GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

Read—again G.O., dated 27th June 1883, No. 1308, Financial.

Read—also the following papers :—

No. 1743-C.

MEMORANDUM.

With reference to Financial department memorandum, No. 1477, dated 4th August 1883, the undersigned has the honor to report as follows.

2. The Superintending Engineers, II and III Circles, state that they are in communication with the Presidents of the Local Fund boards in their circles on the subject of G.O., Financial, No. 1308, dated 27th June 1883, but they are unable to state when they will be able to furnish the required information.

3. The Superintending Engineers, IV and V Circles, have submitted the reports called for, and these are now being transmitted to the Financial department.

4. The Superintending Engineer, VI Circle, states that he has much information to collect, and hopes to furnish the required report by the end of November.

5. No reply has been received from the Superintending Engineer, I Circle, and a reminder has been sent to him.

(By order.)

Madras, 17*th September* 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Financial department.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works department, dated Bangalore, 13th September 1883, No. 2190.

With reference to G.O., No. 1934 W., dated the 11th July 1883, I have the honor to report that, in the Chingleput circle, the average cost of the Local Fund Engineering establishment in four years is rather below 14 per cent. of the expenditure on works. Two years ago the charge was 15½ per cent., and the expected charge for the current year is 13·6 per cent. I am of opinion that 15 per cent. may fairly be taken as a limit for the proportion of outlay on establishment to outlay on works.

2. In South Arcot for the three past years, the average cost of establishment has been 12·8 per cent. of the expenditure on works, and the actual charge in 1882-83 was 15 per cent. But in 1881-82, the outlay on works was Rs. 2,38,637, while for the current year the expected outlay is no more than Rs. 1,50,567. Consequently the establishment charges which have increased in the two years are 17·6 per cent. of the outlay contemplated in the present year.

3. Thus the establishment appears to have outrun the funds available for works. But in G.O., Financial department, No. 1539, of the 19th July 1883, paragraph 3, the board were asked if the estimate of land-cess revenue might not be raised by Rs. 30,000. If this amount were added to the sum available for works, the establishment charges would then be 14·6 per cent. of the funds for works. Again, if the existing establishment had as much money to spend as in 1881-82, the establishment would cost only 11·1 per cent. of the charges for works.

Revenue Board, No. 2319, dated 10th August 1883.

4. Owing to unfavorable seasons and arrears, the funds to be spent on works appear to be now in a depressed condition, and 18 per cent. must be taken as proportion of outlay on establishment to that on works for the present year. But in more favorable times, there appears to be no reason why the charges should not as a rule be kept within 15 per cent.

No. 1744-C.

Endorsement on the above.

Transferred to the Financial department, with reference to G.O. in that department, No. 1308, dated 27th June 1883.

(By order.)

Chepauk, 17*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Colonel S. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works department, dated Coimbatore, 13th September 1883, No. 386.

With reference to G.O., No. 1934, of 11th July 1883, I have the honor to forward, herewith, five statements showing for the Local Fund circles * the probable expenditure on works, the present outlay on establishments, and what I would consider a reasonable maximum within which any increase asked for by the Local Fund boards might be sanctioned.

* Coimbatore circle.
Salem do.
Hosúr do.
Vellore do.
Chittoor do.

2. The establishments are at present, especially in North Arcot, on a very moderate scale, and I anticipate that it will be found in the course of time convenient to increase them. My proposals show what I consider would be sufficient establishments on such pay as would secure the services of properly-qualified men. At present in some circles overseers only draw Rs. 20 a-month, which is less than has to be given to good maistries in this department.

3. The expenditure on works has been fixed with reference to that of recent years, and will be reduced if light railways are sanctioned for any districts, as funds must be found for such works by reducing the outlay on roads and buildings. In that case the outlay on establishments will have to be proportionately reduced.

Enclosures.

Coimbatore Circle—10 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,84,000
Present establishment at 13·3 per cent.	24,515
Proposed maximum at 17 per cent.	31,200

—	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	400	..	1	500	..
Supervisors	300	..	3	450	..
Overseers	330	..	10	600	..
Sub-overseers	310	..	..	..	..
	1,340	16,080	..	1,550	18,600
Office establishment ..	300	3,600	..	400	4,800
Travelling allowance ..	440	5,280	..	650	7,800
Total ..	2,080	24,930	..	2,600	31,200

Salem Circle—5 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,09,000
Present establishment at 11·8 per cent.	12,815
Proposed maximum at 18·4 per cent.	19,920

—	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	500	..	1	500	..
Supervisor	..	..	1	150	..
Overseers	355	..	6	360	..
Sub-overseer	25	..	..	..	..
	880	10,560	..	1,010	12,120
Office establishment ..	240	2,880	..	250	3,000
Travelling allowance ..	240	2,880	..	400	4,800
Total ..	1,360	16,320	..	1,660	19,920

Hosur Circle—3 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	38,300
Present establishment at 13·1 per cent.	5,020
Proposed maximum at 22 per cent.	8,460

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	200	..	1	200	..
Overseers	180	..	3	180	..
	380	4,560	..	380	4,560
Office establishment ..	68	816	..	100	1,200
Travelling allowance ..	173	2,076	..	225	2,700
Total ..	621	7,452	..	705	8,460

Vellore Circle—4 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	70,300
Present establishment at 13 per cent.	10,485
Proposed maximum at 19·1 „	13,440

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	250	..
Supervisor	..	..	1	150	..
Overseers	..	..	4	240	..
	661	*8,035	..	640	7,680
Office establishment ..	250	*2,977	..	160	1,920
Travelling allowance ..	..	..	..	320	3,840
Total ..	..	11,012	..	1,120	13,440

Particulars of the establishment have not been furnished by North Arcot.

* Inclusive of travelling allowance.

Chittoor Circle—5 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,32,000
Present establishment at 11 per cent.	13,661
Proposed maximum at 16·4 per cent.	21,660

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	500	..
Supervisors	..	..	2	300	..
Overseers	..	..	5	300	..
	893	10,713	..	1,100	13,200
Office establishment ..	368	4,420	..	275	3,300
Travelling allowance ..	..	..	..	430	5,160
Total ..	..	15,133	..	1,805	21,660

Particulars of the establishment have not been furnished by North Arcot.

No. 1745-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1744-C, dated 17th September 1883.

(By order.)

Chepauk, 17*th September* 1883.

(Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From G. T. WALCH, Esq., Officiating Superintending Engineer, I Circle, to the Chief Engineer, Public Works department, dated Dowlaishweram, 13th September 1883, No. 256-G.L.

With reference to G.Os., Nos. 1934, 27th June 1883, and 2218 W., 10th August 1883, I have the honor to say that as I have nothing to do with the working of the Local Fund establishment, I do not see how to arrive with any degree of certainty at what is a fair proportion for the outlay on such establishments to outlay on "works" in the Local Fund circles in the districts comprised in this Department of Public Works circle.

2. Considering, however, the simple character of most of the work done, admitting of the employment of chiefly low paid subordinates, I think that, from about 20 per cent. in the Godávari district to 25 per cent. in the northern part of Ganjam, would be ample.

No. 1789-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1745-C, dated 17th September 1883.

(By order.)

Chepauk, 24*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Major S. C. CLARKE, R.E., Officiating Superintending Engineer, III Circle, to the Chief Engineer, Public Works department, dated Bellary, 20th September 1883, No. 1743.

With reference to the G.O., Financial, No. 1308, of the 27th June, forwarded with your order thereon, No. 1934 W., of the 11th of July, I have the honor to state that, after perusing the statements obligingly supplied by the Collectors of Kurnool, Cuddapah, Anantapur and Bellary, regarding the numerical strength of their several Local Fund Engineering establishments, and the extent of the circles to be supervised, I have come to the conclusion that 20 per cent. on the average annual outlay on the works of each district might be fixed as the minimum proportion of cost of establishment to outlay incurred, and 25 per cent. as the maximum which it might periodically arise to, from incidental causes.

2. From the statement drawn up from the information afforded by the several district officers, it will be seen that the first three Local Fund circles have been administered within the maximum rate laid down, and, as far as I am able to judge, the said establishment charges would appear to be equitable.

	Percentage.
Kurnool	21
Cuddapah	20
Anantapur	15
Bellary	30

3. Whether or not the establishment of executive staff should be increased is a difficult matter to decide, but I presume that each Executive Engineer should be able to show some good reason for applying for additional assistance.

4. Both the Bellary and Anantapur circles employ a supervisor to assist the Executive Engineer, which arrangement is essential in my opinion, for I do not think that any executive officer, however active he may be, can, single-handed, even with the aid of a number of lower subordinates, efficiently supervise his district, within which there are upwards of 800 miles of roadway to maintain in order.

5. The other two districts apparently manage to carry on work under the supervision of one executive officer, with several sub-overseers to assist, but no provision is thereby made for supplying, even temporarily, the post of the executive officer.

No. 1794-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

Chepauk, 24*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From J. W. RUNDALL, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works department, dated Bezváda, 28th November 1883, No. 342 G.L.

I have the honor, with reference to G.O., No. 1934 W., of the 11th July, forwarding G.O., No. 1308, Financial, of the 27th June 1883, in which Superintending Engineers are directed to inquire into the amount of establishment required in each Local Fund circle, I have the honor to state that I have obtained statements from the Presidents of the Masulipatam, Guntúr and Nellore boards, comprised within this circle, but I find it very difficult to express an opinion as to what should be the normal allowance for superintendence, as I have no means of judging to what extent the establishment are employed in getting out estimates for future work.

2. I believe, however, that, in the Masulipatam and Guntúr circles, no large estimates, requiring special establishment, are in preparation, and that the whole establishment are therefore engaged on construction and repairs.

3. I find from the statements sent me that in the Masulipatam circle the cost of supervision has been as follows:—

	Per cent.
In 1880-81	14·15
„ 1881-82	11·39
„ 1882-83	18·40

For the first two years it was moderate; there was I believe an accumulated balance in the first 2 years, and that as a rule the annual expenditure on works in this circle will be about Rs. 1,50,000. The present expenditure on establishment is stated to be about Rs. 27,500, and is therefore moderate. The Local Fund Engineer states that a recent proposal to strengthen his office by an additional clerk was made. This was supported by the circle board and the President, but negatived by the Revenue Board.

4. As regards the Guntúr circle, the percentage in previous years has not been communicated, but I find that in 1882-83, the percentage of establishment on outlay was 11·12 per cent. which is very moderate. The Vice-President states that the Local Fund Engineer's office is unable to cope with the work, and urges that two additional clerks on Rs. 35 and 20 be sanctioned. This proposal is supported by the circle board and the President.

5. As regards the Nellore circle, details have been furnished only for 1882-83. The sum expended on works in this year was Rs. 1,48,649, and the expenditure on establishment amounted to Rs. 30,982, equal to nearly 21 per cent. on the expenditure. The expenditure was moreover short of the allotment by Rs. 65,000 showing that the large establishment employed did not turn out as much work as should have been done. On examining the details of establishment employed in this circle, I find that though the Local Fund Engineer draws a small salary (Rs. 400 per mensem) yet there are two Assistant Engineers on Rs. 250 each. There are also 13 overseers. This number may be necessary, as the circle is a large one, comprising the whole district, but I should have thought that two officers of the supervisor grade, on Rs. 150 rising to Rs. 200, would have sufficed as assistants to the Local Fund Engineer.

6. As regards office establishment, the President states that the staff of clerks in the Local Fund Engineer's office is insufficient, and that for the present two clerks from the Assistant Engineer's offices, on Rs. 20 per month, have been transferred to the Local Fund Engineer's office. From the President's note it would appear that the same numerical strength has been allowed in the offices of the Local Fund Engineer and the Assistant Engineers. This would appear to be a mistake, as I conclude only initial accounts are made out in the sub-divisional offices.

7. Probably Rs. 2,500 a-year would be saved, in the first instance, by employing two supervisors instead of two Assistant Engineers in this circle.

No. 2473-C.

Endorsement on the above.

Transferred to the Financial department in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

Chepauk,
11*th December* 1883.

From Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works department, dated Negapatam, 26th January 1884, No. 2120-T.J.

With reference to G.O., No. 1934 W., dated 11th July 1883, in which I am instructed to make inquiries and report my opinion as to the proportion which the outlay on establishment of the Local Fund boards should bear to the total outlay on works, I have the honor to bring to your notice that the present establishments in the different circles vary so much in class, pay, and numbers. I am unable to make any definite proposal or give more than a general opinion on the matter.

Two statements.

2. I forward two statements, one showing the budget grants for works and establishments for this year in the seven Local Fund circles that exist in my so-called territory, and the other showing the details of the establishments. The percentage varies from 14·6 to 18·55 in 6 of the circles and is 26·7 in Dindigul; this last is simply because this circle, with a total grant of Rs. 54,000, have (or have allowed for) an Engineer on Rs. 400 a-month. If they were content to share an Engineer with Madura, as Shermádevi does with Tinnevelly, the percentage would be reduced to somewhat the same as the others.

3. With regard to establishments, each board, with, I suppose, the approval of the Board of Revenue and Government, has different ideas as to the arrangement best; there is no uniform scale of numbers, pay or class of their servants, and their works of course must be carried out in different ways in the different circles.

A reference to statement No. 2 shows that Tanjore and Negapatam, each with a grant of nearly Rs. 1,40,000, have each an Engineer on Rs. 400 a-month. Trichinopoly, Madura, and Tinnevelly have an expenditure of about Rs. 1,00,000; the two first have Engineers, on Rs. 500, the latter shares with Shermádevi (with an expenditure of Rs. 50,000) the services of an Engineer on Rs. 575, and Dindigul, with an expenditure a little over Rs. 50,000, has one on Rs. 400.

4. With regard to the lower ranks it is the same.

In Shermádevi there is a man called an Assistant Engineer on Rs. 175.

In four of the circles there are supervisors drawing Rs. 150 a-month, and in one a supervisor draws Rs. 100.

The overseers draw from Rs. 30 to Rs. 60, in one circle they all draw Rs. 60, in another all Rs. 50, and in two circles only is there the Rs. 30 grade.

In Tanjore district only there are so called sub-overseers on Rs. 20.

The same difference with regard to clerks, &c., will be found.

5. It is useless my attempting to lay down what establishment I consider should be adopted to each circle unless something of a uniform system is adopted for the Presidency. I am only to state generally that I consider the establishment should not cost more than 20 per cent. of the value of the work done.

6. The President of the Tanjore circles has kindly furnished me with a copy of a Local Fund Public Works Code that I believe is in force, but this chiefly refers to accounts, but does not lay down the duties of the different members of the establishment. I would urge that this should be done.

I regret to find that the forms and accounts are almost as intricate and elaborate as those of the Public Works Code. I think this might be modified with advantage.

7. I will further venture to add a short sketch of what I consider should be done with regard to establishments.

There should be only one Engineer in each district, his pay being divided when there are two circles according to the expenditure.

He should have a strong office at head-quarters in it; all plans and estimates should be made and all accounts be compiled into the forms required by the Account department. He should exercise general supervision and be the professional adviser of the Presidents and the boards.

There should be Assistant Engineers and Supervisors who should have charge of 2, 3 or more taluks; their duty will be to exercise supervision over the overseers, to check their accounts, measurements, &c., and also measure up important works themselves. Under the Engineer's orders they will give out the smaller contracts and make payments.

Overseers will have charge of a taluk or any group of roads or works. They will superintend all works in their charge, make petty payment, &c.

There will be a few sub-overseers in each circle to take charge of special works.

8. The pay of the Engineers to be Rs. 400 to 700.

Assistant Engineers	,,	200 ,, 300.
Supervisors	,,	100 ,, 150.
Overseers	,,	40 ,, 70.
Sub-overseers	,,	15 ,, 25.

All these should be placed in one list in classes, and if practicable increments to be given to them for good services. They should be liable for transfer from one circle to another as found advisable or for promotion.

The appointments of the Engineers, Assistant Engineers and Supervisors should rest with the Board of Revenue and not entirely with the Presidents of circles.

9. If a general scheme for all the districts and circles is decided on and the duties of all ranks laid down there will be no difficulty in laying down scales of pay, &c., for the different ranks and the establishment for the different circles; and if this is done I believe that the Local Fund boards will find their work better done and supervised than at present.

Enclosures.

VI *Circle.*

Statement showing the amount of allotments granted for 1883-84 for Local Fund works in the several Local Fund circles, and the percentage on the cost of Local Fund establishment.

District.	Local Fund circles.	New works under all heads.	Repairs under all heads.	Total.	Grant for Local Fund establishment.	Percentage of establishment on the total grant, column 5.	Grant for tools and plant.	Grant for contingencies.
1	2	3	4	5	6	7	8	9
		Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
Tanjore	Tanjore	44,695	94,685	1,39,380	20,460	14·67	2,180	..
	Negapatam	89,220	47,900	1,37,120	22,760	16·59	2,200	250
Trichinopoly	Trichinopoly	20,540	74,950	95,490	16,500	17·27	2,000	720
Madura	Madura	10,100	94,800	1,04,900	15,700	14·96	2,830	1,270
	Dindigal	4,100	49,920	54,020	14,430	26·71	1,350	..
Tinnevelly	Tinnevelly	34,550	65,133	99,683	18,300	18·35	1,290	1,000
	Shermádevi	8,660	42,280	50,940	9,450	18·55	890	..

VI CIRCLE.

STATEMENT showing the numerical strength of the Local Fund Engineering establishment and their salaries, &c., as they stand in 1883-84 in the several Local Fund circles.

Establishment.	Tanjore district.						Trichinopoly circle.			Madura district.						Tinnevelly district.					
	Tanjore circle.			Negapatam circle.						Madura circle.			Dindigul circle.			Tinnevelly circle.			Shermádevi circle.		
1	2			3			4			5			6			7			8		
	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.
Engineer's office.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
Engineer	1	400	400	1	400	400	1	500	500	1	500	500	1	400	400	1	575	* 575	..	..	..
Assistant Engineer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	175	175
Accountant	1	40	40	1	40	40	1	30	30	1	15	15	1	20	20	1	25	25	..	..	..
Second accountant	1	30	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Head clerk	1	30	30	..	..	..	1	50	50	1	30	30	1	50	50	1	30	*a* 30	..	..	..
Clerk	..	..	..	1	25	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do.	3	20	60	..	..	..	1	20	20	1	20	20	..	..	..	1	20	20	1	20	20
Do.	..	..	..	..	..	..	1	15	15	..	..	..	1	15	15	..	..	..	..	..	..
Vernacular clerk	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	10	10	..	..	..
Draughtsman	2	35	70	1	35	35	1	40	40	1	40	40	1	35	35	1	35	35	..	..	..
Peon	1	8	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Attender	1	7	7	..	..	..	..	..	..	..	..	..	..	..	..	1	7	7	..	..	..
Lascar	3	7	21	1	7	7	4	7	28	4	7	28	4	7	28	..	..	..	..	..	..
Do.	..	..	..	2	6	12	..	..	..	..	..	..	..	..	..	3	6	18	1	6	6
Executive office.	..	..	666	..	..	519	..	..	683	..	..	633	..	..	548	..	..	*c* 720	..	..	201
Supervisor	1	150	150	2	150	300	1	150	150	1	100	100	..	..	..	2	150	300	..	..	..
Clerk	1	20	20	2	20	40	1	20	20	..	..	..	..	..	..	2	20	40	..	..	..
Do.	1	15	15	2	15	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Draughtsman	..	..	..	1	25	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lascar	2	6	12	4	6	24	2	6	12	..	..	..	..	..	..	2	6	12	..	..	..
Overseer	1	60	60	5	60	300	..	..	..	..	..	..	2	60	120	3	60	180	1	60	60
Do.	1	50	50	..	..	..	1	50	50	4	50	200	1	50	50	..	..	..	..	..	..
Do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	45	135	2	45	90
Do.	3	40	120	..	..	..	1	40	40	..	..	..	..	..	..	..	..	..	..	..	..
Do.	..	..	..	..	..	..	3	30	90	..	..	..	1	30	30	..	..	..	..	..	..
Sub-overseer	5	20	100	5	20	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clerks to overseers	5	15	75	5	15	75	5	15	75	4	15	60	4	15	60	..	..	..	..	..	..
Lascar	5	6	30	5	6	30	5	6	30	4	6	24	4	6	24	6	6	36	3	6	18
Cavalgar	..	..	..	..	..	..	1	6	6	..	..	..	..	..	..	..	..	..	..	..	..
Travelling allowance, contingencies, &c.	..	..	407	..	..	454	..	..	219	..	..	292	..	..	*b* 371	..	..	*c* 170 / 230	..	..	120
Total per mensem	..	..	1,705	..	..	1,897	..	..	1,375	..	..	1,309	..	..	1,203	..	..	1,823	..	..	489
Total per annum	..	..	20,460	..	..	22,760	..	..	16,500	..	..	15,700	..	..	14,430	..	..	21,876	..	..	5,868
Deduct one-third share of Rs. 10,680 *d*, being the salary and travelling allowance of the Engineer officer and his office establishment due to Shermádevi circle.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,560	..	..	..
																		18,316			5,868
Add the do. do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,560
Total as entered in budgets in round numbers.	..	..	20,460	..	..	22,760	..	..	16,500	..	..	15,700	..	..	14,430	..	..	18,300	..	..	9,450

* Average for a month, the rate of salary being Rs. 550 for the first six months, and Rs. 600 for the other six months.

a This is to be increased hereafter—*vide* paragraph 2 of the President's letter, No. 689, of 15th September 1883.

b Includes hill battas for the Engineer and his establishment, and also office-rent and printing charges.

c 720 salary of Engineer and his establishment.
170 travelling allowance and his establishment.
890
12
1,780
890

d 10,680

No. 246-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of endorsement, No. 2473-C, dated 11th December 1883.

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

1*st February* 1884.

To the Financial department.

Order—dated 24th April 1884, No. 878, Financial.

In June 1883 the Government directed the Public Works department to report on the proportion which the outlay on Local Fund Engineering establishments should bear to the total outlay on works.

G.O., dated 27th June 1883, No. 1308.

2. The opinions of the Superintending Engineers on the point are recorded in the papers read above. The general opinion appears to be that the existing Local Fund establishments are numerically weak, and that while it is unadvisable to lay down an uniform scale for the whole Presidency 20 per cent. of the expenditure on works may be accepted as the maximum sum to be expended on establishments. These views commend themselves to the Government, but it must at the same time be clearly understood that establishments are not to be framed on one model irrespective of local requirements and circumstances, or too much value attached to comparisons which are not based on a series of years, and which perhaps include abnormal or exclude normal expenditure.

3. With these remarks the Government remit the question for the consideration of the several Local Fund boards in view to their submitting for approval statements showing the strength and cost of the Engineering establishments that they would propose to employ.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To all Local Fund boards, through Board of Revenue.
„ the Public Works department.

Exd. J. Wright.

P.W.D

Govt. of {1884} Madras.

FINANCIAL.

No. 1270 W of 21st May/884

Recorded
sd/ J.L.S

Issued

Recd. *Encl.*

G.O., 24th April 1884, No. 878.

No. 1270 W of 21st May/84

APRIL.

Local Fund Engineering Establishments.

Directing the several Local Fund boards to submit statements showing the strength and cost of the — they would propose to entertain, with a view to their re-organization.

S.E.
Ex. P.W. accts

Withorder

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

Read—again G.O., dated 27th June 1883, No. 1308, Financial.

Read—also the following papers :—

No. 1743-C.

MEMORANDUM.

With reference to Financial department memorandum, No. 1477, dated 4th August 1883, the undersigned has the honor to report as follows.

2. The Superintending Engineers, II and III Circles, state that they are in communication with the Presidents of the Local Fund boards in their circles on the subject of G.O., Financial, No. 1308, dated 27th June 1883, but they are unable to state when they will be able to furnish the required information.

3. The Superintending Engineers, IV and V Circles, have submitted the reports called for, and these are now being transmitted to the Financial department.

4. The Superintending Engineer, VI Circle, states that he has much information to collect, and hopes to furnish the required report by the end of November.

5. No reply has been received from the Superintending Engineer, I Circle, and a reminder has been sent to him.

(By order.)

Madras,
17*th September* 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Financial department.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works department, dated Bangalore, 13th September 1883, No. 2190.

With reference to G.O., No. 1934 W., dated the 11th July 1883, I have the honor to report that, in the Chingleput circle, the average cost of the Local Fund Engineering establishment in four years is rather below 14 per cent. of the expenditure on works. Two years ago the charge was 15½ per cent., and the expected charge for the current year is 13·6 per cent. I am of opinion that 15 per cent. may fairly be taken as a limit for the proportion of outlay on establishment to outlay on works.

2. In South Arcot for the three past years, the average cost of establishment has been 12·8 per cent. of the expenditure on works, and the actual charge in 1882-83 was 15 per cent. But in 1881-82, the outlay on works was Rs. 2,38,637, while for the current year the expected outlay is no more than Rs. 1,50,567. Consequently the establishment charges which have increased in the two years are 17·6 per cent. of the outlay contemplated in the present year.

3. Thus the establishment appears to have outrun the funds available for works. But in G.O., Financial department, No. 1539, of the 19th July 1883, paragraph 3, the board were asked if the estimate of land-cess revenue might not be raised by Rs. 30,000. If this amount were added to the sum available for works, the establishment charges would then be 14·6 per cent. of the funds for works. Again, if the existing establishment had as much money to spend as in 1881-82, the establishment would cost only 11·1 per cent. of the charges for works.

Revenue Board, No. 2319, dated 10th August 1883.

4. Owing to unfavorable seasons and arrears, the funds to be spent on works appear to be now in a depressed condition, and 18 per cent. must be taken as proportion of outlay on establishment to that on works for the present year. But in more favorable times, there appears to be no reason why the charges should not as a rule be kept within 15 per cent.

No. 1744-C.

Endorsement on the above.

Transferred to the Financial department, with reference to G.O. in that department, No. 1308, dated 27th June 1883.

(By order.)

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

Chepauk,
17*th September* 1883.

From Colonel S. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works department, dated Coimbatore, 13th September 1883, No. 386.

With reference to G.O., No. 1934, of 11th July 1883, I have the honor to forward, herewith, five statements showing for the Local Fund circles * the probable expenditure on works, the present outlay on establishments, and what I would consider a reasonable maximum within which any increase asked for by the Local Fund boards might be sanctioned.

* Coimbatore circle.
Salem do.
Hosúr do.
Vellore do.
Chittoor do.

2. The establishments are at present, especially in North Arcot, on a very moderate scale, and I anticipate that it will be found in the course of time convenient to increase them. My proposals show what I consider would be sufficient establishments on such pay as would secure the services of properly-qualified men. At present in some circles overseers only draw Rs. 20 a-month, which is less than has to be given to good maistries in this department.

3. The expenditure on works has been fixed with reference to that of recent years, and will be reduced if light railways are sanctioned for any districts, as funds must be found for such works by reducing the outlay on roads and buildings. In that case the outlay on establishments will have to be proportionately reduced.

Enclosures.

Coimbatore Circle—10 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,84,000
Present establishment at 13·3 per cent.	24,515
Proposed maximum at 17 per cent.	31,200

—	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	400	..	1	500	..
Supervisors	300	..	3	450	..
Overseers	330	..	10	600	..
Sub-overseers	310	..	..	..	..
	1,340	16,080	..	1,550	18,600
Office establishment ..	300	3,600	..	400	4,800
Travelling allowance ..	440	5,280	..	650	7,800
Total ..	2,080	24,960	..	2,600	31,200

Salem Circle—5 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,09,000
Present establishment at 11·8 per cent.	12,815
Proposed maximum at 18·4 per cent.	19,920

—	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	500	..	1	500	..
Supervisor	..	..	1	150	..
Overseers	355	..	6	360	..
Sub-overseer	25	..	..	..	..
	880	10,560	..	1,010	12,120
Office establishment ..	240	2,880	..	250	3,000
Travelling allowance ..	240	2,880	..	400	4,800
Total ..	1,360	16,320	..	1,660	19,920

Hosur Circle—3 Taluks.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	38,300
Present establishment at 13·1 per cent.	5,020
Proposed maximum at 22 per cent.	8,460

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	200	..	1	200	..
Overseers	180	..	3	180	..
	380	4,560	..	380	4,560
Office establishment ..	68	816	..	100	1,200
Travelling allowance ..	173	2,076	..	225	2,700
Total ..	621	7,452	..	705	8,460

Vellore Circle—4 Taluks.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	70,300
Present establishment at 13 per cent.	10,485
Proposed maximum at 19·1 „	13,440

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	250	..
Supervisor	..	..	1	150	..
Overseers	..	..	4	240	..
	661	*8,035	..	640	7,680
Office establishment ..	250	*2,977	..	160	1,920
Travelling allowance ..	..	..	..	320	3,840
Total ..	..	11,012	..	1,120	13,440

Particulars of the establishment have not been furnished by North Arcot.

* Inclusive of travelling allowance.

Chittoor Circle—5 Taluks.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,32,000
Present establishment at 11 per cent.	13,661
Proposed maximum at 16·4 per cent.	21,660

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	500	..
Supervisors	..	..	2	300	..
Overseers	..	..	5	300	..
	893	10,713	..	1,100	13,200
Office establishment ..	368	4,420	..	275	3,300
Travelling allowance ..	..	..	..	430	5,160
Total ..	..	15,133	..	1,805	21,660

Particulars of the establishment have not been furnished by North Arcot.

No. 1745-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1744-C, dated 17th September 1883.

(By order.)

Chepauk, 17*th September* 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

From G. T. WALCH, Esq., Officiating Superintending Engineer, I Circle, to the Chief Engineer, Public Works department, dated Dowlaishweram, 13th September 1883, No. 256-G.L.

With reference to G.Os., Nos. 1934, 27th June 1883, and 2218 W., 10th August 1883, I have the honor to say that as I have nothing to do with the working of the Local Fund establishment, I do not see how to arrive with any degree of certainty at what is a fair proportion for the outlay on such establishments to outlay on "works" in the Local Fund circles in the districts comprised in this Department of Public Works circle.

2. Considering, however, the simple character of most of the work done, admitting of the employment of chiefly low paid subordinates, I think that, from about 20 per cent. in the Godávari district to 25 per cent. in the northern part of Ganjam, would be ample.

No. 1789-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1745-C, dated 17th September 1883.

(By order.)

Chepauk, 24*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Major S. C. CLARKE, R.E., Officiating Superintending Engineer, III Circle, to the Chief Engineer, Public Works department, dated Bellary, 20th September 1883, No. 1743.

With reference to the G.O., Financial, No. 1308, of the 27th June, forwarded with your order thereon, No. 1934 W., of the 11th of July, I have the honor to state that, after perusing the statements obligingly supplied by the Collectors of Kurnool, Cuddapah, Anantapur and Bellary, regarding the numerical strength of their several Local Fund Engineering establishments, and the extent of the circles to be supervised, I have come to the conclusion that 20 per cent. on the average annual outlay on the works of each district might be fixed as the minimum proportion of cost of establishment to outlay incurred, and 25 per cent. as the maximum which it might periodically arise to, from incidental causes.

2. From the statement drawn up from the information afforded by the several district officers, it will be seen that the first three Local Fund circles have been administered within the maximum rate laid down, and, as far as I am able to judge, the said establishment charges would appear to be equitable.

	Percentage.
Kurnool	21
Cuddapah	20
Anantapur	15
Bellary	30

3. Whether or not the establishment of executive staff should be increased is a difficult matter to decide, but I presume that each Executive Engineer should be able to show some good reason for applying for additional assistance.

4. Both the Bellary and Anantapur circles employ a supervisor to assist the Executive Engineer, which arrangement is essential in my opinion, for I do not think that any executive officer, however active he may be, can, single-handed, even with the aid of a number of lower subordinates, efficiently supervise his district, within which there are upwards of 800 miles of roadway to maintain in order.

5. The other two districts apparently manage to carry on work under the supervision of one executive officer, with several sub-overseers to assist, but no provision is thereby made for supplying, even temporarily, the post of the executive officer.

No. 1794-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

Chepauk, 24*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From J. W. RUNDALL, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works department, dated Bezváda, 28th November 1883, No. 342 G.L.

I have the honor, with reference to G.O., No. 1934 W., of the 11th July, forwarding G.O., No. 1308, Financial, of the 27th June 1883, in which Superintending Engineers are directed to inquire into the amount of establishment required in each Local Fund circle, I have the honor to state that I have obtained statements from the Presidents of the Masulipatam, Guntúr and Nellore boards, comprised within this circle, but I find it very difficult to express an opinion as to what should be the normal allowance for superintendence, as I have no means of judging to what extent the establishment are employed in getting out estimates for future work.

2. I believe, however, that, in the Masulipatam and Guntúr circles, no large estimates, requiring special establishment, are in preparation, and that the whole establishment are therefore engaged on construction and repairs.

3. I find from the statements sent me that in the Masulipatam circle the cost of supervision has been as follows:—

	Per cent.
In 1880-81	14·15
„ 1881-82	11·39
„ 1882-83	18·40

For the first two years it was moderate; there was I believe an accumulated balance in the first 2 years, and that as a rule the annual expenditure on works in this circle will be about Rs. 1,50,000. The present expenditure on establishment is stated to be about Rs. 27,500, and is therefore moderate. The Local Fund Engineer states that a recent proposal to strengthen his office by an additional clerk was made. This was supported by the circle board and the President, but negatived by the Revenue Board.

4. As regards the Guntur circle, the percentage in previous years has not been communicated, but I find that in 1882-83, the percentage of establishment on outlay was 11·12 per cent. which is very moderate. The Vice-President states that the Local Fund Engineer's office is unable to cope with the work, and urges that two additional clerks on Rs. 35 and 20 be sanctioned. This proposal is supported by the circle board and the President.

5. As regards the Nellore circle, details have been furnished only for 1882-83. The sum expended on works in this year was Rs. 1,48,649, and the expenditure on establishment amounted to Rs. 30,982, equal to nearly 21 per cent. on the expenditure. The expenditure was moreover short of the allotment by Rs. 65,000 showing that the large establishment employed did not turn out as much work as should have been done. On examining the details of establishment employed in this circle, I find that though the Local Fund Engineer draws a small salary (Rs. 400 per mensem) yet there are two Assistant Engineers on Rs. 250 each. There are also 13 overseers. This number may be necessary, as the circle is a large one, comprising the whole district, but I should have thought that two officers of the supervisor grade, on Rs. 150 rising to Rs. 200, would have sufficed as assistants to the Local Fund Engineer.

6. As regards office establishment, the President states that the staff of clerks in the Local Fund Engineer's office is insufficient, and that for the present two clerks from the Assistant Engineer's offices, on Rs. 20 per month, have been transferred to the Local Fund Engineer's office. From the President's note it would appear that the same numerical strength has been allowed in the offices of the Local Fund Engineer and the Assistant Engineers. This would appear to be a mistake, as I conclude only initial accounts are made out in the sub-divisional offices.

7. Probably Rs. 2,500 a-year would be saved, in the first instance, by employing two supervisors instead of two Assistant Engineers in this circle.

No. 2473-C.

Endorsement on the above.

Transferred to the Financial department in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

Chepauk,
11*th December* 1883.

From Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works department, dated Negapatam, 26th January 1884, No. 2120-T.J.

With reference to G.O., No. 1934 W., dated 11th July 1883, in which I am instructed to make inquiries and report my opinion as to the proportion which the outlay on establishment of the Local Fund boards should bear to the total outlay on works, I have the honor to bring to your notice that the present establishments in the different circles vary so much in class, pay, and numbers. I am unable to make any definite proposal or give more than a general opinion on the matter.

Two statements.

2. I forward two statements, one showing the budget grants for works and establishments for this year in the seven Local Fund circles that exist in my so-called territory, and the other showing the details of the establishments. The percentage varies from 14·6 to 18·55 in 6 of the circles and is 26·7 in Dindigul; this last is simply because this circle, with a total grant of Rs. 54,000, have (or have allowed for) an Engineer on Rs. 400 a-month. If they were content to share an Engineer with Madura, as Shermádevi does with Tinnevelly, the percentage would be reduced to somewhat the same as the others.

3. With regard to establishments, each board, with, I suppose, the approval of the Board of Revenue and Government, has different ideas as to the arrangement best; there is no uniform scale of numbers, pay or class of their servants, and their works of course must be carried out in different ways in the different circles.

A reference to statement No. 2 shows that Tanjore and Negapatam, each with a grant of nearly Rs. 1,40,000, have each an Engineer on Rs. 400 a-month. Trichinopoly, Madura, and Tinnevelly have an expenditure of about Rs. 1,00,000; the two first have Engineers, on Rs. 500, the latter shares with Shermádevi (with an expenditure of Rs. 50,000) the services of an Engineer on Rs. 575, and Dindigul, with an expenditure a little over Rs. 50,000, has one on Rs. 400.

4. With regard to the lower ranks it is the same.

In Shermádevi there is a man called an Assistant Engineer on Rs. 175.

In four of the circles there are supervisors drawing Rs. 150 a-month, and in one a supervisor draws Rs. 100.

The overseers draw from Rs. 30 to Rs. 60, in one circle they all draw Rs. 60, in another all Rs. 50, and in two circles only is there the Rs. 30 grade.

In Tanjore district only there are so called sub-overseers on Rs. 20.

The same difference with regard to clerks, &c., will be found.

5. It is useless my attempting to lay down what establishment I consider should be adopted to each circle unless something of a uniform system is adopted for the Presidency. I am only to state generally that I consider the establishment should not cost more than 20 per cent. of the value of the work done.

6. The President of the Tanjore circles has kindly furnished me with a copy of a Local Fund Public Works Code that I believe is in force, but this chiefly refers to accounts, but does not lay down the duties of the different members of the establishment. I would urge that this should be done.

I regret to find that the forms and accounts are almost as intricate and elaborate as those of the Public Works Code. I think this might be modified with advantage.

7. I will further venture to add a short sketch of what I consider should be done with regard to establishments.

There should be only one Engineer in each district, his pay being divided when there are two circles according to the expenditure.

He should have a strong office at head-quarters in it; all plans and estimates should be made and all accounts be compiled into the forms required by the Account department. He should exercise general supervision and be the professional adviser of the Presidents and the boards.

There should be Assistant Engineers and Supervisors who should have charge of 2, 3 or more taluks; their duty will be to exercise supervision over the overseers, to check their accounts, measurements, &c., and also measure up important works themselves. Under the Engineer's orders they will give out the smaller contracts and make payments.

Overseers will have charge of a taluk or any group of roads or works. They will superintend all works in their charge, make petty payment, &c.

There will be a few sub-overseers in each circle to take charge of special works.

8. The pay of the Engineers to be Rs. 400 to 700.

Assistant Engineers	,,	200 ,, 300.
Supervisors	,,	100 ,, 150.
Overseers	,,	40 ,, 70.
Sub-overseers	,,	15 ,, 25.

All these should be placed in one list in classes, and if practicable increments to be given to them for good services. They should be liable for transfer from one circle to another as found advisable or for promotion.

The appointments of the Engineers, Assistant Engineers and Supervisors should rest with the Board of Revenue and not entirely with the Presidents of circles.

9. If a general scheme for all the districts and circles is decided on and the duties of all ranks laid down there will be no difficulty in laying down scales of pay, &c., for the different ranks and the establishment for the different circles; and if this is done I believe that the Local Fund boards will find their work better done and supervised than at present.

Enclosures.

VI *Circle.*

Statement showing the amount of allotments granted for 1883-84 for Local Fund works in the several Local Fund circles, and the percentage on the cost of Local Fund establishment.

District.	Local Fund circles.	New works under all heads.	Repairs under all heads.	Total.	Grant for Local Fund establishment.	Percentage of establishment on the total grant, column 5.	Grant for tools and plant.	Grant for contingencies.
1	2	3	4	5	6	7	8	9
		Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
Tanjore	Tanjore	44,695	94,685	1,39,380	20,460	14·67	2,180	..
	Negapatam	89,220	47,900	1,37,120	22,760	16·59	2,200	250
Trichinopoly	Trichinopoly	20,540	74,950	95,490	16,500	17·27	2,000	720
Madura	Madura	10,100	94,800	1,04,900	15,700	14·96	2,830	1,270
	Dindigal	4,100	49,920	54,020	14,430	26·71	1,350	..
Tinnevelly	Tinnevelly	34,550	65,133	99,683	18,300	18·35	1,290	1,000
	Shermádevi	8,660	42,280	50,940	9,450	18·55	890	..

VI CIRCLE.

STATEMENT showing the numerical strength of the Local Fund Engineering establishment and their salaries, &c., as they stand in 1883-84 in the several Local Fund circles.

Establishment.	Tanjore district.						Trichinopoly circle.			Madura district.						Tinnevelly district.					
	Tanjore circle.			Negapatam circle.						Madura circle.			Dindigul circle.			Tinnevelly circle.			Shermádevi circle.		
1	2			3			4			5			6			7			8		
	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.
Engineer's office.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
Engineer	1	400	400	1	400	400	1	500	500	1	500	500	1	400	400	1	575	* 575	..	..	..
Assistant Engineer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	175	175
Accountant	1	40	40	1	40	40	1	30	30	1	15	15	1	20	20	1	25	25	..	..	..
Second accountant	1	30	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Head clerk	1	30	30	..	..	..	1	50	50	1	30	30	1	50	50	1	30	*a* 30	..	..	..
Clerk	..	..	..	1	25	25	..	..	..	..	..	..	..	..	..	1	20	20	1	20	20
Do.	3	20	60	..	..	..	1	20	20	1	20	20	..	..	..	..	..	..	..	..	..
Do.	..	..	..	..	..	..	1	15	15	..	..	..	1	15	15	1	10	10	..	..	..
Vernacular clerk	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	35	35	..	..	..
Draughtsman	2	35	70	1	35	35	1	40	40	1	40	40	1	35	35	..	..	..	..	..	..
Peon	1	8	8	..	..	..	..	..	..	..	..	..	..	..	..	1	7	7	..	..	..
Attender	1	7	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lascar	3	7	21	1	7	7	4	7	28	4	7	28	4	7	28	3	6	18	1	6	6
Do.	..	..	..	2	6	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	666	..	..	519	..	..	683	..	..	633	..	..	548	..	..	*c* 720	..	..	201
Executive office.																					
Supervisor	1	150	150	2	150	300	1	150	150	1	100	100	..	..	..	2	150	300	..	..	..
Clerk	1	20	20	2	20	40	1	20	20	..	..	..	..	..	..	2	20	40	..	..	..
Do.	1	15	15	2	15	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Draughtsman	..	..	..	1	25	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lascar	2	6	12	4	6	24	2	6	12	..	..	..	2	60	120	2	6	12	..	..	..
Overseer	1	60	60	5	60	300	..	..	..	..	..	..	..	..	..	3	60	180	1	60	60
Do.	1	50	50	..	..	..	1	50	50	4	50	200	1	50	50	..	..	..	..	..	..
Do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	45	135	2	45	90
Do.	3	40	120	..	..	..	1	40	40	..	..	..	..	..	..	..	..	..	..	..	..
Do.	..	..	..	..	..	..	3	30	90	..	..	..	1	30	30	..	..	..	..	..	..
Sub-overseer	5	20	100	5	20	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clerks to overseers	5	15	75	5	15	75	5	15	75	4	15	60	4	15	60	..	..	..	..	..	..
Lascar	5	6	30	5	6	30	5	6	30	4	6	24	4	6	24	6	6	36	3	6	18
Cavalgar	..	..	..	..	..	..	1	6	6	..	..	..	..	..	..	..	..	..	..	..	..
Travelling allowance, contingencies, &c.	..	..	407	..	..	454	..	..	219	..	..	292	..	..	*b* 371	..	..	*c* { 170 / 230	..	..	120
	..	..	1,705	..	..	1,897	..	..	1,375	..	..	1,309	..	..	1,203	..	..	1,823	..	..	489
Total per mensem	..	..	20,460	..	..	22,760	..	..	16,500	..	..	15,700	..	..	14,430	..	..	21,876	..	..	5,868
Total per annum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,560	..	..	..
Deduct one-third share of Rs. 10,680 *d*, being the salary and travelling allowance of the Engineer officer and his office establishment due to Shermádevi circle.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18,316	..	..	5,868
Add the do. do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,560
Total as entered in budgets in round numbers.	..	..	20,460	..	..	22,760	..	..	16,500	..	..	15,700	..	..	14,430	..	..	18,300	..	..	9,450

* Average for a month, the rate of salary being Rs. 550 for the first six months, and Rs. 600 for the other six months.

a This is to be increased hereafter—*vide* paragraph 2 of the President's letter, No. 689, of 15th September 1883.

b Includes hill battas for the Engineer and his establishment, and also office-rent and printing charges.

c 720 salary of Engineer and his establishment.

e 170 travelling allowance and his establishment.

890
12
1,780
890

d 10,680

No. 246-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of endorsement, No. 2473-C, dated 11th December 1883.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
1*st February* 1884. *Secy. to Govt., P.W.D.*

To the Financial department.

ORDER—dated 24th April 1884, No. 878, Financial.

In June 1883 the Government directed the Public Works department to report on the proportion which the outlay on Local Fund Engineering establishments should bear to the total outlay on works.

G.O., dated 27th June 1883, No. 1308.

2. The opinions of the Superintending Engineers on the point are recorded in the papers read above. The general opinion appears to be that the existing Local Fund establishments are numerically weak, and that while it is unadvisable to lay down an uniform scale for the whole Presidency 20 per cent. of the expenditure on works may be accepted as the maximum sum to be expended on establishments. These views commend themselves to the Government, but it must at the same time be clearly understood that establishments are not to be framed on one model irrespective of local requirements and circumstances, or too much value attached to comparisons which are not based on a series of years, and which perhaps include abnormal or exclude normal expenditure.

3. With these remarks the Government remit the question for the consideration of the several Local Fund boards in view to their submitting for approval statements showing the strength and cost of the Engineering establishments that they would propose to employ.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To all Local Fund boards, through Board of Revenue.
„ the Public Works department.

Exd. J. Wright.

P.W.D

Govt. of {1884} Madras.

FINANCIAL.

No. 1270 W a/21st May/84

Recorded

S/ J. A. S.

Issued

Recd. *Encl.*

G.O., 24th April 1884, No. 878.

No 1270 W a/21st May/84

APRIL.

Local Fund Engineering Establishments.

Directing the several Local Fund boards to submit statements showing the strength and cost of the — they would propose to entertain, with a view to their re-organization.

S. Es

Ex. I. W. accts

Letter orders

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

Read—again G.O., dated 27th June 1883, No. 1308, Financial.

Read—also the following papers :—

No. 1743-C.

MEMORANDUM.

With reference to Financial department memorandum, No. 1477, dated 4th August 1883, the undersigned has the honor to report as follows.

2. The Superintending Engineers, II and III Circles, state that they are in communication with the Presidents of the Local Fund boards in their circles on the subject of G.O., Financial, No. 1308, dated 27th June 1883, but they are unable to state when they will be able to furnish the required information.

3. The Superintending Engineers, IV and V Circles, have submitted the reports called for, and these are now being transmitted to the Financial department.

4. The Superintending Engineer, VI Circle, states that he has much information to collect, and hopes to furnish the required report by the end of November.

5. No reply has been received from the Superintending Engineer, I Circle, and a reminder has been sent to him.

(By order.)

Madras,
17*th September* 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Financial department.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works department, dated Bangalore, 13th September 1883, No. 2190.

With reference to G.O., No. 1934 W., dated the 11th July 1883, I have the honor to report that, in the Chingleput circle, the average cost of the Local Fund Engineering establishment in four years is rather below 14 per cent. of the expenditure on works. Two years ago the charge was 15½ per cent., and the expected charge for the current year is 13·6 per cent. I am of opinion that 15 per cent. may fairly be taken as a limit for the proportion of outlay on establishment to outlay on works.

2. In South Arcot for the three past years, the average cost of establishment has been 12·8 per cent. of the expenditure on works, and the actual charge in 1882-83 was 15 per cent. But in 1881-82, the outlay on works was Rs. 2,38,637, while for the current year the expected outlay is no more than Rs. 1,50,567. Consequently the establishment charges which have increased in the two years are 17·6 per cent. of the outlay contemplated in the present year.

3. Thus the establishment appears to have outrun the funds available for works. But in G.O., Financial department, No. 1539, of the 19th July 1883, paragraph 3, the board were asked if the estimate of land-cess revenue might not be raised by Rs. 30,000. If this amount were added to the sum available for works, the establishment charges would then be 14·6 per cent. of the funds for works. Again, if the existing establishment had as much money to spend as in 1881-82, the establishment would cost only 11·1 per cent. of the charges for works.

Revenue Board, No. 2319, dated 10th August 1883.

4. Owing to unfavorable seasons and arrears, the funds to be spent on works appear to be now in a depressed condition, and 18 per cent. must be taken as proportion of outlay on establishment to that on works for the present year. But in more favorable times, there appears to be no reason why the charges should not as a rule be kept within 15 per cent.

No. 1744-C.

Endorsement on the above.

Transferred to the Financial department, with reference to G.O. in that department, No. 1308, dated 27th June 1883.

(By order.)

Chepauk, 17*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Colonel S. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works department, dated Coimbatore, 13th September 1883, No. 386.

With reference to G.O., No. 1934, of 11th July 1883, I have the honor to forward, herewith, five statements showing for the Local Fund circles * the probable expenditure on works, the present outlay on establishments, and what I would consider a reasonable maximum within which any increase asked for by the Local Fund boards might be sanctioned.

* Coimbatore circle.
Salem do.
Hosúr do.
Vellore do.
Chittoor do.

2. The establishments are at present, especially in North Arcot, on a very moderate scale, and I anticipate that it will be found in the course of time convenient to increase them. My proposals show what I consider would be sufficient establishments on such pay as would secure the services of properly-qualified men. At present in some circles overseers only draw Rs. 20 a-month, which is less than has to be given to good maistries in this department.

3. The expenditure on works has been fixed with reference to that of recent years, and will be reduced if light railways are sanctioned for any districts, as funds must be found for such works by reducing the outlay on roads and buildings. In that case the outlay on establishments will have to be proportionately reduced.

Enclosures.

Coimbatore Circle—10 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,84,000
Present establishment at 13·3 per cent.	24,515
Proposed maximum at 17 per cent.	21,200

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	400	..	1	500	..
Supervisors	300	..	3	450	..
Overseers	330	..	10	600	..
Sub-overseers	310	..	..	..	..
	1,340	16,080	..	1,550	18,600
Office establishment ..	300	3,600	..	400	4,800
Travelling allowance ..	440	5,280	..	650	7,800
Total ..	2,080	24,960	..	2,600	31,200

Salem Circle—5 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,09,000
Present establishment at 11·8 per cent.	12,815
Proposed maximum at 18·4 per cent.	19,920

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	500	..	1	500	..
Supervisor	..	..	1	150	..
Overseers	355	..	6	360	..
Sub-overseer	25	..	..	..	..
	880	10,560	..	1,010	12,120
Office establishment ..	240	2,880	..	250	3,000
Travelling allowance ..	240	2,880	..	400	4,800
Total ..	1,360	16,320	..	1,660	19,920

Hosur Circle—3 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	38,300
Present establishment at 13·1 per cent.	5,020
Proposed maximum at 22 per cent.	8,460

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	200	..	1	200	..
Overseers	180	..	3	180	..
	380	4,560	..	380	4,560
Office establishment ..	68	816	..	100	1,200
Travelling allowance ..	173	2,076	..	225	2,700
Total ..	621	7,452	..	705	8,460

Vellore Circle—4 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	70,300
Present establishment at 13 per cent.	10,485
Proposed maximum at 19·1 „	13,440

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	250	..
Supervisor	..	..	1	150	..
Overseers	..	..	4	240	..
	661	*8,035	..	640	7,680
Office establishment ..	250	*2,977	..	160	1,920
Travelling allowance ..	..	..	..	320	3,840
Total ..	..	11,012	..	1,120	13,440

Particulars of the establishment have not been furnished by North Arcot.

* Inclusive of travelling allowance.

Chittoor Circle—5 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,32,000
Present establishment at 11 per cent.	13,661
Proposed maximum at 16·4 per cent.	21,660

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	500	..
Supervisors	..	..	2	300	..
Overseers	..	..	5	300	..
	893	10,713	..	1,100	13,200
Office establishment ..	368	4,420	..	275	3,300
Travelling allowance ..	..	..	..	430	5,160
Total ..	..	15,133	..	1,805	21,660

Particulars of the establishment have not been furnished by North Arcot.

No. 1745-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1744-C, dated 17th September 1883.

(By order.)

Chepauk, 17*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From G. T. WALCH, Esq., Officiating Superintending Engineer, I Circle, to the Chief Engineer, Public Works department, dated Dowlaishweram, 13th September 1883, No. 256-G.L.

With reference to G.Os., Nos. 1934, 27th June 1883, and 2218 W., 10th August 1883, I have the honor to say that as I have nothing to do with the working of the Local Fund establishment, I do not see how to arrive with any degree of certainty at what is a fair proportion for the outlay on such establishments to outlay on "works" in the Local Fund circles in the districts comprised in this Department of Public Works circle.

2. Considering, however, the simple character of most of the work done, admitting of the employment of chiefly low paid subordinates, I think that, from about 20 per cent. in the Godávari district to 25 per cent. in the northern part of Ganjam, would be ample.

No. 1789-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1745-C, dated 17th September 1883.

(By order.)

Chepauk, 24*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Major S. C. CLARKE, R.E., Officiating Superintending Engineer, III Circle, to the Chief Engineer, Public Works department, dated Bellary, 20th September 1883, No. 1743.

With reference to the G.O., Financial, No. 1308, of the 27th June, forwarded with your order thereon, No. 1934 W., of the 11th of July, I have the honor to state that, after perusing the statements obligingly supplied by the Collectors of Kurnool, Cuddapah, Anantapur and Bellary, regarding the numerical strength of their several Local Fund Engineering establishments, and the extent of the circles to be supervised, I have come to the conclusion that 20 per cent. on the average annual outlay on the works of each district might be fixed as the minimum proportion of cost of establishment to outlay incurred, and 25 per cent. as the maximum which it might periodically arise to, from incidental causes.

2. From the statement drawn up from the information afforded by the several district officers, it will be seen that the first three Local Fund circles have been administered within the maximum rate laid down, and, as far as I am able to judge, the said establishment charges would appear to be equitable.

	Percentage.
Kurnool	21
Cuddapah	20
Anantapur	15
Bellary	30

3. Whether or not the establishment of executive staff should be increased is a difficult matter to decide, but I presume that each Executive Engineer should be able to show some good reason for applying for additional assistance.

4. Both the Bellary and Anantapur circles employ a supervisor to assist the Executive Engineer, which arrangement is essential in my opinion, for I do not think that any executive officer, however active he may be, can, single-handed, even with the aid of a number of lower subordinates, efficiently supervise his district, within which there are upwards of 800 miles of roadway to maintain in order.

5. The other two districts apparently manage to carry on work under the supervision of one executive officer, with several sub-overseers to assist, but no provision is thereby made for supplying, even temporarily, the post of the executive officer.

No. 1794-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

Chepauk, 24*th September* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From J. W. RUNDALL, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works department, dated Bezváda, 28th November 1883, No. 342 G.L.

I have the honor, with reference to G.O., No. 1934 W., of the 11th July, forwarding G.O., No. 1308, Financial, of the 27th June 1883, in which Superintending Engineers are directed to inquire into the amount of establishment required in each Local Fund circle, I have the honor to state that I have obtained statements from the Presidents of the Masulipatam, Guntúr and Nellore boards, comprised within this circle, but I find it very difficult to express an opinion as to what should be the normal allowance for superintendence, as I have no means of judging to what extent the establishment are employed in getting out estimates for future work.

2. I believe, however, that, in the Masulipatam and Guntúr circles, no large estimates, requiring special establishment, are in preparation, and that the whole establishment are therefore engaged on construction and repairs.

3. I find from the statements sent me that in the Masulipatam circle the cost of supervision has been as follows:—

	Per cent.
In 1880-81	14·15
,, 1881-82	11·39
,, 1882-83	18·40

For the first two years it was moderate; there was I believe an accumulated balance in the first 2 years, and that as a rule the annual expenditure on works in this circle will be about Rs. 1,50,000. The present expenditure on establishment is stated to be about Rs. 27,500, and is therefore moderate. The Local Fund Engineer states that a recent proposal to strengthen his office by an additional clerk was made. This was supported by the circle board and the President, but negatived by the Revenue Board.

4. As regards the Guntúr circle, the percentage in previous years has not been communicated, but I find that in 1882-83, the percentage of establishment on outlay was 11·12 per cent. which is very moderate. The Vice-President states that the Local Fund Engineer's office is unable to cope with the work, and urges that two additional clerks on Rs. 35 and 20 be sanctioned. This proposal is supported by the circle board and the President.

5. As regards the Nellore circle, details have been furnished only for 1882-83. The sum expended on works in this year was Rs. 1,48,649, and the expenditure on establishment amounted to Rs. 30,982, equal to nearly 21 per cent. on the expenditure. The expenditure was moreover short of the allotment by Rs. 65,000 showing that the large establishment employed did not turn out as much work as should have been done. On examining the details of establishment employed in this circle, I find that though the Local Fund Engineer draws a small salary (Rs. 400 per mensem) yet there are two Assistant Engineers on Rs. 250 each. There are also 13 overseers. This number may be necessary, as the circle is a large one, comprising the whole district, but I should have thought that two officers of the supervisor grade, on Rs. 150 rising to Rs. 200, would have sufficed as assistants to the Local Fund Engineer.

6. As regards office establishment, the President states that the staff of clerks in the Local Fund Engineer's office is insufficient, and that for the present two clerks from the Assistant Engineer's offices, on Rs. 20 per month, have been transferred to the Local Fund Engineer's office. From the President's note it would appear that the same numerical strength has been allowed in the offices of the Local Fund Engineer and the Assistant Engineers. This would appear to be a mistake, as I conclude only initial accounts are made out in the sub-divisional offices.

7. Probably Rs. 2,500 a-year would be saved, in the first instance, by employing two supervisors instead of two Assistant Engineers in this circle.

No. 2473-C.

Endorsement on the above.

Transferred to the Financial department in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

Chepauk, 11*th December* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works department, dated Negapatam, 26th January 1884, No. 2120-T.J.

With reference to G.O., No. 1934 W., dated 11th July 1883, in which I am instructed to make inquiries and report my opinion as to the proportion which the outlay on establishment of the Local Fund boards should bear to the total outlay on works, I have the honor to bring to your notice that the present establishments in the different circles vary so much in class, pay, and numbers. I am unable to make any definite proposal or give more than a general opinion on the matter.

Two statements.

2. I forward two statements, one showing the budget grants for works and establishments for this year in the seven Local Fund circles that exist in my so-called territory, and the other showing the details of the establishments. The percentage varies from 14·6 to 18·55 in 6 of the circles and is 26·7 in Dindigul; this last is simply because this circle, with a total grant of Rs. 54,000, have (or have allowed for) an Engineer on Rs. 400 a-month. If they were content to share an Engineer with Madura, as Shermádevi does with Tinnevelly, the percentage would be reduced to somewhat the same as the others.

3. With regard to establishments, each board, with, I suppose, the approval of the Board of Revenue and Government, has different ideas as to the arrangement best; there is no uniform scale of numbers, pay or class of their servants, and their works of course must be carried out in different ways in the different circles.

A reference to statement No. 2 shows that Tanjore and Negapatam, each with a grant of nearly Rs. 1,40,000, have each an Engineer on Rs. 400 a-month. Trichinopoly, Madura, and Tinnevelly have an expenditure of about Rs. 1,00,000; the two first have Engineers, on Rs. 500, the latter shares with Shermádevi (with an expenditure of Rs. 50,000) the services of an Engineer on Rs. 575, and Dindigul, with an expenditure a little over Rs. 50,000, has one on Rs. 400.

4. With regard to the lower ranks it is the same.

In Shermádevi there is a man called an Assistant Engineer on Rs. 175.

In four of the circles there are supervisors drawing Rs. 150 a-month, and in one a supervisor draws Rs. 100.

The overseers draw from Rs. 30 to Rs. 60, in one circle they all draw Rs. 60, in another all Rs. 50, and in two circles only is there the Rs. 30 grade.

In Tanjore district only there are so called sub-overseers on Rs. 20.

The same difference with regard to clerks, &c., will be found.

5. It is useless my attempting to lay down what establishment I consider should be adopted to each circle unless something of a uniform system is adopted for the Presidency. I am only to state generally that I consider the establishment should not cost more than 20 per cent. of the value of the work done.

6. The President of the Tanjore circles has kindly furnished me with a copy of a Local Fund Public Works Code that I believe is in force, but this chiefly refers to accounts, but does not lay down the duties of the different members of the establishment. I would urge that this should be done.

I regret to find that the forms and accounts are almost as intricate and elaborate as those of the Public Works Code. I think this might be modified with advantage.

7. I will further venture to add a short sketch of what I consider should be done with regard to establishments.

There should be only one Engineer in each district, his pay being divided when there are two circles according to the expenditure.

He should have a strong office at head-quarters in it; all plans and estimates should be made and all accounts be compiled into the forms required by the Account department. He should exercise general supervision and be the professional adviser of the Presidents and the boards.

There should be Assistant Engineers and Supervisors who should have charge of 2, 3 or more taluks; their duty will be to exercise supervision over the overseers, to check their accounts, measurements, &c., and also measure up important works themselves. Under the Engineer's orders they will give out the smaller contracts and make payments.

Overseers will have charge of a taluk or any group of roads or works. They will superintend all works in their charge, make petty payment, &c.

There will be a few sub-overseers in each circle to take charge of special works.

8. The pay of the Engineers to be Rs. 400 to 700.

Assistant Engineers	,,	200 ,, 300.
Supervisors	,,	100 ,, 150.
Overseers	,,	40 ,, 70.
Sub-overseers	,,	15 ,, 25.

All these should be placed in one list in classes, and if practicable increments to be given to them for good services. They should be liable for transfer from one circle to another as found advisable or for promotion.

The appointments of the Engineers, Assistant Engineers and Supervisors should rest with the Board of Revenue and not entirely with the Presidents of circles.

9. If a general scheme for all the districts and circles is decided on and the duties of all ranks laid down there will be no difficulty in laying down scales of pay, &c., for the different ranks and the establishment for the different circles; and if this is done I believe that the Local Fund boards will find their work better done and supervised than at present.

Enclosures.

VI *Circle.*

Statement showing the amount of allotments granted for 1883-84 for Local Fund works in the several Local Fund circles, and the percentage on the cost of Local Fund establishment.

District.	Local Fund circles.	New works under all heads.	Repairs under all heads.	Total.	Grant for Local Fund establishment.	Percentage of establishment on the total grant, column 5.	Grant for tools and plant.	Grant for contingencies.
1	2	3	4	5	6	7	8	9
		Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
Tanjore	Tanjore	44,695	94,685	1,39,380	20,460	14·67	2,180	..
	Negapatam	89,220	47,900	1,37,120	22,760	16·59	2,200	250
Trichinopoly	Trichinopoly	20,540	74,950	95,490	16,500	17·27	2,000	720
Madura	Madura	10,100	94,800	1,04,900	15,700	14·96	2,830	1,270
	Dindigal	4,100	49,920	54,020	14,430	26·71	1,350	..
Tinnevelly	Tinnevelly	34,550	65,133	99,683	18,300	18·35	1,290	1,000
	Shermádevi	8,660	42,280	50,940	9,450	18·55	890	..

VI CIRCLE.

STATEMENT showing the numerical strength of the Local Fund Engineering establishment and their salaries, &c., as they stand in 1883-84 in the several Local Fund circles.

Establishment.	TANJORE DISTRICT.						Trichinopoly circle.			MADURA DISTRICT.						TINNEVELLY DISTRICT.					
	Tanjore circle.			Negapatam circle.						Madura circle.			Dindigul circle.			Tinnevelly circle.			Shermádevi circle.		
1	2			3			4			5			6			7			8		
	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.
Engineer's office.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
Engineer	1	400	400	1	400	400	1	500	500	1	500	500	1	400	400	1	575	* 575	..	..	..
Assistant Engineer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	175	175
Accountant	1	40	40	1	40	40	1	30	30	1	15	15	1	20	20	1	25	25	..	..	..
Second accountant	1	30	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Head clerk	1	30	30	..	..	..	1	50	50	1	30	30	1	50	50	1	30	*a* 30	..	..	..
Clerk	..	..	..	1	25	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do.	3	20	60	..	..	..	1	20	20	1	20	20	..	..	..	1	20	20	1	20	20
Do.	..	..	..	..	..	..	1	15	15	..	..	..	1	15	15	..	..	..	..	..	..
Vernacular clerk	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	10	10	..	..	..
Draughtsman	2	35	70	1	35	35	1	40	40	1	40	40	1	35	35	1	35	35	..	..	..
Peon	1	8	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Attender	1	7	7	..	..	..	..	..	..	..	..	..	..	..	..	1	7	7	..	..	..
Lascar	3	7	21	1	7	7	4	7	28	4	7	28	4	7	28	..	..	..	..	..	..
Do.	..	..	..	2	6	12	..	..	..	..	..	..	..	..	..	3	6	18	1	6	6
Executive office.	..	..	666	..	..	519	..	..	683	..	..	633	..	..	548	..	..	*c* 720	..	..	201
Supervisor	1	150	150	2	150	300	1	150	150	1	100	100	..	..	..	2	150	300	..	..	..
Clerk	1	20	20	2	20	40	1	20	20	..	..	..	..	..	..	2	20	40	..	..	..
Do.	1	15	15	2	15	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Draughtsman	..	..	..	1	25	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lascar	2	6	12	4	6	24	2	6	12	..	..	..	..	..	..	2	6	12	..	..	..
Overseer	1	60	60	5	60	300	..	..	..	..	..	..	2	60	120	3	60	180	1	60	60
Do.	1	50	50	..	..	..	1	50	50	4	50	200	1	50	50	..	..	..	..	..	..
Do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	45	135	2	45	90
Do.	3	40	120	..	..	..	1	40	40	..	..	..	..	..	..	..	..	..	..	..	..
Do.	..	..	..	..	..	..	3	30	90	..	..	..	1	30	30	..	..	..	..	..	..
Sub-overseer	5	20	100	5	20	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clerks to overseers	5	15	75	5	15	75	5	15	75	4	15	60	4	15	60	..	..	..	..	..	..
Lascar	5	6	30	5	6	30	5	6	30	4	6	24	4	6	24	6	6	36	3	6	18
Cavalgar	..	..	..	..	..	..	1	6	6	..	..	..	..	..	..	..	..	..	..	..	..
Travelling allowance, contingencies, &c.	..	..	407	..	..	454	..	..	219	..	..	292	..	..	*b* 371	..	..	*c* { 170 230	..	..	120
Total per mensem	..	..	1,705	..	..	1,897	..	..	1,375	..	..	1,309	..	..	1,203	..	..	1,823	..	..	489
Total per annum	..	..	20,460	..	..	22,760	..	..	16,500	..	..	15,700	..	..	14,430	..	..	21,876	..	..	5,868
Deduct one-third share of Rs. 10,680 *d*, being the salary and travelling allowance of the Engineer officer and his office establishment due to Shermádevi circle.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,560	..	..	..
																		18,316			5,868
Add the do. do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,560
Total as entered in budgets in round numbers.	..	..	20,460	..	..	22,760	..	..	16,500	..	..	15,700	..	..	14,430	..	..	18,300	..	..	9,450

* Average for a month, the rate of salary being Rs. 550 for the first six months, and Rs. 600 for the other six months.
a This is to be increased hereafter—*vide* paragraph 2 of the President's letter, No. 689, of 15th September 1883.
b Includes hill battas for the Engineer and his establishment, and also office-rent and printing charges.
c 720 salary of Engineer and his establishment.
c 170 travelling allowance and his establishment.

890
12

1,780
890

d 10,680

No. 246-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of endorsement, No. 2473-C, dated 11th December 1883.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
1st *February* 1884. *Secy. to Govt., P.W.D.*

To the Financial department.

Order—dated 24th April 1884, No. 878, Financial.

In June 1883 the Government directed the Public Works department to report on the proportion which the outlay on Local Fund Engineering establishments should bear to the total outlay on works.

G.O., dated 27th June 1883, No. 1308.

2. The opinions of the Superintending Engineers on the point are recorded in the papers read above. The general opinion appears to be that the existing Local Fund establishments are numerically weak, and that while it is unadvisable to lay down an uniform scale for the whole Presidency 20 per cent. of the expenditure on works may be accepted as the maximum sum to be expended on establishments. These views commend themselves to the Government, but it must at the same time be clearly understood that establishments are not to be framed on one model irrespective of local requirements and circumstances, or too much value attached to comparisons which are not based on a series of years, and which perhaps include abnormal or exclude normal expenditure.

3. With these remarks the Government remit the question for the consideration of the several Local Fund boards in view to their submitting for approval statements showing the strength and cost of the Engineering establishments that they would propose to employ.

(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To all Local Fund boards, through Board of Revenue.
„ the Public Works department.

Exd. J. Wright.

P.W.D

Govt. of {1884} Madras.

FINANCIAL.

No 1270 W d/21st May/84

Recorded

(Signed) J.S.

8W 91.C 4051/82.

Issued

Recd. *Encl.*

G.O., 24th April 1884, No. 878.

No 1270 W d/21st May/84

APRIL.

Suptg: Engrs:
Exam: P.W. Accts.

Local Fund Engineering Establishments.

Directing the several Local Fund boards to submit statements showing the strength and cost of the — they would propose to entertain, with a view to their re-organization.

With Orders

27TH JUNE 1883, No. 1308, FINANCIAL.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

ORDER—dated 27th June 1883, No. 1308, Financial.

The Government observe that proposals are frequently submitted for the increase of Local Fund Engineering Establishments, but that the information furnished as regards the nature and amount of work to be done in the future is usually insufficient to afford the means of forming any definite opinion as to the proportion which the outlay on establishment should bear to the total outlay on works. The Public Works Department will, therefore, be requested to instruct Superintending Engineers, when inspecting districts, to take the opportunity of inquiring into this matter, reporting to Government their opinion as to the proportion which should be adopted for the time at least in each circle separately.

(True Extract.)

Chief Secretary.

To the Public Works Department.
„ Board of Revenue.

Exd. J. Wright.

No 1934 W dated 11th July/83

B

Communicated to Supply Engrs for information & guidance

Communicated to Supply Engrs for information & guidance

Cn

6/7

F.C.
A 2218 W 10.8.83
1743 C 17.9.83
1744 C 17.9.83
1745 C 17.9.83
1789 C 24.9.83
2473 C 11.12.83
246 C 2.2.84

B

Supply Engrs.
Supply Engrs

12/7

20/7

P.W.C. No. 5650

Govt. of (1883) Madras.

FINANCIAL.

8.S.C.

Issued

Recd. 5/7/83 Encl.

G.O., 27th June 1883, No. 1308.

7.S.C.

JUNE.

No 1934 W dated 11-7-83

No. 2218

Local Fund Engineering Establishments.

Requesting the Public Works Department to instruct Superintending Engineers, when inspecting districts, to take the opportunity of inquiring into the subject of the —, required in each circle.

With order

With order

Entd. in Receipt Regr.

10th August 1883, No. 2218 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Read—the following Official Memorandum from the Acting Chief Secretary to Government, Financial Department, to the Secretary to Government, Public Works Department, dated 4th August 1883, No. 1477.

The Secretary to Government, Public Works Department, is requested to state when the information called for in G.O., No. 1308, dated 27th June 1883, as to the proportion which the outlay on establishment should bear to the total outlay on works in each Local Fund Circle, is likely to be furnished.

Order—dated 10th August 1883, No. 2218 W., Public Works.

Communicated to Superintending Engineers, who will report when the information called for in G.O., No. 1934 W., dated 11th July 1883, may be expected.

(True Extract)

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
,, the Financial Department.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMNET.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated August, 10th.

Recd. *Encl.*

G.O., 10th Aug. 1883, No. 2218 W.

AUGUST.

Local Fund Engineering Establishments

The Superintending Engineers to report the probable date of submission of the information required of them by the Financial Department regarding the — required in each Local Fund Circle.

No. 182 G.D.

Superintending Engineer's Office
2nd Circle, Masulipatam
20th August 1883.

From

The Superintending Engineer,
2nd Circle.

To

The Chief Engineer,
Public Works Department,
Madras.

Sir,

In reply to G.O. No. 2218 W: of the 10th Instant, I have the honor to report that, I addressed the Presidents of the Local Fund Boards in this Circle on the 23rd ultimo, and asked for such information regarding the Cost of Local Fund Engineering Establishment, as would enable me to reply to G.O. No. 1934 W of the 10th July; but I regret to state, I cannot say when the requisite information will be furnished.

2. There is no information on record in my Office to enable me

to reply to the above quoted G.O.

I have the honor to be,

Sir,

Your most Obt Servant.

J. W. Rundall

Superintending Engineer,

2nd Circle.

Rd. No. 7377

From

The Superintending Engineer

II Circle

To

The Chief Engineer

P. W. D.

Madras.

Dated 20th August 1883

Despd 22d do

Recd 28 —

No 102 G.L.

Local Fund Engineering Establishments — Reports that he has addressed the Presidents of the L. F. Boards in the 2d Circle asking for information as to the cost of — and he cannot say when the requisite information will be furnished by them.

Complete Cir/28/8

SUPERINTENDING ENGINEER'S OFFICE,

~~Madras~~,

No. 1506 Bellary ~~Chepauk~~, 29th Augt 1883.

From Major S. C. Clarke R.E.

THE SUPERINTENDING ENGINEER,

III ~~1st~~ CIRCLE,

To

THE Chief Engineer

P.W.D.

Madras

SIR,

Enclosures.

In reply to G.O.No. 2218 W of 10th August, I have the honor to inform you that I am now in correspondence with the several Collectors of the Districts comprised within this Circle, on the subject matter of the G.O.No. 1308 of 27th June.

I have the honor to be

Sir

Your most obt servant

Major R.E.

Offg Superintending Engr

3rd Circle

MRD

From

A/c No. 7475

The Superintending Engineer,

III ~~1st~~ Circle,

To

The Chief Engineer
P.W.D.
Madras

Dated 29th August 1883.
Recd. 31

ENCLOSURES.

No. 1506

Local Fund Engineering Establishment

Reporting that Collectors have been written to, for the information regarding—

Compiled
CC
31/8

SUPD. ENGINEER'S OFFICE 4TH CIRCLE,

Camp Penney Ament, 23 Aug 1883.

No. 341

From,

The Superintending Engineer,
Fourth Circle.

To, The Chief Engineer
P.W.D.

Sir,

In reply to G.O. No. 2218 W of 10th instant, I have the honor to observe that the order of 27th June 1883 No. 1308 Financial directed that Superintending Engineers were to take the opportunity, when inspecting districts, of enquiring into the matter.

2. I think it advisable to confer personally with the Presidents, or Vice Presidents, in each District, before expressing an opinion; and I hope to meet the Presidents of North Arcot, Salem, and Combatore within the next fortnight, and then to report on the case of these three eastern Districts.

Later

3 Later on, I shall consult with the Presidents of the Malabar, Nilgiri and South Canara Districts, the pre-requirements of which must differ considerably from those to the east of the Ghauts; and will report on each of them as soon as possible.

I have the honor to be,

Sir,

Your Most Obt. Servant.

P. Beatty - Col. R.E.

Supg. Engr. 4th Circle.

P.W. Ch. 7324

From
The Supdg. Engineer,
Fourth Circle.

Dated 23rd } August /83.
Despd. 24th }
Recd. 27

No. 341
With C. No. 7354

Local Fund Engineering Establishment:
Reporting regarding the — in each circle.

Compile
Cn 27/8

No. 1908

Superintending Engineer's Office,
5th Circle, Madras,
Chepauk, 21st August 1883.

From
The SUPERINTENDING ENGINEER,
5th Circle,

To
The Chief Engineer
P.W.D.

Sir,

Enclosures.

With reference to G.O. No. 2218 W dated 10th Instant, I have the honor to report that I expect to give, in next month, my opinion regarding the charges for Local Fund Establishments.

I have the honor to be
Sir
Your Most Obedt. Servt.
[signature] Coll. R.E.
Superintdg. Engr. 5th Circle

From P. W. C. No. 7190

THE SUPERINTENDING ENGINEER,

5TH CIRCLE,

To

THE Chief Engineer
P. W. D.

Dated 21st
Recd. 22 } August 1883.

ENCLOSURES.

With C. No. 7928

No. 1908

Local Fund Establishments — Reporting that his opinion regarding — will be given next month.

Combine in [illegible]

No. 1015 T.J

Supt. Engineer's Office, [illegible] Circle.
Kodaikanal. 20th August 1883.

From

The Superintending Engineer
6 circle.

To.

The Chief Engineer
P. W. D.

Sir,

With reference to G.O. No. 2218W dated 10th August/83, asking when I shall be in a position to report my opinion regarding Establishments in the different Local Fund Circles I have the honor to inform you that I hope to be able to do this by the end of November as of course I have to collect much information before I can report on the subject. I may mention that it is only now that I have received from the Board of Revenue Copies of the Budgets for 1883-84 which I applied for and now I have to get lists of the present establishments employed in the Circles.

I have the honor to be
Sir
Your most obedient servant

[illegible] Lt. Col. R.E.

Supt. Engineer, [illegible] Circle

P. W. C. No. 7274

From,

The Supt Engineer

6: Circle

To,

The Chief Engineer

P. W. D.

No. 1015 T.S

Dated 20: August/83

Recd. 24 "

Local Fund Esta-
-blishments-

states that his report in regard to — will be submitted by the end of the month.

Compile
CW
24/8

C/

No. 1743 C of 17th Septr/83 P. W. D.

Memo.

With reference to ~~G.O.~~ Finl. Deptt. memo. No. 1477 dated 4: August 1883, the undersigned has the honor to report as follows.

2. The Supdg. Engrs. Second & Third Circles state that they are in communication with the Presidents of the Local Fund Boards in their circles on the subject of G.O. Financial No. 1308 dated 27: June 1883, but they are unable to state when they will be able to furnish the required in-

G.O. 2218 W a/ 10-8-83
F.C 1744 C 17-9-83
information.

~~2~~3. The Supdg Engrs Fourth and Fifth Circles have submitted the reports called for, & these are now being transmitted to the Financial Dept.

~~3~~4 The Supdg Engr Sixth Circle states that he has much information to collect, & hopes to furnish the required report by the end of November –

~~4~~5. No reply has been received from the Supdg Engr First Circle, & a reminder has been sent to him.

C.J.
17/9

Cy

No 1743 C a/ 17-9-83

To the Finl Dept –
Seen
17/9 D.W.

Entd in Recpt Regtr

G.O. B 1934 W a/ 11-7-83
G.O. A 2143 W a/ 4-8-83
G.O. A 2218 W a/ 10-8-83
" 2436 W a/ 31-8-83

F.C
1745 C. 17-9-83

1883.

P. W. DEPARTMENT.

Current No. 7928-

From The S.E. Fifth Circle

No 2190

Dated 13-9-83

Received 14-9-83-

SUBJECT.

Furnishing certain information regarding Local Fund Engineering Establishments.

DISPOSAL.

No 1744C Dated 17th September/83

Transferred to the Financial Dept with reference to G.O. in that Department No 1308d/27th June 1883. (B.O)

/sd/ C.B.

Dyle

Desv

17/5

Ent in Receipt Regtr

7.C

1789 C 24.9.83

Cr

17/9

1883.

P. W. DEPARTMENT.

Current No. 7954

From The S.E. Fourth Circle

No 386.

Dated 13-8-83

Received 15-8-83

SUBJECT.

Reg: Local & Engineering Establishments forwarding 5 Statements showing present outlay on Works, cost of establishment & proposed maximum that may be sanctioned from Local funds

DISPOSAL.

No. 1745 C Dated 17th Septr/83

Transferred to the Financial Deptt in continuation of this office No 1744 C dated 17th September/1883

(B.O.)
/Sd/ C.B.
Dy. S.

Desw with
5 Encls

17/9

J.B. 21/9 Entd in Regst Bk

17/9

No 1745 C d/ 17-9-83
" 1744 C d/ do
" 1743 C d/ do
G.O. 2218 W d/ 10-8-83
" 1934 d/ 11-7-83

F.C.
2472 C. 11-12-83.

Cu

17/9

J.B. 21/9

1883.

P. W. DEPARTMENT.

Current No. 8090.

From The S.E. First Circle

No. 256 G.C

Dated 13-9-83

Received 21-9-83.

SUBJECT.

Reg: L.F. Engineering Establishments — Furnishing his opinion as regards the — as called for

DISPOSAL.

No. 1789C Dated 24th Septr/83.

Transferred to the Financial Deptt in continuation of this Office No. 1745-C dy 17th Septr 1883

(B.O)

/ 20/ CB

Dyle

DCW

24/9

17/9

Jon/9

Entd in Recpt Register Jnb/9/9

No. 1789 C dy 24-9-83.
" 1745 C dy 17-9-83.
" 1744 C dy do
" 1743 C dy do
G.O. 2218 W dy 10-8-83
" 1934 W dy 11-7-83.

7 C / 246 C 2.2.84

1883.

P. W. DEPARTMENT.

Current No. 10910-

From The S.E. Second Circle

No. 342 G.L.

Dated 28-11-83

Received 8-12-83.

SUBJECT.

L. F. Engineering Establishments in Masulipatam, Guntur & Nellore Circles – reporting on the cost of –

DISPOSAL.

No. 2473 C Dated 11th Decr/83

Transferred to the Financial Department in continuation of this office No. 1789 C dy 24th Septr 1883

(B.O.)

/s d/ b.B.

D.W.

Entd in Recpt Regr

No. 2473 C dy 11-12-83
No. 1789 C dy 24-9-83
No. 1744 C dy 17-9-83
" 1745 C dy do
" 1743 C dy 17-9-83
G.O. A 2218 W dy 10-8-83
" B 1934 W dy 11-7-83

17/9

Cr 17/9

1884.

P. W. DEPARTMENT.

Current No. 802

From The S. E. VI Circle

No 2120 TJ

Dated 26-1-84

Received 30-1-84

SUBJECT.

Reporting on the Local Fund Engineering Estts.

DISPOSAL.

No. 246 C Dated 2nd February /84

Transferred to the Financial Depart in continuation of Endorsement No. 2473 C dated 11th Decr 1883

(sd) J. S. S.

W

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

Read—again G.O., dated 27th June 1883, No. 1308, Financial.

Read—also the following papers :—

No. 1743-C.

MEMORANDUM.

With reference to Financial department memorandum, No. 1477, dated 4th August 1883, the undersigned has the honor to report as follows.

2. The Superintending Engineers, II and III Circles, state that they are in communication with the Presidents of the Local Fund boards in their circles on the subject of G.O., Financial, No. 1308, dated 27th June 1883, but they are unable to state when they will be able to furnish the required information.

3. The Superintending Engineers, IV and V Circles, have submitted the reports called for, and these are now being transmitted to the Financial department.

4. The Superintending Engineer, VI Circle, states that he has much information to collect, and hopes to furnish the required report by the end of November.

5. No reply has been received from the Superintending Engineer, I Circle, and a reminder has been sent to him.

(By order.)

Madras,
17th September 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Financial department.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works department, dated Bangalore, 13th September 1883, No. 2190.

With reference to G.O., No. 1934 W., dated the 11th July 1883, I have the honor to report that, in the Chingleput circle, the average cost of the Local Fund Engineering establishment in four years is rather below 14 per cent. of the expenditure on works. Two years ago the charge was $15\frac{1}{2}$ per cent., and the expected charge for the current year is 13·6 per cent. I am of opinion that 15 per cent. may fairly be taken as a limit for the proportion of outlay on establishment to outlay on works.

2. In South Arcot for the three past years, the average cost of establishment has been 12·8 per cent. of the expenditure on works, and the actual charge in 1882-83 was 15 per cent. But in 1881-82, the outlay on works was Rs. 2,38,637, while for the current year the expected outlay is no more than Rs. 1,50,567. Consequently the establishment charges which have increased in the two years are 17·6 per cent. of the outlay contemplated in the present year.

3. Thus the establishment appears to have outrun the funds available for works. But in G.O., Financial department, No. 1539, of the 19th July 1883, paragraph 3, the board were asked if the estimate of land-cess revenue might not be raised by Rs. 30,000. If this amount were added to the sum available for works, the establishment charges would then be 14·6 per cent. of the funds for works. Again, if the existing establishment had as much money to spend as in 1881-82, the establishment would cost only 11·1 per cent. of the charges for works.

Revenue Board, No. 2319, dated 10th August 1883.

4. Owing to unfavorable seasons and arrears, the funds to be spent on works appear to be now in a depressed condition, and 18 per cent. must be taken as proportion of outlay on establishment to that on works for the present year. But in more favorable times, there appears to be no reason why the charges should not as a rule be kept within 15 per cent.

No. 1744-C.

Endorsement on the above.

Transferred to the Financial department, with reference to G.O. in that department, No. 1308, dated 27th June 1883.

(By order.)

Chepauk, 17*th September* 1883.

(Signed) C. BOWEN, Major, R.E.,
Under Secy. to Govt., P.W.D.

From Colonel S. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works department, dated Coimbatore, 13th September 1883, No. 386.

With reference to G.O., No. 1934, of 11th July 1883, I have the honor to forward, herewith, five statements showing for the Local Fund circles * the probable expenditure on works, the present outlay on establishments, and what I would consider a reasonable maximum within which any increase asked for by the Local Fund boards might be sanctioned.

* Coimbatore circle.
Salem do.
Hosúr do.
Vellore do.
Chittoor do.

2. The establishments are at present, especially in North Arcot, on a very moderate scale, and I anticipate that it will be found in the course of time convenient to increase them. My proposals show what I consider would be sufficient establishments on such pay as would secure the services of properly-qualified men. At present in some circles overseers only draw Rs. 20 a-month, which is less than has to be given to good maistries in this department.

3. The expenditure on works has been fixed with reference to that of recent years, and will be reduced if light railways are sanctioned for any districts, as funds must be found for such works by reducing the outlay on roads and buildings. In that case the outlay on establishments will have to be proportionately reduced.

Enclosures.

Coimbatore Circle—10 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,84,000
Present establishment at 13·3 per cent.	24,515
Proposed maximum at 17 per cent.	21,200

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	400	..	1	500	..
Supervisors	300	..	3	450	..
Overseers	330	..	10	600	..
Sub-overseers	310	..	..	..	..
	1,340	16,080	..	1,550	18,600
Office establishment ..	300	3,600	..	400	4,800
Travelling allowance ..	440	5,280	..	650	7,800
Total ..	2,080	24,960	..	2,600	31,200

Salem Circle—5 *Taluks*.

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,09,000
Present establishment at 11·8 per cent.	12,815
Proposed maximum at 18·4 per cent.	19,920

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	500	..	1	500	..
Supervisor	..	..	1	150	..
Overseers	355	..	6	360	..
Sub-overseer	25	..	..	..	..
	880	10,560	..	1,010	12,120
Office establishment ..	240	2,880	..	250	3,000
Travelling allowance ..	240	2,880	..	400	4,800
Total ..	1,360	16,320	..	1,660	19,920

Hosur Circle—3 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	38,300
Present establishment at 13·1 per cent.	5,020
Proposed maximum at 22 per cent.	8,460

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	200	..	1	200	..
Overseers	180	..	3	180	..
	380	4,560	..	380	4,560
Office establishment ..	68	816	..	100	1,200
Travelling allowance ..	173	2,076	..	225	2,700
Total ..	621	7,452	..	705	8,460

Vellore Circle—4 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	70,300
Present establishment at 13 per cent.	10,485
Proposed maximum at 19·1 „	13,440

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	250	..
Supervisor	..	..	1	150	..
Overseers	..	..	4	240	..
	661	*8,035	..	640	7,680
Office establishment ..	250	*2,977	..	160	1,920
Travelling allowance ..	..	..	..	320	3,840
Total ..	..	11,012	..	1,120	13,440

Particulars of the establishment have not been furnished by North Arcot.

* Inclusive of travelling allowance.

Chittoor Circle—5 *Taluks.*

Statement showing the present outlay on works, cost of establishment and proposed maximum that may be sanctioned from Local funds.

	Rs.
Probable annual expenditure	1,32,000
Present establishment at 11 per cent.	13,661
Proposed maximum at 16·4 per cent.	21,660

——	Present establishment.		Number.	Proposed maximum.	
	Per month.	Total per annum.		Per month.	Total per annum.
	Rs.	Rs.		Rs.	Rs.
Engineer	..	..	1	500	..
Supervisors	..	..	2	300	..
Overseers	..	..	5	300	..
	893	10,713	..	1,100	13,200
Office establishment ..	368	4,420	..	275	3,300
Travelling allowance ..	..	..	..	430	5,160
Total ..	..	15,133	..	1,805	21,660

Particulars of the establishment have not been furnished by North Arcot.

No. 1745-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1744-C, dated 17th September 1883.

(By order.)

Chepauk, 17*th September* 1883.

(Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From G. T. WALCH, Esq., Officiating Superintending Engineer, I Circle, to the Chief Engineer, Public Works department, dated Dowlaishweram, 13th September 1883, No. 256-G.L.

With reference to G.Os., Nos. 1934, 27th June 1883, and 2218 W., 10th August 1883, I have the honor to say that as I have nothing to do with the working of the Local Fund establishment, I do not see how to arrive with any degree of certainty at what is a fair proportion for the outlay on such establishments to outlay on "works" in the Local Fund circles in the districts comprised in this Department of Public Works circle.

2. Considering, however, the simple character of most of the work done, admitting of the employment of chiefly low paid subordinates, I think that, from about 20 per cent. in the Godávari district to 25 per cent. in the northern part of Ganjam, would be ample.

No. 1789-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1745-C, dated 17th September 1883.

(By order.)

CHEPAUK, *24th September* 1883.

(Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Major S. C. CLARKE, R.E., Officiating Superintending Engineer, III Circle, to the Chief Engineer, Public Works department, dated Bellary, 20th September 1883, No. 1743.

With reference to the G.O., Financial, No. 1308, of the 27th June, forwarded with your order thereon, No. 1934 W., of the 11th of July, I have the honor to state that, after perusing the statements obligingly supplied by the Collectors of Kurnool, Cuddapah, Anantapur and Bellary, regarding the numerical strength of their several Local Fund Engineering establishments, and the extent of the circles to be supervised, I have come to the conclusion that 20 per cent. on the average annual outlay on the works of each district might be fixed as the minimum proportion of cost of establishment to outlay incurred, and 25 per cent. as the maximum which it might periodically arise to, from incidental causes.

2. From the statement drawn up from the information afforded by the several district officers, it will be seen that the first three Local Fund circles have been administered within the maximum rate laid down, and, as far as I am able to judge, the said establishment charges would appear to be equitable.

	Percentage
Kurnool	21
Cuddapah	20
Anantapur	15
Bellary	30

3. Whether or not the establishment of executive staff should be increased is a difficult matter to decide, but I presume that each Executive Engineer should be able to show some good reason for applying for additional assistance.

4. Both the Bellary and Anantapur circles employ a supervisor to assist the Executive Engineer, which arrangement is essential in my opinion, for I do not think that any executive officer, however active he may be, can, single-handed, even with the aid of a number of lower subordinates, efficiently supervise his district, within which there are upwards of 800 miles of roadway to maintain in order.

5. The other two districts apparently manage to carry on work under the supervision of one executive officer, with several sub-overseers to assist, but no provision is thereby made for supplying, even temporarily, the post of the executive officer.

No. 1794-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

CHEPAUK, *24th September* 1883.

(Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From J. W. RUNDALL, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works department, dated Bezváda, 28th November 1883, No. 342 G.L.

I have the honor, with reference to G.O., No. 1934 W., of the 11th July, forwarding G.O., No. 1308, Financial, of the 27th June 1883, in which Superintending Engineers are directed to inquire into the amount of establishment required in each Local Fund circle, I have the honor to state that I have obtained statements from the Presidents of the Masulipatam, Guntúr and Nellore boards, comprised within this circle, but I find it very difficult to express an opinion as to what should be the normal allowance for superintendence, as I have no means of judging to what extent the establishment are employed in getting out estimates for future work.

2. I believe, however, that, in the Masulipatam and Guntúr circles, no large estimates, requiring special establishment, are in preparation, and that the whole establishment are therefore engaged on construction and repairs.

3. I find from the statements sent me that in the Masulipatam circle the cost of supervision has been as follows:—

	Per cent.
In 1880-81	14·15
„ 1881-82	11·39
„ 1882-83	18·40

For the first two years it was moderate; there was I believe an accumulated balance in the first 2 years, and that as a rule the annual expenditure on works in this circle will be about Rs. 1,50,000. The present expenditure on establishment is stated to be about Rs. 27,500, and is therefore moderate. The Local Fund Engineer states that a recent proposal to strengthen his office by an additional clerk was made. This was supported by the circle board and the President, but negatived by the Revenue Board.

4. As regards the Guntúr circle, the percentage in previous years has not been communicated, but I find that in 1882-83, the percentage of establishment on outlay was 11·12 per cent. which is very moderate. The Vice-President states that the Local Fund Engineer's office is unable to cope with the work, and urges that two additional clerks on Rs. 35 and 20 be sanctioned. This proposal is supported by the circle board and the President.

5. As regards the Nellore circle, details have been furnished only for 1882-83. The sum expended on works in this year was Rs. 1,48,649, and the expenditure on establishment amounted to Rs. 30,982, equal to nearly 21 per cent. on the expenditure. The expenditure was moreover short of the allotment by Rs. 65,000 showing that the large establishment employed did not turn out as much work as should have been done. On examining the details of establishment employed in this circle, I find that though the Local Fund Engineer draws a small salary (Rs. 400 per mensem) yet there are two Assistant Engineers on Rs. 250 each. There are also 13 overseers. This number may be necessary, as the circle is a large one, comprising the whole district, but I should have thought that two officers of the supervisor grade, on Rs. 150 rising to Rs. 200, would have sufficed as assistants to the Local Fund Engineer.

6. As regards office establishment, the President states that the staff of clerks in the Local Fund Engineer's office is insufficient, and that for the present two clerks from the Assistant Engineer's offices, on Rs. 20 per month, have been transferred to the Local Fund Engineer's office. From the President's note it would appear that the same numerical strength has been allowed in the offices of the Local Fund Engineer and the Assistant Engineers. This would appear to be a mistake, as I conclude only initial accounts are made out in the sub-divisional offices.

7. Probably Rs. 2,500 a-year would be saved, in the first instance, by employing two supervisors instead of two Assistant Engineers in this circle.

No. 2473-C.

Endorsement on the above.

Transferred to the Financial department in continuation of this office No. 1789-C, dated 24th September 1883.

(By order.)

Chepauk, 11*th December* 1883. (Signed) C. BOWEN, Major, R.E., *Under Secy. to Govt., P.W.D.*

From Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works department, dated Negapatam, 26th January 1884, No. 2120-T.J.

With reference to G.O., No. 1934 W., dated 11th July 1883, in which I am instructed to make inquiries and report my opinion as to the proportion which the outlay on establishment of the Local Fund boards should bear to the total outlay on works, I have the honor to bring to your notice that the present establishments in the different circles vary so much in class, pay, and numbers. I am unable to make any definite proposal or give more than a general opinion on the matter.

Two statements.

2. I forward two statements, one showing the budget grants for works and establishments for this year in the seven Local Fund circles that exist in my so-called territory, and the other showing the details of the establishments. The percentage varies from 14·6 to 18·55 in 6 of the circles and is 26·7 in Dindigul; this last is simply because this circle, with a total grant of Rs. 54,000, have (or have allowed for) an Engineer on Rs. 400 a-month. If they were content to share an Engineer with Madura, as Shermádevi does with Tinnevelly, the percentage would be reduced to somewhat the same as the others.

3. With regard to establishments, each board, with, I suppose, the approval of the Board of Revenue and Government, has different ideas as to the arrangement best; there is no uniform scale of numbers, pay or class of their servants, and their works of course must be carried out in different ways in the different circles.

A reference to statement No. 2 shows that Tanjore and Negapatam, each with a grant of nearly Rs. 1,40,000, have each an Engineer on Rs. 400 a-month. Trichinopoly, Madura, and Tinnevelly have an expenditure of about Rs. 1,00,000; the two first have Engineers, on Rs. 500, the latter shares with Shermádevi (with an expenditure of Rs. 50,000) the services of an Engineer on Rs. 575, and Dindigul, with an expenditure a little over Rs. 50,000, has one on Rs. 400.

4. With regard to the lower ranks it is the same.

In Shermádevi there is a man called an Assistant Engineer on Rs. 175.

In four of the circles there are supervisors drawing Rs. 150 a-month, and in one a supervisor draws Rs. 100.

The overseers draw from Rs. 30 to Rs. 60, in one circle they all draw Rs. 60, in another all Rs. 50, and in two circles only is there the Rs. 30 grade.

In Tanjore district only there are so called sub-overseers on Rs. 20.

The same difference with regard to clerks, &c., will be found.

5. It is useless my attempting to lay down what establishment I consider should be adopted to each circle unless something of a uniform system is adopted for the Presidency. I am only to state generally that I consider the establishment should not cost more than 20 per cent. of the value of the work done.

6. The President of the Tanjore circles has kindly furnished me with a copy of a Local Fund Public Works Code that I believe is in force, but this chiefly refers to accounts, but does not lay down the duties of the different members of the establishment. I would urge that this should be done.

I regret to find that the forms and accounts are almost as intricate and elaborate as those of the Public Works Code. I think this might be modified with advantage.

7. I will further venture to add a short sketch of what I consider should be done with regard to establishments.

There should be only one Engineer in each district, his pay being divided when there are two circles according to the expenditure.

He should have a strong office at head-quarters in it; all plans and estimates should be made and all accounts be compiled into the forms required by the Account department. He should exercise general supervision and be the professional adviser of the Presidents and the boards.

There should be Assistant Engineers and Supervisors who should have charge of 2, 3 or more taluks; their duty will be to exercise supervision over the overseers, to check their accounts, measurements, &c., and also measure up important works themselves. Under the Engineer's orders they will give out the smaller contracts and make payments.

Overseers will have charge of a taluk or any group of roads or works. They will superintend all works in their charge, make petty payment, &c.

There will be a few sub-overseers in each circle to take charge of special works.

8. The pay of the Engineers to be Rs. 400 to 700.

Assistant Engineers	,,	200 ,, 300.
Supervisors	,,	100 ,, 150.
Overseers	,,	40 ,, 70.
Sub-overseers	,,	15 ,, 25.

All these should be placed in one list in classes, and if practicable increments to be given to them for good services. They should be liable for transfer from one circle to another as found advisable or for promotion.

The appointments of the Engineers, Assistant Engineers and Supervisors should rest with the Board of Revenue and not entirely with the Presidents of circles.

9. If a general scheme for all the districts and circles is decided on and the duties of all ranks laid down there will be no difficulty in laying down scales of pay, &c., for the different ranks and the establishment for the different circles; and if this is done I believe that the Local Fund boards will find their work better done and supervised than at present.

Enclosures.

VI *Circle.*

Statement showing the amount of allotments granted for 1883-84 for Local Fund works in the several Local Fund circles, and the percentage on the cost of Local Fund establishment.

District.	Local Fund circles.	New works under all heads.	Repairs under all heads.	Total.	Grant for Local Fund establishment.	Percentage of establishment on the total grant, column 5.	Grant for tools and plant.	Grant for contingencies.
1	2	3	4	5	6	7	8	9
		Rs.	Rs.	Rs.	Rs.		Rs.	Rs.
Tanjore	Tanjore	44,695	94,685	1,39,380	20,460	14·67	2,180	..
	Negapatam	89,220	47,900	1,37,120	22,760	16·59	2,200	250
Trichinopoly	Trichinopoly	20,540	74,950	95,490	16,500	17·27	2,000	720
Madura	Madura	10,100	94,800	1,04,900	15,700	14·96	2,830	1,270
	Dindigal	4,100	49,920	54,020	14,430	26·71	1,350	..
Tinnevelly	Tinnevelly	34,550	65,133	99,683	18,300	18·35	1,200	1,000
	Shermádevi	8,660	42,280	50,940	9,450	18·55	890	..

VI CIRCLE.

STATEMENT showing the numerical strength of the Local Fund Engineering establishment and their salaries, &c., as they stand in 1883-84 in the several Local Fund circles.

Establishment.	TANJORE DISTRICT.						TRICHINOPOLY CIRCLE.			MADURA DISTRICT.						TINNEVELLY DISTRICT.					
	Tanjore circle.			Negapatam circle.						Madura circle.			Dindigul circle.			Tinnevelly circle.			Shermádevi circle.		
1	2			3			4			5			6			7			8		
	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.	Number.	Rate.	Amount.
Engineer's office.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
Engineer																					
Assistant Engineer	1	400	400	1	400	400	1	500	500	1	500	500	1	400	400	1	575	* 575			
Accountant																			1	175	175
Second accountant	1	40	40	1	40	40	1	30	30	1	15	15	1	20	20	1	25	25			
Head clerk	1	30	30																1	20	20
Clerk	1	30	30																		
Do.				1	25	25	1	50	50	1	30	30	1	50	50	1	30	a 30			
Do.	3	20	60																		
Vernacular clerk							1	20	20	1	20	20							1	20	20
Draughtsman							1	15	15				1	15	15	1	10	10			
Peon	2	35	70	1	35	35	1	40	40	1	40	40	1	35	35	1	35	35			
Attender	1	8	8																		
Lascar	1	7	7																		
Do.	3	7	21	1	7	7															
				2	6	12	4	7	28	4	7	28	4	7	28	1	7	7			
																3	6	18	1	6	6
Executive office.			666			519			683			633			548			c 720			201
Supervisor	1	150	150	2	150	300	1	150	150	1	100	100				2	150	300			
Clerk	1	20	20	2	20	40	1	20	20							2	20	40			
Do.	1	15	15	2	15	30															
Draughtsman				1	25	25															
Lascar	2	6	12	4	6	24	2	6	12												
Overseer	1	60	60	5	60	300										2	6	12			
Do.	1	50	50				1	50	50	4	50	200	2	60	120	3	60	180	1	60	60
Do.													1	50	50						
Do.	3	40	120				1	40	40							3	45	135	2	45	90
Sub-overseer							3	30	90												
Clerks to overseers	5	20	100	5	20	100							1	30	30						
Lascar	5	15	75	5	15	75	5	15	75	4	15	60	4	15	60						
	5	6	30	5	6	30	5	6	30	4	6	24	4	6	24	6	6	36	3	6	18
Cavalgar							1	6	6									c { 170			
Travelling allowance, contingencies, &c.			407			454			219			292			b 371			{ 230			120
																					489
Total per mensem			1,705			1,897			1,375			1,309			1,203			1,823			5,868
Total per annum			20,460			22,760			16,500			15,700			14,430			21,876			
Deduct one-third share of Rs. 10,680 *d*, being the salary and travelling allowance of the Engineer officer and his office establishment due to Shermádevi circle.																		3,560			
																		18,316			5,868
Add the do. do.																					3,560
Total as entered in budgets in round numbers.			20,460			22,760			16,500			15,700			14,430			18,300			9,450

* Average for a month, the rate of salary being Rs. 550 for the first six months, and Rs. 600 for the other six months.

a This is to be increased hereafter—*vide* paragraph 2 of the President's letter, No. 689, of 15th September 1883.

b Includes hill battas for the Engineer and his establishment, and also office-rent and printing charges.

c 720 salary of Engineer and his establishment.

c 170 travelling allowance and his establishment.

890
12
1,780
890

d 10,680

No. 246-C.

Endorsement on the above.

Transferred to the Financial department, in continuation of endorsement, No. 2473-C, dated 11th December 1883.

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

1*st February* 1884.

To the Financial department.

ORDER—dated 24th April 1884, No. 878, Financial.

In June 1883 the Government directed the Public Works department to report on the proportion which the outlay on Local Fund Engineering establishments should bear to the total outlay on works.

G.O., dated 27th June 1883, No. 1308.

2. The opinions of the Superintending Engineers on the point are recorded in the papers read above. The general opinion appears to be that the existing Local Fund establishments are numerically weak, and that while it is unadvisable to lay down an uniform scale for the whole Presidency 20 per cent. of the expenditure on works may be accepted as the maximum sum to be expended on establishments. These views commend themselves to the Government, but it must at the same time be clearly understood that establishments are not to be framed on one model irrespective of local requirements and circumstances, or too much value attached to comparisons which are not based on a series of years, and which perhaps include abnormal or exclude normal expenditure.

3. With these remarks the Government remit the question for the consideration of the several Local Fund boards in view to their submitting for approval statements showing the strength and cost of the Engineering establishments that they would propose to employ.

(True Extract.)

Chief Secretary.

To all Local Fund boards, through Board of Revenue.
„ the Public Works department.

Exd. J. Wright.

Memo No. 246 C d/ 2-2-84
" " 2173 C d/ 11-12-83
" " 1789 C d/ 24-9-83
" " 1745 C d/ 17-9-83
" " 1744 C d/ 17-9-83
G.O. No. 1743 C d/ 17-9-83
" " 221 8 W d/ 10-8-83
" B/M 1934 W d/ 11-7-83

No: 1270 Wd/ 21st May, 84

Recorded

Recorded

14-5-84

16-5-84

21/5

Supdg. Engrs

Supdg Engrs

Exr. P. W. A.

Exr P W A

P.S.S. 44/5. 28/5 29/5 30/5

14/5/84 19-5-84

Pach 4051

Govt. of (1884) Madras.

FINANCIAL.

9 S C

9 S.C.

Requisition sent for 4 S.C 19/5/84

Issued

Recd. 13/5/84 *Encl.*

G.O., 24th April 1884, No. 878.

No: 1270 Wd/ 21-5-84

APRIL.

Local Fund Engineering Establishments.

Directing the several Local Fund boards to submit statements showing the strength and cost of the — they would propose to entertain, with a view to their re-organization.

2 copies sent to O.O.G.

With order

Superintending Engineer