tiruvallur	1190	78,320	
	Chingleput	1618	62,716	203,403
Presidency	Madras, Military.	9 3/4	1,00,343	
	Madras, Civil.	20	174,766	
	Bangalore	13	79,298	354,407
Trichinopoly	Head quarters	1297	90,646	
	Musiri	2345	18,844	109,490
Tanjore	Head Quarters	448	53,103	
	Tanjore	538	77,413	
	Mayaveram	770	53,525	184,041
Madura	Head Quarters	1276	91,405	
	Vaigai Bridge	—	120,759	
	Dindigul	1981	31,578	
	Periakulam	1481	91,524	335,266
Vegapatam	Head quarters	239	48,398	
	Tiruturaipondi	466	29,599	
	Manargudi	1193	32,103	110,100
Tinnevelly	Head quarters	2111	59,737	
	Tenkarai	583	48,573	
	Shermadevi	1642	38,935	147,185
Ramnad	—	2112	76,640	76,640
Periyar		—	105,340	105,340
Consulting Architect.	East:	7½	58,853	
	West.	4	37,572	96,425

No 1442 C dy 6.4.88
" 855 W dy 8.4.88
" 854 W dy 8.4.88
" 1528 dy 17.4.88
" 1658 W dy 21.4.88
" 1642 W dy 20.4.88

Urgent

(4)

EXAMINED
No. 1057
3 MAY 1888

No 130 D dy 5th May 1888

To

C

This statement has been compiled from information supplied by Supdg Engineers in compliance with a requisition from the Govt of India. Please check the expenditure and afford such explanation as may be forthcoming to account for the difference between the figures and those given with your office Note 1191 dy 10th March 1888. It has not been overlooked that you give grants, while Supdg Engineers show expenditure, but still the differences seem to require explanation.

21

No. 305 G.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

GENERAL.

To

THE SECRETARY TO THE GOVERNMENT OF MADRAS,
IN THE PUBLIC WORKS DEPARTMENT.

Fort William, February 6, 1888.

Sir,

I am directed to acknowledge the receipt of your No. 2611 W., dated 4th October, in which you reply to the several points raised in this Office No. 1721 G., dated 2nd September last, regarding the various branches of the Madras Public Works Establishment.

2. In reply, I am directed to state that the Government of India is fully aware that the administration of the Madras Presidency is mainly conducted on an economical system; and, speaking generally, if the Madras Government declare that they are unable to effect any suggested reduction, it would not be considered desirable to press the suggestion further. But in the present case it is thought that the suggestion made with regard to the reduction in the number of Upper Subordinates has not been fully apprehended. In your 5th paragraph it is urged that on account of the large area of executive charges and the scattered nature of the works a larger number of Subordinates is required than in other Provinces. But this does not meet the suggestion of the Government of India that the number of Upper Subordinates was too large and that of Lower Subordinates too small. The numbers of these two classes of Subordinates employed in Madras and in other Provinces are approximately as follows:—

	Madras.	Bengal.	North-Western Provinces.
Upper	185	114	94
Lower	30	155	249

From this statement it is evident that in Bengal and the North-Western Provinces Lower Subordinates do, to a considerable extent, take the place of Upper Subordinates, and it is considered that an attempt should be made to substitute the same agency in Madras. If it were known that Lower Subordinates would be more largely employed in Madras, it is believed that there would be no lack of suitable candidates.

3. I am to suggest therefore that, as an experiment, only one out of every three vacancies that occur may be filled up in the Upper Subordinate Establishment, and that the others may be filled by Lower Subordinates, this procedure being followed for a considerable time, until the present scale of Upper Subordinates is reduced to a scale allowing of not more than four on an average to each Division.

4. I am also to request that when replying to this reference you will forward a statement showing the Expenditure and Revenue in each of the 27 Divisions enumerated in Appendix D, which accompanied your No. 1147W., dated 26th April 1887.

P.W.C. No. 1359

The Expenditure and Revenue should work up to the same totals as in the first three columns of Appendix C, which accompanied your letter above quoted, and Direct and Indirect Revenue should be distinguished. Under the Ganjam Division, the Rushikulya Project should be shown distinct, and under the Kistna Eastern Division, the Gudivada Division, and Periyar works, which, in your letter under reply, you state form for the present separate charges, must be kept distinct.

5. I am also to request that a map may be submitted indicating the several charges in distinct colours and their approximate areas. Wherever two or more officers are employed in one Division, the nature of the distribution of their work should be stated, and if the work is divided territorially, the different areas allotted to each should be shown on the map.

6. The further reports promised regarding the possibility of reducing the clerical Establishment are awaited.

I have the honour to be,

SIR,

Your most obedient Servant,

R H Dawkins

Colonel, R.E.,
Secy. to the Govt. of India.

Documents accompanying.
Nil.

No. 722 C dy 20-2-

Government of India Central Printing Office.—No. 705 P. W. D.—7-2-58.—101.

All communications should be addressed to the Secretary.

No. 7079

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

GENERAL.

To

The Secretary to the Government of Madras
Public Works Department

Calcutta the 28th March 1888

Sir,

I am directed to acknowledge receipt of your No. 416 W dated 6th February on the subject of the Madras Public Works Establishment, and to say that a reply to this office No. 303 G of the same date will be awaited.

I am also to request that in addition to the information to be supplied as requested in paragraphs 4 and 5 of that letter you will furnish a distribution statement shewing the number of subdivisions in each Division or executive charge and how the proposed number of Executive Engineers, Assistant Engineers acting as such and Upper Subordinates are distributed over the sub-divisional charges, also approximately, and so far as can be done reference to information in your possession, the area and expenditure of each subdivision Assistant Engineer or Upper Subordinates are not in charge of subdivisions, it should be explained what

P.W.C. No. 300

what their charges or general duties are.

I have the honour to be,

Sir

Your most obedient servant,

G H Walters

Under Secy. to the Govt of India.

Rec'd 2nd April

No. P. 722 C dt: 20.2.88
" 130 D " 5.5.88
" 415-16 W. 6.2.88
" 2610-11 W. 4.10.87
" 1146-47 W. 26.6.87
" 1442 C. 4.6.88
" 228 W. 19.1.83.

P.W.C. 30.5.88

RECEIVED 20 FEB 1888 ENCLOSURES 3 P.W. ACCOUNTS

No. 722 C. 93

Government of Madras.

PUBLIC WORKS DEPARTMENT,

Chepâk, 20 February 1888.

OFFICE NOTE.

From W

To C

Will you please prepare as soon as possible, the Statement called for by the Govt. of India in para 4 of their letter No: 305 G. dt 6 Feby 1888, A copy of the letter in question, together with Copies of Appendices C & D, therein referred to, are attached for reference.

W.C.W.
20.2.88

W

Jole
27/2/88

P.T.O.

Statement of outlay on 1887-88 on Works and Repairs by Divisions as per books of the Examiner's Office, compared with the outlay by Divisions as shown on Statement forwarded by the Secretary to Government P.W. Department

No	Divisions	Outlay as per Statement forwarded to Government P.W. Department	Outlay as per Statement received with the Examiner's Office Memorandum	Difference More than Statement from Secretary to Government P.W. Department	Difference Less than Statement from Secretary to Government P.W. Department	Remarks
1	Rushikulya	-	175,343	-	175,343	The outlay against Rushikulya is included in the Ganjam Division during the year 1887-1888.
2	Ganjam	323,010	140,000	183,010	-	
3	Vizagapatam	97,593	82,000	15,593	-	
4	Godavery Western	136,315	158,159	-	21,844	
5	Godavery Central	194,748	164,000	30,748	-	
6	Godavery Eastern	217,015	346,308	-	129,293	
7	Kistna Eastern	-	318,000			Accounts not yet received
8	Kistna Western	234,614	238,000	-	3,386	
9	Nellore	304,926	360,000	-	55,074	
10	Buckingham Canal	345,357	268,000	77,357	-	
11	Bellary	124,528	125,836	-	1,308	
12	Cuddapah	102,999	110,085	-	7,086	
13	Kurnool	148,344	128,063	20,281	-	
14	West Coast	287,358	282,000	5,358	-	
15	Coimbatore	188,346	174,600	13,746	-	
16	Nilgiri	272,212	284,000	-	11,788	
17	North Arcot	151,491	151,500	-	9	
18	South Arcot	154,703	153,082	1,621	-	
19	Chingleput	216,959	205,403	11,556	-	
20	Presidency	396,304	354,407	41,897	-	
21	Trichinopoly	105,516	109,490	-	3,974	
22	Tanjore	189,862	184,041	5,821	-	
23	Madura	336,837	335,266	1,571	-	
24	Nagapatam	88,394	110,100	-	21,706	
25	Tinnevelly	143,355	147,185	-	3,830	
26	Hammaik	76,619	76,640	-	21	
27	Periyar Project	105,340	105,340	-	-	
28	Consulting Architect	96,325	96,425	-	2,200	

Madras
14th May 1888

Examiner of P.W. Accts. Madras

Major R.E.

J. K. No 1191 10.3.88 Enc: 1

Herewith the statement you require.

10/3 C 89. 10/3.

No 415-6 Way 6-2-88
" 2611 W - 4-10-87
" 1146-7 W - 26-4-87
" 686 C - 25-2-87
" 228 W - 29-1-83
1442 C 4.4.88
855 " 8.4.88
856
152 " 17.1.88

circ. 17-3-88

95 A. 1485 dt 14.5.88

Encl

To W.

Your office note No. 130 D. dated 5th. May 1888.

The accounts of this office not being kept by sub-divisions, it is not possible for me to check the figures given by you against each sub-division. I have however drawn up a statement showing the outlay by divisions according to the latest accounts rendered (viz for March) compared with the corresponding figures taken out of your statement, by adding all expenditure in the several sub-divisions of each division together. In most cases the differences appear to be such as might be expected, when an approximate statement, such as was most likely furnished by Supg. Engineers, is compared with figures taken from actual accounts rendered to a later date. Very large differences however occur in the following divisions, and these can only be explained by Supg. Engineers.

	Differences in excess or short as per accounts
Godavari Eastern	— 1,29,293 short
Nellore.....	— 55,074 short
Buckingham Canal	+ 97,351 excess
Presidency.....	+ 41,897 excess

The accounts of the Kistna Eastern

PWC No 4531

Division have not yet been received, hence actual outlay is not shown against this division.

2. The differences between the statement furnished with my office note No. 1191 dated 10th. March 1888 and the present statement are due to the differences between the Budget Estimates and between these again and actual outlay. It must be remembered that there are ten different budgets or account heads under which outlay has to be accounted for.

2453

C.

E.2

S.R.W. urgent

96

The copy of the road map prepared for the East of India showing divisions and Areas with wh we have to be furnished with reference to the contracted areas supplied by S. Engrs. There is a copy of the map in Madras with St. C. and I have one copy here. Both must be cancelled to avoid miscalls and two printed copies made. one for India and the other for office record.

I attach a Statement of revised areas. Please have the work put in hand at once, and a copy of the printed map sent to Ooty as soon as it is finished.

J [redacted] S
Pleaselake 9. V. 88
this in hand
Ooty. 10
11. V. 88

SAW 97

I have expedited the maps for India showing divisions and areas. The papers are ready for circulation and are only awaiting these.

K.S
18.V.88

J

Soon please

C.A.
21.6.88

CAW

I send herewith the corrected office copy of the map, which will serve for circulation.

The fair copy for India has just been received from the Printers too late for despatch by post

Shall send it on to
tomorrow - It must
go on a rather long
journey & preserve a
it. The pair can
be retained at
Army. from Shaw
wood — the pair
letter to India will
eventually be
distributed.

The L. branch
is turning out
work. Though repeated
remarked.

Cl

22-5-44

The engravings I presume
are not ready yet. They shd be
sent up when available.

Jn

17/5/44

Letter No 416W dated 6th Feb

Circ 3060 89

CAW

D.W. desires me to send this letter on to Ady at once, as the previous papers are under consideration there.

Please, under D.W.'s instructions, take a copy of the letter, & will proceed to collect the information required, at once - I am afraid we cannot give area & expenditure of sub-divisions without telegraphing to Supply Engrs - This we shall do today.

CH
4.4.88

O
4/4.

Asked Madras & Supplied information

Cam R B 16.III.55

100

Sheets the
Maps, Jan and
Comp, Showing
Circles and Divisions
with the area of
the Counties &c
worked out, as
accurately as
a Small Map
of 32 Miles to an
inch will admit
and the result stands
is 5408 Sq. Miles
which can only
be accepted as
an approximate
area —

Cmp
16/3/55

To D.W.

C. No. 2452 [illegible]

It will be seen from the second clause of para 4 of the G. of I. letter that they require the figures for Godavaree district - C does not these show them in his statement. The fact that Godavaree was not a separate division does not alter the case - there was a special Executive Engr in charge - who had separate territorial jurisdiction. Office note to C has been drafted accordingly.

K.S.
11.III.88

+ Ask to send his accounts through the Madras E in. & thereby C will have the figures for Godavaree.

To D.W.

This is quite true, but it is thought that C should

obtain the information from the Govt. if he has not got it in his own office. and to settle up the Statement in the regarded form.

A.S
16-III-88

It will take a long time to get the opinions from the Govt, and it is therefore better not to delay the disposal of the matter.

Accts
16.3.88

C. No 2452

To bd

V2

In letter to India No: 41 dated 6 Feby: 88. It was stated that although some slight addition to the existing lower Subordinate Establishment may be desirable, it would not be advisable to reduce the number of Upper Subordinates by substituting for them a certain proportion of lower Subordinates. The reasons for this opinion are given in para 3 of the letter. The Hon: Member does not apparently consider the reasons sufficient. The effect of according to para 3 of the Govt of India letter would be that the number of Upper Subordinates would be reduced from 185 to 27×4 = 108. the remaining 77 being lower Subordinates.

A.S
20-III-88.

C No 2452.

IV

If the letter as originally drafted, goes to the Govt of India, I do not think they will press the question any more. I have written a short note on the subject, which I think explains why we cannot replace overseers by Sub-overseers, but it does not seem necessary that the Govt of India should have those reasons in detail; they merely object to the proposition of bringing up upper subordinates; if we were to examine our sub-overseers, there would be no further objection I presume.

20.3.80

Shd go to Col Hastie

21/3/80

C No 2452 (13)

The College of Engineering does not recognize lower Subordinates or Sub-overseers, nor does it give instruction to any more, as such - Sub-overseers usually commence life as workmen or mistries, and have very little general education or knowledge of Engineering outside their own trade - The pay of Sub overseers is

1st grade 50 - 70
2nd " 35 - 45
3rd " 25 - 35

The appointments of Sub-overseers are never made by Supt.s Engrs. and if it is intended that they shall be the place of lower Subordinates overseers; it is absolutely necessary that they should be recruited from a different class from what at present,

It is one reason in every two persons that the recruitment in the lower grades, must be from a class who will eventually be fit for the higher posts - for example to the

PUBLIC WORKS DEPARTMENT.

E MADRAS GOVERNMENT.

the close of 1858 the Upper Subordinate
may remain the pres
the Depts. should have
the general education
for them & see that the
highest ranks among
Upper Subordinates; no
Asst Engr Sub-Engineer.
Engr may be said that the
men who pass out of
the College, with the first
Prize & appointments
as Sub-Overseers - they
may for a time; but the
Junior will be small, and
the result will be that
in a few
years, the class of men
in the Upper Subordinate
Service, will be little
inferior to what is required
with the long charge in the
Dept. It is absolutely
impossible to carry on such
extensive and complicated
if the charge of subordinates
is to be entrusted to men
who have not the general
education, knowledge of
Engineering, & administrative
ability which a longer course

SRW

1859

With reference to
C. No. 3060 now before
please note that the
reply to India is being
delayed pending receipt
of the information
from C.E. already called
for from Madras.
Please see that it is
quite complete before
sending it up, and
that no avoidable delay
occurs.

RS
7. 11. 58

C. Asst

Herewith Statement
showing distribution of the
Staff. As mentioned in
in correspondence, an Asst
Engineer made in entire-
ment - the cases of
Cuddapah are continuing
Shifting -

Rebellion are coming
in almost every direction
Executive Engineers
Accompanied Statements

PUBLIC WORKS DEPARTMENT.

E MADRAS GOVERNMENT.

To W

Submitted for information and for orders whether as regards detached officers their duties may be discontinued to the Govt of India as the general wish is expressed by Govt

K S
13-11-84

They are for the most part employed where new works are in progress, and the officer in charge of the Dn Division is usually the best judge of the number of Supervisors required, in proportion to the works in progress, or the Divisions likely to be.

Sec
14/11/84.

105

Dept.

With reference to G. of I. letter No 757 G dated 28-3-84, a Statement is submitted showing the number of Sub divisions in each division, & how the executive staff is distributed over the several Charges.

The abstract shows that the numbers work out to our sanctioned scales.

The Statement might perhaps be sent on to Govt with reference to the papers now there, & with intimation that a Statement showing area & expenditure of the subdivisions will follow.

Mem G. of I.

ask for an explanation
of the duties of Divn
& subordinate upon
charge of sub division.
In reply to this it seem
only possible to say
that the men are em-
ployed in the Super-
vision of buildings
& irrigation works.
It would be a waste
of valuable time to
give the exact duties
of each man em-
ployed in charge of sub-
division.

C.L.
11.4.88.

Level on the statement
as supplied.
The general duties of detail'd
Officers are similar to those
of Sub divisional Officers, except
as regards accounts - he must
get the exact duties of every
Officer in a particular district,
but I do not see of what use
the information could be

W.W. 11.4.88.

No. 106

The Statement
showing area & expen-
diture of P.W. Sub-
division has now
been completed, &
it is proposed to
send it on to
Ootacamund at
once.

The completed
all the information
asked for by
Govt.

Yes. send on
at once.
W.W.
25.4.88

C.L.
2.5.88.

The statement for Peria-
kulam Division came in only
today.

C.L.

C.M.W.
2.5.88

PUBLIC WORKS DEPARTMENT.

E MADRAS GOVERNMENT.

I & W

No 178

In compliance with the letter from India No 3054 d/ 6 Feby 88, the following information was furnished

(1) Statement showing Estimate Grants and Revenue in Each of the 27 divisions Enumerated in Appendix D of letter No. 1147 W d/ 26 April 1887

(2) Maps indicating the several charges and their approximate areas

And in accordance with the subsequent letter No. 7576 d/ 28 May 88 the following Statements have been drawn up

(3) Statement showing divisions and Subdivisions and distribution of staff

(4) Statement showing Area and Expenditure of Subdivisions

I have added a Comparative Statement

(5) Comparing (1) & (2) in the

(4) Estimate & Grants

The ~~Expenditure~~ in (1)

as given by the Examiner differs very much from that w^h (is) as given by Supty. Engrs:

The areas also vary considerably, but as regards these, the information supplied by Supty Engrs may perhaps be accepted in preference to that worked out in the office from imperfect data.

But the estimate of expenditure will apparently have to be reconsidered before being submitted to the Govt of India.

It would probably have been better to have called for the Examiner for all the information regarding Expenditure if he was not available in his own office he might have got it from divisional officers.

I suggest that the matter will perhaps be returned to us to ask Q to reconsider the figures?

K.S.
5.V.88.

1888 PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Letter from the Government of India (P.W. No. 305 Gd/ Feb. 6, 1888)

ORDERED that the following reply be sent to the Government of India.

(P.W. No. Wd/)

To,
The Secretary to the
Government of India
P.W. Dept.

Sir, I am directed to acknowledge the receipt of your letter No. 305 Gd/ 6th July 1888, and with reference to paras 1 to 3 to invite attention to my letter No. 4168 dated 6th Feb

I do not think I have to do. Reg the letter dt 6 Feb I have noted that it contains no new facts or arguments & we must take para 2 of 3 as saying that we have the most & letter under ref para 3 of saying we must be very careful to

1888 in which the question
of the substitution of lower,
for upper subordinate, agency
in divisions is dealt with.

2. In compliance with
paras 4 & 5, I am to forward
for the information of the
Government of India, the
accompanying statement showing
the expenditure and
revenue in each of the
27 divisions enumerated in
Appendix D to my letter
No 1147 W dated 26th April 1887
also a map indicating the
several charges in distinct
colours and their approximate
areas.

3. The expenditure on the
Anabikulya Project has been
shown distinct from that
of the Ganjam division
proper, as required in para

4 of your letter, but that
in Gudivada has been
incorporated in the accounts
of the Kistna Eastern Division
of which it for the present
forms a sub-division for
purposes of account, though
the charge is in other respects
an independent one. —
No figures are given for the
Seringar Project as the —
division was formed after
the budget for 1887-88 was
issued.

4. The officers in charge
of the Anabikulya and
Seringar have no work —
beyond that connected
with the projects, and no
territorial areas are
therefore assigned to them
in the map. The Executive
Engineer attached to

Gudivada has however a distinct territorial charge as delineated on the map and is directly responsible to the Supdg Engineer for all works included in his division, the approximate area of which is 548 square miles.

(× Note
This has been obtained by sizing the map. It is therefore only approximate.

WCR
17.3.88

17/3/88

Chc. 17-3-88

6 A.W. 110

A Copy of letter No: 1584 W/a/31-5-86 is herewith sent for the signature of W. and issue to India with copy of Map showing divisional charges and their approximate area which is at Coby

Please inform date of despatch so that spare copies may be sent to Sindia Offd - the map enclosed remarked Statement II.

Cr
S.A.W
4/6/88

S.T.O.

Map enclosed Statement II.

Saw

The letter to India, with its enclosures & memorial of Mr. Markham Stat. II has been despatched this day to Simla.

5.11.88

A.W. 4/

No. 1583 W (1) General
Extract

PUBLIC WORKS DEPARTMENT.

3P

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 31st August 1888

READ the following

Letter from the Government of India (H.E. No. 305 G dy Febry 6. 1888)
" do " " 757 G dy March 28 "

Ordered that the following reply be sent to the Government of India.

(H.E. No. 1584 W dy 31st August)

To, The Secretary to the
Government of India, P.W.D.

Sir,

I am directed to acknowledge the receipt of your letters of the 6th February and 28th March 1888, Nos. 305 G & 757 G respectively, and, with reference to paras 1 to 3 of the former letter, in which it is suggested that the number of upper subordinates in Madras

R.S.
circ. 17-3-88

should be reduced by the employment of a certain number of lower subordinates in their places. I am to invite attention to para 3 of my letter No 466 dated 6th February 1888 in which it was explained that the large area covered by most of the executive divisions of this Presidency and the scattered nature of the works rendered it inadvisable to reduce the number of upper subordinates employed, and that the executive charges which these officers are entrusted with, and the class of the latter, are such that they cannot be efficiently worked by the class of men who enter the lower subordinate grades.

2 The Govt of India will, it is hoped, be enabled to form a correct idea of the importance of these Executive charges by reference to the statements

of area and expenditure herewith forwarded in compliance with the request contained in your letters under reply

3 It may further be remarked that the College of Engineering does not prerequisite lower subordinate or sub-overseers, nor does it give instruction to any men as such. Sub-overseers usually commence life as workmen or masons, and have very little general education or knowledge of engineering outside their own trade; and the low scale of salary authorised for this class of subordinates as shewn below can scarcely be expected to offer such inducement to a better class of men. The pay of a Sub Overseer is

1st grade	Rs 50–70.
2d "	" 35–45
3d "	" 25–35

4 If the efficiency of the subordinate

subordinate classes of the Dept
is to be maintained, it is essential
that the recruitment in the lower
grades must be from a class
who by general education and
technical knowledge will
eventually be fit to rise to the
higher ranks. It may be said
that the men who pass out of
the College will be fond to
accept appointments as sub-overseers,
and this will no doubt be the
case for a time, but the imme-
diate saving will be small,
and the eventual result will
be that in a few years the
class of men in the upper
subordinate grades will be
distinctly inferior to what is
required.

5 His Excellency the Governor
in Council is thus decidedly
of opinion that, while lower
subordinates may with
advantage be more large

employed than at present,
they are wholly unfitted
for the large and responsible
charges now held by the
upper subordinates of the
Madras P.W. Department.
It may, however, be possible
to meet the wishes of the Govt.
of India by the employment
of lower subordinates to a
larger extent when the
necessity for increasing the
temporary establishment
arises, and the Chief Engineer
will be directed to keep
the matter in view, and to
refrain from proposing any
augmentation of the temporary
upper subordinate establishment
in cases where lower subor-
dinates can with advantage
be substituted.

6 The following statements

accompany this letter:—

(1) Statement of divisional grants and estimated revenue working up to Appendix C of the Budget Estimate for 1887-88.

(2) Map shewing divisional charges and their approximate area.

(3) Statement shewing the number of sub divisions in each division and the distributions of the staff

(4) Statement shewing the area and expenditure of each subdivision.

8 The information contained in statement (1) has been furnished by the Examiner P.W. Accounts, but that officer being unable to supply particulars of expenditure by subdivisions, Supdtg Engineers had to be

advantage be more largely

That clerk would
[illegible]
Received 23.4.88

6.70

referred to. And statement (4) has been compiled from the information furnished by those officers. The Examiner, to whom the statement was referred for verification, is unable to do more than indicate, what reconciling, the differences between the approximate figures furnished by Supdtg Engineers and those of the booked accounts of his office. As however, the Govt of India seem to desire only approximate figures for subdivisions, the information is sent on without further reference to Executive officers which would involve further considerable delay.

9. The "detached officers" shewn in statement (3) are for the most part employed

where new works are in
progress, and the officer in
charge of the Sub division
is unable to cope with the
work imposed on him,
in consequence of the number
of the works in progress, or
the distances between them.

advantage be more largely

Govt. of (1888) Madras.

PUBLIC WORKS.

Dated 31st March

Dated

Received 15/7/90

Rect. Encl.

G.O. 31st May 1888, No. 1573

Warrantee Cum Abstract

Estimate

30 deers
40 ½ cubic feet
30 collections