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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. / ~~B.P. No.~~	715-16 W	Press / Mis.
Dated	6-2-1888	~~197~~ .

To be folded or roughly handled

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. 1627 W., dated 9th July 1881, and it should be explained whether or no provision is still included for these 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 (53), 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,

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	72	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	25	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	1,538	24	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 offices ..	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
Nílgiri	..	..	..	..	..	..	..	..	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.

(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 Gunjam division includes the Rushikulya project, which is under a separate Executive Engineer, as well as the works on one huge 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 Gudivada division, and the Periyar 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 paragraph2 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

No. 721 W., dated 26th March 1885.
„ 1360 W., „ 21st June 1886.

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.

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.

GENERAL.
ESTABLISHMENT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated October, 4th.

Read. *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 —.

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.		Particulars.	Salary of Office.	Estimate for 1887-88.			Estimate for 1886-87.	Rem
1886-87.	1887-88.			Per Mensem.	Per Annum.	Total.		
			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	2,500				
		Military pay and allowances.	...	199				
40	40	Total, Assistant Engineers.	...	18,699	2,26,680	...	2,25,600	
91	91	Total, Engineer Establishment.	...	...	8,11,344	...	8,60,484	
		Deduct—						
		On account of absentees ...	50,000	...	...	(a)50,000	...	50,000
		Net Total, Engineer Establishment.	...	...	...	7,61,344	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. Ottaway 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.						
39	39	Overseers, 1st Grade ...	100	3,900				
28	28	Do. 2nd „ ...	80	2,240				
25	25	Do. 3rd „ ...	60	1,500				
		Military pay and allowances ...	...	650				
92	92	Total, Overseers ...	...	8,290	99,480	...	96,960	
		Carried over ...	...	...	...	...	...	

(a) Increased by Rs. 30,000.

GOVERNMENT OF MADRAS.

PART III—continued.

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

Number.		Particulars.	Salary of Office.	Estimate for 1887-88.			Estimate for 1886-87.	Remarks.
1886-87.	1887-88.			Per Mensem.	Per Annum.	Total.		
			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.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Workshop Establishment. (Presidency and Division-aroms).						
...	1	Foreman, Mechanics ...	130		130			
...	1	Do. Carpenter ...	45		45			
...	1	Fitter	45		45			
...	1	Foundry	40		40			
...	1	Smith	30		30			
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	2,416	...	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.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Lascars, Sweepers, &c.						
500	500	Lascars	6		3,000			
5	5	Sweepers	2 at 5 & 3 at 4		22			
1	...	Keeper of the Chepák 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. Ministry	18		18			
1	1	Do. dy.	15		15			
1	1	Do. dy.	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			
168	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.

Numbers. 1886-87	Numbers. 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 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		
1	1	Do. 2nd Grade.	10—15			12½		
3	3	Delta Superintendents ...		70		210		
5	5	Do. ...		55		275		
6	6	Do. ...		40		240		
18	18	Lascars		8		144		
18	18	Do.		7		126		
30	30	Do.		6		180		
27	27½	Do.		5		135		
112	112	Total, Water Regulation Establishment, Kistna District.	...			1517½		
		Navigation Establishment.						
3	3	Lock Superintendents ...		15		45		
8	8	Do. ...		12		96		
12	12	Do. ...		10		120		
15	15	Do. ...		8		120		
17	17	Do. ...		7		119		
24	24	Do. ...		6		144		
27	27	Do. ...		5		135		
2	2	Traffic Clerks		12		24		
1	1	Boat Clerk, 5th Class, 1st Grade.	15—20			17½		
109	109	Total, Navigation Establishment, Kistna Delta System.	...			820½		
		Pennér Anicut System.						
		Water Regulation Establishment.						
1	1	Delta Superintendent ...		70		70		
1	1	Anicut do. ...		60		60		
1	1	Clerk		15		15		
		Carried over ...						

GOVERNMENT OF MADRAS.

PART III—continued.

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

Numbers. 1886-87	Numbers. 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 Establisament, 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.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —cont.						
		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				

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 ...	...	80	...	...	...	
		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		
		Combatore District.						
1	1	Superintendent			5	5		
2	2	Lascars			2½	10		
3	3	Total, Water Regulation Establishment, Coimbatore District.	...			15		
		Madura District.						
1	1	Watchman			4	4		
1	1	Do.			3	3		
		Additional amount sanctioned.	...			111		
2	2	Total, Water Regulation Establishment, Madura District.	...			118		
		Tinjore 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		

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		
		Godâvari District.						
1	1	Lascar	9		9			
1	1	Do.	7		7			
2	2	Total, Water Regulation Establishment, Godâvari 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.		Particulars.	Salary of Office.	Estimate for 1887-88.			Estimate for 1886-87.	Remarks.
1886-87.	1887-88.			Per Mensem.	Per Annum.	Total.		
			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.						
		Godavari 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				
2	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.		Particulars.	Salary of Office.	Estimate for 1887-88.			Estimate for 1886-87.	Remarks.
1886-87.	1887-88.			Per Mensem.	Per Annum.	Total.		
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*concluded.*						
		Irrigation and Navigation Works for which separate Capital and Revenue Accounts are kept—*cont.*						
		Water Regulation Establishment—cont.						
		Tinnevelly 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, Tinnevelly 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.						
2	1	Superintendent	15	15				
2	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 Officer.	Estimate for 1887-88. Per Mensem.	Per Annum.	Total.	Estimate for 1886-87.	Remarks.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		Agricultural Works, River Conservancy Establishment—*cont.*						
		Tinnevelly District.						
1	1	Laser	7		7			
4	4	Lascars	2		8			
6	5	Total, River Conservancy Establishment, Tinnevelly District.	...		15			
		Conservancy Establishment, Kurnool Canal.						
3	3	Irrigation Superintendents	60,55&45		165			
4	4	Amint 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	...	Amint Superintendent ...	60—80	...				
...	1	Do. do. ...	60		60			
...	1	Delta do. ...	60		60			
1	1	Channel do. ...	40		40			
		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 Officer.	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			
1	1	Do. 2nd ,, 3rd ,,	100—120		110			
4	4	Clerks, 3rd ,, 2nd ,,	60—80		280			
5	5	Do. 3rd ,, 3rd ,,	50—60		275			
3	3	Do. 4th ,, 1st ,,	40—50		135			
3	3	Do. 4th ,, 2nd ,,	30—40		105			
3	3	Do. 4th ,, 3rd ,,	20—30		75			
1	1	Draftsman, Special ...	200—250		225			
1	1	Do. 1st Class ...	50—70		60			
3	3	Attenders	15,13&10		38			
1	1	Mochi	14		14			
1	1	Do.	12		12			
		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.						
		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		456			
1	1	Clerk, 2nd „ 3rd „ ...	100—120		110			
2	2	Clerks, 3rd „ 1st „ ...	80—100		180			
2	2	Do. 3rd „ 2nd „ ...	70— 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 Pleader			15			
1	1	Do. do.			12			
1	1	Mushi			12			
1	1	Duffadar			10			
1	1	Head Peon			8			
1	1	Messenger			8			
2	2	Messengers			14			
3	3	Lascars			21			
31	31	Total, Office Establishment for Chief Engineer for Irrigation.	...	1,495	17,940	...	17,940	

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			
6	6	Total for each office ...	...		693½			
			...		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	Total, Office Establishment, Presidency Division.	...		555½	6,666	...	6,666
		For Godavari 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.		Particulars.	Salary of Office.	Estimate for 1887-88.			Estimate for 1886-87.	Remarks.
1886-87.	1887-88.			Per Mensem.	Per Annum.	Total.		
			Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	...	...	
		EXECUTIVE BRANCH —*cont.*						
		Office Establishment —*cont.*						
		For Godavari 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				
1	1	Do.	...	6				
12	12	Total, Office Establishment, Godavari 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, 2nd Grade)	30—40	35				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 3rd ,, ...	20—30	25				
1	1	Messenger	...	7				
1	1	Do.	...	6				
11	11	Total, Office Establishment, Kistna Eastern Division.	...	343	4,170	...	4,170	
		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				
1	1	Do.	...	6				
9	8	Total for each office ...	...	294	...	...	...	
8	8			3				
72	72	Total for eight offices ...	...	2,354	28,008	...	28,008	

(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.

GOVERNMENT OF MADRAS.

PART III—continued.

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

Number.		Particulars.	Salary of Office.	Estimate for 1887-88.			Estimate for 1886-87.	Remarks.
1886-87.	1887-88.			Per Mensem.	Per Annum.	Total.		
			Rs.	Rs.	Rs.	Rs.	Rs.	
		EXECUTIVE BRANCH —*cont.*						
		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	7	14				
1	1	Messenger	6	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. (c)						(c) 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	

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	

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 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				
4	4	Clerks, 5th „ 1st „	15—20	70				
1	1	Clerk, 5th „ 2nd „	10—15	12½				
1	1	Draftsman, 1st Class ...	50—70	60				
1	1	Do. 2nd „ ...	35—50	42½				
4	4	Messengers	7	28				
15	15	Total, Office Establishment, Presidency Workshops.	...	408	4,896	...	4,896	
		For Public Works Workshops, Dowlaishweram.						
...	1	Clerk, 3rd Class, 2nd 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	3,015	...	...	
		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.	...	296½	3,543	...	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.	Per Annum.	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	Godâveri Eastern Division.	...	...	4,836	...	4,836	
11	11	Kistna Eastern Division ...	...	...	3,176	...	3,176	
85	85	Nine First-class Divisions including Kurnool.	...	...	30,856	...	5,3858	
58	66	Eight Second-class Divisions	...	...	21,696	...	22,302	
9	9	Nilgiri Division	...	...	6,108	...	6,108	
33	26	Three Third-class Divisions	...	...	4,908	...	10,884	
11	11	Consulting Architect to Government.	...	...	6,036	...	6,036	
9	9	Public Works Stores ...	...	...	3,680	...	5,580	
15	32	Public Works Workshops, Presidency and Dowlaishwaram.	...	...	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	
753	759		...	...	2,58,572	2,83,572	2,86,256	
		Temporary Establishment.	...	...	82,542	82,542	3,00,000	
		Local Allowances.						
		Upper Godâveri allowances	...	30	360	...	...	
		Mynaad allowances ...	...	...	4,000	...	...	
		Poroghy Ghât allowances.	...	...	7,200	...	...	
		Presidency house-rent ...	...	...	4,200	...	...	
		Do. allowance ...	...	...	9,000	...	...	
		Total, Local Allowances ...	...	...	25,360	25,360	31,740	
		Total Salaries ...	...	...	17,16,826	...	20,01,304	
		Travelling allowances ...	...	...	†1,81,796	2,49,000		

†Reduced by Rs. 56,204, being the share of travelling allowances on account of temporary establishment for which no provision is made.

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.
			Rs.	Rs.	Rs.	Rs.	Rs.	
		ACCOUNTS BRANCH —*cont.*						
		Menial Servants.						
...	1	Attendar	12	12				
...	1	Do.	10	10				
1	1	Mochi	12	12				
3	1	Do.	10	10				
1	1	Do.	8	8				
1	1	Attender	5	5				
2	1	Head Messenger	10	10				
1	1	Do.	8	8				
4	4	Messengers	7	28				
6	6	Do.	6	36				
2	2	Rollers	5	10				
18	20	Total, Menial Servants ...	...	149	...	...	...	
83	82	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	

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.	
		ACCOUNTS BRANCH —*cont.*						
		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	

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		...	1,08,000			
		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

APPENDIX D.

DISTRIBUTION RETURN

OF THE

EXECUTIVE ESTABLISHMENT, P.W.D.,

25TH APRIL 1887.

STATEMENT SHOWING ESTABLISHMENT SANCTIONED AND EXISTING.

Circle	Divisions.	Sanctioned. Executive Engineers.	Sanctioned. Assistant Engineers.	Sanctioned. Upper Subordinates.	Existing 25th April 1887. Executive Engineers.	Existing 25th April 1887. Assistant Engineers.	Existing 25th April 1887. Upper Subordinates.	Remarks.
I.	Ganjam	2	3	9	1	3	6	
	Vizagapatam	1	1	6	1	1	3	
	Godavari, 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	2	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	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	16	
	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.	

I CIRCLE.

C. 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.	

Godávari 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, A.C.E.,	Sub-Engineer.	
G. Venkataratu 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. Rajarama 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., A.C.E.,	Sub-Engineer.	
T. Subrahmanya Aiyar, B.A., B.C.E.,	Supervisor.	
Serjeant F. Humbly, R.E.,	Do.	
T. Ramanujam Pilla,	Do.	
Serjeant T. G. Blake,	Overseer.	
Mir Sadr-ud-din Sahib, A.C.E.,	Do.	
V. Gurgayya,	Do.	

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, A.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. Muthuvira Pillai,	Do.	
T. A. Monisse,	Do.	

IV CIRCLE.

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

Nilgiri Division.

(1. 0. 4.)

W. B. deWinton,	Executive Engineer.	
Sub-Conductor E. 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.* Going on furlough.
Colonel H. M. Vibart, R.E.,	Do. do.	

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. Lafrennis,	Do.	
J. C. Denneby,	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.	

Chinglepat 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.	

C. Velayudham Mudaliyar,	Supervisor.	
Sub-Conductor J. Kelly,	Do.	
K. Duraiswami Pillai,	Do.	
C. R. Chinnaswami Aiyangar, S.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. Ramaswami Mudaliyar,	Do.	
K. Viswanatha 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. H. 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. Usher	Do. Sub. pro tem.	On 1½ 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 1½ year's furlough.	October 1888.
Mr. G. B. Lambert ...	Do. ...	On 20 months' furlough	28th November 1887.
N. Ramasabhapati 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.	.....

25.

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 excluded.

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.

52

LETTER—to the Secretary to the Government of India, Public Works Department, dated Fort St. George, 26th April 1887, No. 1147 W.

With reference to my telegram of the 22nd February 1887, I am now directed to reply to your letter, Nos. 283—293 G., dated 5th idem.

2. The following statements are submitted for the information of the Government of India:—

(*a*) Estimate in budget form of the cost of the establishment of the Madras Public Works Department working up to a total of Rs. 21,09,608.

(*b*) Statement dividing the above total cost under the three heads Direction, Accounts and Construction.

(*c*) Statement showing the grant for Works and Repairs under the several service heads, the Buildings and Roads, and Irrigation revenue, and the normal cost of establishment obtained by charging—

5 per cent. on Buildings and Roads revenue.
10 per cent. on Direct Irrigation revenue.
6 per cent. on Indirect Irrigation revenue.
23 per cent. on Works and Repairs.

(*d*) Statement showing in detail the Public Works Circles and Divisions of this Presidency and the distribution therein of the Executive establishment of the Department.

3. In paragraphs 4 and 6 of your letter under reply, no mention is made of contribution to Establishment on account of Indirect revenue, and this is no doubt because your letter is a circular addressed to all Local Governments and Administrations; but this Government do not suppose that, so far as this Presidency is concerned, it is intended to exclude this important item. That the circumstances of this Presidency with respect to the system of collecting Irrigation revenue are widely different from those of other Provinces has already been prominently brought to the notice of, and has been admitted by, the Government of India; and in Colonel Trevor's letter, No. 191 A.G., dated 20th February 1882, a charge of 6 per cent. on the gross Indirect revenue due on Productive Irrigation and Navigation Works was allowed as a grant-in-aid from Imperial funds towards the cost of Provincial establishment. It was then admitted that this concession was made to afford substantial relief to Provincial revenues, and to place Madras in as favorable a position as other Provinces. The direct Irrigation revenue realised by the Public Works Department in this Presidency is so trifling in amount, that a contribution of 10 per cent. thereon, without any contribution on account of indirect revenue, would be scarcely worth taking credit for. In working out the cost of establishment as required by paragraph 6 of your letter under reply, credit has therefore been taken for 6 per cent. on indirect Irrigation revenue.

4. It will be seen from statement (C) that the cost of establishment thus worked out amounts to Rs. 16,95,868, whereas the estimated cost of the existing establishment amounts to Rs. 21,09,608.* The difference is Rs. 4,13,740, and, under paragraph 6 of your letter, an explanation of this excess is required. In your paragraph 7 it is remarked that in framing their estimates of establishments now asked for, Local Governments should not be in any way influenced by considerations of present strength. That this Government have not been influenced by such considerations will be apparent from a comparison between the budget estimate for establishment for the year 1886-87 and that for 1887-88. While the former amounted to Rs. 24,59,156, the latter amounts to Rs. 21,09,608, and the large reduction made at the end of the year 1886-87 will show that this Government have loyally responded to the requirements of the Government of India in the matter of effecting economy in establishment. It is needless to remark that so large a reduction could not have been made without considerable inconvenience and dislocation of working arrangements, and His Excellency the Governor in Council is satisfied that further reduction is impossible. The estimate of establishment now submitted, Rs. 21,09,608, is approximate to the amount, Rs. 20,64,000, sanctioned by the Government of India in your office letter, No. 1250 G., dated 23rd September 1881, as the normal cost of establishment for Madras. The peculiar circumstances and great size of this Presidency, the scattered nature of its

works, and its needs with respect to Public Works establishment have already been exhaustively explained to the Government of India in the correspondence ending with your letter, No. 633 G., dated 26th May 1884, and it seems needless now to recapitulate arguments which have already been practically accepted by the Government of India. It will be sufficient apparently to solicit the attention of that Government to Colonel Senkey's memorandum printed as appendix E to this office letter, No. 2696 W., dated 16th October 1882, in which the impossibility of regulating the cost of establishment by a hard-and-fast system of percentages on Revenue and Expenditure, or of applying such percentage charges as a test of economical and efficient management, was clearly demonstrated. The note submitted to the Government of India by Colonel Brownlow after inquiry on the spot into the needs of this Presidency with respect to Public Works establishment, will further prove that the cost of the Public Works establishment considered necessary in Madras is not unreasonable.

5. The budget grants under all heads for Works and Repairs in 1886-87 amounted to Rs. 63,77,732, while those for 1887-88 aggregate Rs. 56,14,855. While therefore the Works grant for 1887-88 is less than that for 1886-87 by Rs. 7,62,877, the estimated cost of Establishment for the present year is less than that for 1886-87 by Rs. 3,49,548. The estimate for Establishment has therefore been reduced in a much greater ratio than the estimate for Works.

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

* This sum includes a lump sum provision of Rs. 32,542 for temporary establishment, from which the pay of subordinate Office and Account establishments employed in Court of Wards' estates, &c., will be met.

Exd. P. L. Pereira.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated April, 26th.

Recd. *Encl.*

G.O., 26th April 1887, Nos. 1146, 1147 W.

APRIL.

Madras Public Works Establishment

Revised estimates of the —, submitted to the Government of India.

61

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. 2611 W., 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.

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 —.

P. 523 G.R.

From

G. F. Walch Esqre

Superintending Engineer

1st Circle

To

The Chief Engineer

P. W.

Madras

30-11-87

Recd 7-12-87

Sir,

With reference to G.O. No. 2610 dated 24th October 1887, I have the honor to say that I consider that for permanent Subordinates to the following extent in the various Divisions of this Circle

Godavari Eastern. 2.

Vizagapatam 2

Ganjam 1 } as compared with proposals in Rc. 2nd dy dy 27/10/87.

Rushikulya 1 }

(2). I do not see how, consistently with preventing even greater trouble than there now is in meeting the requirements of the accounts branch, there can be any reduction in

62

Sub Divisional Establishments under
no one or two cases I fear I shall
have to make use for an increase.
(3) In all cases I believe it to
be necessary to provide detached
Officers with Clerks; for such offices
have generally had all sorts of
Bills of considerable amount of
Administrative work which necessitates
much correspondence in both English
and the Vernaculars of the districts.
As regards "detached" Subordinates
the necessity for supplying them as
generally depends on their having imprest
holders which they generally are.

I have the honor to be
Sir
Your most Obed.t Servant
L. Stewart
Superintending Engineer
Ist Circle

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

TO
THE CHIEF ENGINEER
~~FOR IRRIGATION.~~

DATED 30th November 1887
DESPATCHED 1st December
RECEIVED 2nd

No. 323 GL

ENCLOSURES. —

SUBJECT.

Establishment

Reports the extent to which the — can be reduced.

Cuddalore
Mary
12.12.87

No 270. GL
Superintending Engineer's Office
2nd Circle Bezwada 22 October 1887

From
J. W. Randall Esquire
Supt Engineer
2nd Circle

To
The Chief Engineer
Public Works Department
Madras

Sir

I have the honor, with reference to the Board's Proceedings (1) to state

(1) That I think it might be possible to a limited extent to substitute lower for upper subordinates. That is to say I think there are too many obtaining Overseers Certificates each year that we could get them with a College Certificate who would like employment as Subovereers. The number of these of the old Hereditary class but with some education are those whom I have hitherto considered as the Reserve of

New

and if the Sanjam Project [illegible] to be had to pay, it would be a great mistake not to give sufficient Establishment for the maintenance and development of the works. The same remarks apply to the Kistna. Any reduction would be certainly mean indirect loss of revenue and direct loss from insufficient maintenance and future enhanced expenditure. When the works are paying as well as our works are, a point which may be overlooked when Establishments [illegible] from Provincial Funds are under consideration, it is very false economy to keep Establishment so low that the [illegible] cannot be properly superintended. I have no hesitation in saying that any further reductions in Engineering or Controlling Establishment would be followed by considerable loss of efficiency. Further I am certain that in some cases, notably the Godavari Sub Division, the office Establishment of the Sub Division is not sufficient at present. I considered that it is

(3)

necessary

every office has more work than can be
got through properly. Since the abolition
of the Gunboat Division, the Public
Works Division accounts can not
be kept up to time, and the arrears in
the Harbour Division and the necessity
of increase to the Establishment, form
the subject of another letter.

4 As far as my experience
goes, I do not think that 3 Draftsmen
are wanted in a Civil Engineer's office,
but on the other hand, there being a
third Draftsman is most useful,
as I am thereby enabled to send another
man to any Division office where there
is a press of work to assist in getting
out plans and Estimates which are
urgently needed. Hence I do not think
the third Draftsman should be
disallowed.

I have the honour to be
Sir
Your most obedient humble
servant

J. W. Rundall
Civil Engineer

From

The Superintending Engineer

Vizagapatam.

To

The Chief Engineer

Public Works Dept.

Madras.

Dated Bellary the 22nd October 1887

Rec'd the 27th do

No. 270 G.I.

Establishment charges—

reduction of—in the P.W.D.

Submitting comments regarding

Ref.

Mem 28.10.87

Superintending Engineer's Office,

3RD CIRCLE

Bellary, 7th Nov 1887.

No. 1598

FROM,

Col. W. Smalley RE

SUPERINTENDING ENGINEER,

IIIrd CIRCLE.

To,

THE Chief Engineer

PWD

Madras

SIR,

Enclosures.

G.O. No. 2610 K. 4th October 1887

I have the honour to report on para 2 of the above order

2 (1) Whether it would be practicable to substitute a certain proportion of lowers for upper Subordinates and if so to what extent the substitution should be carried out in each Division of the several Circles

A (1) This could only be done I think provided the Standard were not lowered and that Sub Overseers were not appointed without an Overseers Certificate. In fact the same men as now to be employed but with less pay on entering the Dept. The change only to be carried out gradually. Eventually perhaps there might be half as many Sub Overseers as Overseers or even as many with this qualification.

In this Circle the present and future

Division	Executive		Total	Subordinate		Total
	0	10		0	10	
Kurnool	5		5	3	3	6
Bellary	4	2	6	3	3	6
Cuddapah	3	1	4	3	1	4
Total	12	3	15	9	7	16

In the Engineer for Irrigation has intimated that an extra Division will be opened for Tank Restoration works in 1903-04

2(2) Whether any re-distribution of existing Sub Divisional & Subdivisional limits is necessary

Under 1 Passenger and 3 Lascars

Clerk & establishment for the

Assistant Engineers should be

Officers also might be put in charge

Supervision I am not able to

question is granted to include the cost of

Sub Divisions and hence any additional

allowances could be refunded. Planning &

Research may be given to Asst. and Sub

Assistant Engineers should have charge of

Sub Divisions and that Sub Engineers and

Supervisors certainly the latter should never

rock charge of Sub Divisions but serve as attached or detached Officers. In many Divisions perhaps in most there need be no Sub Divisions, but where there was an Assistant Engineer he might be most usefully employed as an Assistant to the Executive Engineer for the General Duties of the Division.

At present the Sub Divisions are constituted as follows in this Circle.

Kurnool Canal 3. and Ordinary 1 with 2 attached Officers
1 attached to the Canal

Bellary ——— 2.

Cuddapah ——— 2.

I consider Every Assistant Engineer & Ottamam might with advantage have charge of 2 Canal Sub Divisions instead of one as at present and in that case the Extra Sub Divisional Officer might be put on Tank Restoration works and one of the attached Officers transferred to Bellary & the 4th Sub Division which I consider should be formed there of the Town and Cantonment of Bellary and perhaps the other attached Officer to Cuddapah which seems under manned at present.

2(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.

4(3) Where an attached Officer or Overseer is at H.Q. it is not necessary that he should

From,
The Superintending Engineer,
IIIrd Circle.

To,
The Chief Engineer
P.W.D
Madras

Dated 7th November 1887.
Received

Enclosures.

No. 1578.

Reduction of Establishment in the P. W. D.
Reporting on the feasibility of—

W.C.S. 9.11.87

Superintending Engineer's Office 4th Circle.

Coimbatore, 25 October 1887.

No. 437/Gen

From,

COLONEL J. BEATTY R. E.,
Superintending Engineer,
Fourth Circle.

To,

The Chief Engineer
P. W. Department

Sir,

I have the honor to report on the points specified in G.O. No. 2,610 W of 4th Instant.

(1) The difference between Madras and Bengal in respect to the numbers of Upper and Lower subordinates I believe to be due to the fact that individual charges in Madras are much larger than in Bengal. In the Coimbatore and Salem Districts each subordinate not incharge of a sub-division has to superintend, on the average, works scattered over two Talugs; so that much of his time is unavoidably occupied in travelling. In the West Coast

Coast Division the extent of country over which each overseer has to travel is even greater, there being only 3 overseers allowed to Kanara and Malabar. In the Nilgiri Division there is one overseer (Sergeant Healy) at Wellington, where a military subordinate on the spot is indispensable and an apprentice overseer (Corporal Carmody) under practical training at Ootacamund. In the Nilgiris no reduction of the number of overseers is practicable and in Coimbatore the overseers might possibly be replaced for cases where only maintenance and repairs have to be effected by a greater number of lower subordinates, at the rate of the charge of each subordinate now retained. Possibly even in the upper subordinates in Coimbatore might thus be replaced by 6 or 8 lower subordinates. But of the rest of the subordinates I see no reason that can at present be suggested. Both in production and in public works in the West Coast districts the Rajas are owners of Sequahs and Pandiliyas, the want of good communications and the isolated situation of a great many works, I think it would be quite out of the question

question to substitute a lower subordinate for any upper subordinate.

(2) The sub-divisional officers on the Nilgiris are at a minimum of strength; in fact sanction has been obtained to increase one by an additional clerk. In the other Division I do not think that any reduction is feasible; I consider there should be one writer and one messenger to each sub division, besides three lascars for camp work.

(3) I believe it is strict economy to provide detached officers and Overseers with clerks. Such upper subordinates are appointed primarily for field work, and it must always be impossible for them to devote sufficient time to it if they are continually hampered by having to write up nominal rolls, ten day reports, stock statements and keep up what is often a voluminous correspondence.

I have the honor to be
Sir
Your most obt servant

L. Beatty Colonel RE
Supty: Engineer III Circle

FROM

COLONEL J. BEATTY R. E.,
SUPERINTENDING ENGINEER,
FOURTH CIRCLE.

Dated 25th October 1887.
Recd: [illegible] 87

No: 437
Rec.

Enclo:

Sir,

Public Works Department.

Reporting on the points specified in G.O. No. 2610 of 4th Octr. 1887 relative to the retention charges in connection with the [illegible].

Superintending Engineer's Office
5th Circle
Chapra the 17th December 1887.

No. 3981

From

Colonel H. M. Vibart, R.E.
Superintending Engineer
5th Circle

To

The Chief Engineer
P.W. Department.

Sir,

With reference to G.O. No. 2610 W. dated 4th October 1887, I have the honor to state, with regard to the question whether it would be practicable to substitute a certain proportion of lower for Upper Subordinates, that I consider it would be inadvisable to introduce lower Subordinates in place of Upper Subordinates unless men possessing the same qualifications as the present Overseers, can be obtained. Under the present system, no work can be

only one Clerk and four Las-
=cars. A Clerk is indispensable
and I am of opinion that the num-
ber of Lascars should not be
reduced and that any reduction
will prove detrimental to the
efficiency of Sub Divisional
Officers.

3. With regard to whether it
is necessary to provide detach-
=ed Officers and Overseers
with Clerks, I consider Clerks
are wanted for both detached
Officers and Overseers. The
charges of these Upper Sub-
=ordinates are very large, and
a great deal of the Sub-
=ordinate's time is taken up
in travelling about their charges.
Moreover a good deal of
field work in the way of
Levelling & Surveying in Con-
=nection

I am

Establishments. I do not think
any reduction is feasible at
present but the question of pos-
sible reductions will be kept in
view.

5. I would mention, while
on this subject, that in my opin-
-on the Subordinate Staff is
altogether too small to work the
Department properly. This throws a
great deal of work on the Su-
Divisional Officers whose charges
are consequently necessarily large
as are also those of the Subor-
-dinates under them and the
works cannot therefore be pro-
-perly supervised by the
present number of Subor-
-dinates which is reduced
below the limit with which
it is practicable to get

No. 3981

From

The Superintending Engineer
5th Circle

To

The Chief Engineer
Pr Depte.

19 DEC 87

Dated 17 December 1887.
Read 20 December 1887.

Reduction of Establishment Charges in the 5th Circle

Report on the Subject by

Copied 20.12.87

No. 1359. T.T.

Office of the Supg Engineer 6th Circle
Trichinopoly 20th October 1887.
D/24th

From

The Superintending Engineer
VI Circle
Trichinopoly

To

The Chief Engineer
Public Works Department
Madras.

Sir,

With reference to G.O. No. 2610 of 4th October 1887, I have the honor to report as follows:—

(1) I do not consider that it would be practicable to substitute lower for upper Subordinates, though a slight addition to the lower Subordinate Establishment would be desirable.

(2) No reductions are feasible in existing sub-divisional Establishments but for my own part I should be very glad to see the "sub-division" abolished altogether and all Subordinates above the rank of Overseers treated as detached Officers in direct communication with the Executive Engineer.

(3) It is certainly necessary to provide detached Officers and Overseers with Clerks. These Subordinates have a large

large amount of clerical and account work which can be much better done by clerks than by draughtsmen and it would be the best possible economy to dispense with the services of their clerks - As a matter of fact the Department as regards surveys was tried some years and proved such a financial failure that it was abandoned -

2 Having been employed in the Department for some years including the period between the reductions of 1879 & the consequent increase of 1881 and also during the period of the Finance Committee visit to India at the beginning of this year I may be allowed to offer a few remarks upon some points bearing the immediate scope of the reference made in para 2 of the G.O. under reply -

3 In para 4 of the Government of India letter it is stated that the number of Divisions has been reduced by three since 1881 but no notice has been taken of the Punjaub Division or of the four Irrigation parts which as regards Engineering Establishment may certainly be considered as regular Divisions; the first

equation

equalises the balance, while since the beginning of the year a Serial Division has been formed, so that there is now actually one more Division than in 1881 - Moreover the Jamrao Restoration scheme (including the 6th Asst to the Chief Engineer for Irrigation) now absorbs five Officers while the four project Divisions never absorbed more than four - In reality therefore the Jamrao Restoration scheme might be taken as balancing the whole four Project Divisions instead of only two - On this view there are actually three more Divisions now than in 1881, not three less - In any case, if the number of Divisions is reduced because there are not Officers to administer them and then the number of Officers is reduced because of the reduction in the number of Divisions, it would not be long before the Department became used to Excess.

4. The number of Officers due to three Divisions is stated to be right - In this Circle with seven Divisions there are ten Officers -

5. As regards the number of Supervisor Subordinates in each Division the

Explanation

(and I am bound to say with perfect justice) of the insufficiency of their subordinate Establishments, and a fifth will certainly do so before long.

7. The same remarks apply to the Office Establishments; to any one who knows how our Office Establishments are worked it is difficult to reply seriously to a suggestion that they are too strong. There is a certain novelty in the suggestion that "accounts work is reduced in every possible way in the Divisional Officers and thrown on the Examiner". Most Officers of the Executive branch are under the impression that the exact opposite is the case.

8. As to the percentage on works referred to in para 2 it has been shown over and over again that the real percentage of Establishment is certainly not larger in Madras than in the rest of India - The figures on which the rate of 23 per cent is based have never so far as I know been published and in all the discussions in 1879, 1882, 1883, and 1886 we never succeeded in finding out how this figure was arrived at. What we did find out

and

and proceed to demonstration was that as regards the Irrigation Esta-blishments which on the whole form the best parallel to the Madras General Establishment, this figure could only be obtained by charging an utterly preposterous proportion of the Establish-ment against Revenue, and that if the charge against the latter were limited to the five per cent which is the Lining Cost of Collection there the debit to "works" would be nearer forty per cent than twenty three.

9. It must also be remembered that one cause which tends to increase the proportion which the Establishment bears to the works expenditure in Madras is the smallness of the latter; in other words the superior economy with which the work is done. This point was gone into in some detail Summary the Memorandum alluded to above, and it was con-clusively shown that whatever the work to be done, whether the irrigation of a given area, the securing of a given amount of revenue, the housing of a given number of troops, or the accommodation of the Civil admi-nistration over a given area, it was done for much less in Madras than in any other Province.

10. If two Establishments have a particular duty to perform and one does it for an Expenditure of Rs 100,000 on Works and Rs 25,000 on Esta-blishment, while the other spends Rs 60,000 on Works and Rs 20,000 on Establishment, it is a misuse of lan-guage to call the former the more economical of the two.

I have the honor to be,
Sir,
Your most obedient Servant,
[illegible] Lieutt Col R.E.
Superintending Engineer 6th Circle

From
The Supt Engineer
6 circle.
To
The Chief Engineer
P.W.D.

No 1359 TJ
Dated 20 October 1887.
Rec'd 3 October 1887.

Reports on the question of reduction of Establishment charges in connection with the Dept.

W.W
29.10.87

Dft
W.W
87

P. W. D

Consulting Architect's Office,
Chepauk, Madras,
16th November 1886.

No 1073

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

To The Chief Engineer
Public Works Department
Madras

Sir,

Enclosure.

With reference to G.O No 2610 W dated the 4th October 1887, I have the honor to reply as follows:—

1, It will not be practicable to substitute lower for the Upper Subordinates employed in this Division, the works which they are in charge of are Chiefly important buildings with a large brick manufactory which require Experienced men.

2, No reductions are recommended in existing Sub Divisional Establishments.

3, There are no detached officers or Overseers belonging to this Division.

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

J W Brassington
Consulting Architect to Govt

Public Works Department.

From

THE CONSULTING ARCHITECT

TO THE GOVERNMENT OF MADRAS,

To

The Chief Engineer
P.W.D

No. 1078

Dated 16 November 1887.

Received

No. OF ENCLOSURES. Nil

Subject.

Stating that no reductions or substitution in the Establishments of this Division are recommended.

Copy to 30 C

Recd 18 Nov 87

DEPARTMENT

Remarks.

102

Should be ordered 4th October 1887.

(3) Whether it is necessary to provide detached officers & overseers with clerks & if it is considered necessary the reasons for such conclusions should be stated

Considers it necessary in all cases to provide detached Offrs with clerks, as such Offrs necessarily anticipate in English and Vernacular — Detached subordinate Offrs being superintendents require clerks.

Considers it necessary to provide detached Offrs subordinate with clerks — as their time is fully taken up in attending to office work.

When the detached officers are at head quarters the clerical work could be done in the Ex. Engineer's Office — but when detached Offrs are away from head quarters they should be provided with clerks —

Considers it absolutely necessary to provide detached Offrs and Sub Overseers with clerks — Both upper subordinates are appointed primarily for field work, and have no time for clerical work.

Considers it necessary to provide detached Offrs subordinate with clerks. The charges of the upper subordinates are very large and involve a great deal of field work which leaves them very little time for Office work.

Considers it would be the most economical to depute detached Offrs without clerks. Many subordinates have a large amount of clerical and account work which can be much better done by clerks. The experiment once tried some years ago and proved a failure.

Considers that Offrs & Overseers in Civil division

Abstract of replies from Supt^{g} Engineers to G.O. [illegible]

	(1) whether it would be practicable to substitute a certain proportion of the Upper Subordinates, & if so, to what extent the substitution should be carried out in each Division.	(2) whether any reductions are feasible in existing Sub. divisional Establishments.
I Circle.	States that for permanent upper Subordinate might be substituted permanent Lower Subordinates to the following extent — Sub-man Surveyor Dr — 2 Vaccinator " — 2 Sanyasi —— " — 1 Rudhrambya —— 1	No reduction feasible in 1 or 2 cases would probably have to ask for an increase.
II Circle.	States that probably $\frac{1}{5}$ of the existing number of Surveyors posts might as vacancies occur be filled by Sub-Surveyors, but is unwilling to say it would be an advantageous step.	Any further reduction would be followed by considerable loss of efficiency - In some cases the present establishment is insufficient.
III Circle	Considers it practicable provided Sub-Surveyors hold Surveyors certificate. The change ought to be carried out gradually - Eventually Upper Subordinates may be substituted by Lower Subordinates to the following extent — Surveyor Dr — 3 Bullock —" — 1.	Sub divisional establishments might be reduced by the necessary no. on leaving the service.
IV Circle	As the subordinate charges in his circle entail no considerable excess which involves a great deal of travelling, does not consider it possible to substitute Upper Subordinates by Lower Subordinates. Possibly 3 or 4 of the Upper Subordinates in Coimbatore might be replaced by 6 or 8 Lower Subordinates if the area of the charge of each were reduced.	In the Nilgiris Dr sanctions have obtained to increase the Sub Dr Office by one additional clerk. Does not consider any reductions possible in the other divisions.
V Circle	If Lower Subordinates possessing the same qualifications as the present Surveyors can be obtained considers they might be employed in substitution of $\frac{1}{3}$ the number of Upper Subordinates in each division.	Any reduction would be detrimental to the efficiency of Sub. divisional Offices.
VI Circle	Does not consider it practicable to substitute Lower for Upper Subordinates - though a slight addition to the Lower Subordinate Establishment would be desirable	no reduction feasible in existing Sub-divisional Establishments
Chief Engr. to Govt.	will not be practicable to substitute Lower for Upper Subordinates in his Division. The works are chiefly important buildings with a large brick accompaniment which require experienced supervision.	Recommends no reduction in existing Sub-divisions.

Extract

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the S.E. I Circle No 323 dt. 27 30th Nov. 1887
" " — do II Circle " 270 dt. 27 22nd Oct "
" " — do — III Circle " 1558 dt 27 7th Nov. 1887
" " — do — IV Circle " 437 dt. 27 25th Oct. 1887
" " — do — V Circle " 3981 dt 27 17th Dec. 1887
" " — do — VI Circle " 1359 dt. 27 20th Oct. 1887
" " — C.A. Ogivy " 1073 dt 27 16th Nov. 1887.

Ordered that the Encyclopedia be addressed A.S. No 46 w 27

To The Secretary to the G. of I. P.W.D.

Sir,

In my letter No 2611 dated 14 October 1887, relating to your No 1721 dt 27 2nd Sept 1887, it was stated that the sanctioned strength of executive engineers &

3. With respect to (1), I am to say that, after consulting ~~administrative~~ officers of the Dept, & after careful consideration of the question, they are of opinion that although some slight addition to the existing lower subordinate establishment may be desirable, it would not be advisable to increase 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 Presy, have already been referred to in my letter No. 2611 W above quoted, & in previous correspondence - Upper subordinates here, as a rule, have

he considered wherever that the punctual rendition 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 & executive Officers of the dept are unanimous in considering that it would be the reverse of economy to define detailed duties & powers of their clerks and the Govt. after reading the arguments brought forward, fully concur in that view. Upper subordinates are primarily appointed for field work, & 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

" ~~that~~ after patient and prolonged inquiry on the spot, I am convinced that the P. W. Establt. asked for by the Govt of Madras is not unreasonable in amount, that it is employed on duties which cannot be discharged by any other or fewer officers in Govt employ, that these duties are well & efficiently performed, and that, in consequence of this satisfactory performance a very handsome return is secured by Govt for its expenditure, with regard to clerical establt. it has already been stated in para 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