

(1) Number of pages 20
(2) Date of repair 25.8.86
(3) Initials of the Referencer lons

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public works DEPARTMENT

G.O. No.	3652 W	Press.
B.P. No:		Mis.
Dated	16-9-1978	1978.

3.6.77 ✓

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3652
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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

16th September 1878, No. 3,652 W.

General.
Establishment.

Read the following paper:—

No. 180. Proceedings of the Board of Revenue, dated 21st August 1878, No. 2,357.

Read the following letter from W. LOGAN, Esq., Collector of Malabar, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Calicut, 31st July 1878, No. 218.

I HAVE the honor to submit my report on the expenditure incurred on Public Works in this district during the past official year 1877-78.

2. The subjoined statement exhibits the actuals of expenditure for the year under report and for each of the previous five years arranged according to the sources from which the funds were derived and also the variations between the figures of the last two years and the percentage of expenditure with reference to allotment:—

	EXPENDITURE IN						Difference between figures of 1876-77 and 1877-78.	Allotment 1877-78.	Percentage expenditure allotments 1877-78.
	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.			
1. Imperial Funds.	Rs. 32,047	Rs. 32,773	Rs. 73,572	Rs. 77,101	Rs. 33,693	Rs. 37,583	Rs. 3,890	Rs. 35,240	106.65
2. Provincial do.	55,361	33,622	35,084	32,614	40,261	35,621	-4,640	38,477	92.57
3. Local do.	3,01,153	3,47,944	3,48,127	3,17,881	2,13,455	2,06,271	-7,184	1,71,780	120.08
Total ..	3,92,571	4,14,339	4,61,783	4,27,596	2,87,419	2,79,475	-7,944	2,45,497	106.43

3. The above statement shows a very large falling off in the past six years expenditure. While Imperial expenditure has remained about the same, there has been a falling off in allotments of Provincial Funds and a very great falling off of Local Funds. The withdrawal of Provincial grants to Local Funds fully accounts for this.

4. PROVINCIAL AND IMPERIAL FUNDS.—The following abstract statement shows the expenditure from Provincial and Imperial Funds on new works and repairs for the year under review as well as that of the previous five years:—

Heads.	EXPENDITURE IN						VARIATION BETWEEN 1876-77 AND 1877-78.	
	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	Increase.	Decrease.
Irrigation. New Works.	Rs. 1,819	Rs. 1,783	Rs. 1,829	Rs. 1,767	Rs. 2,099	Rs. 2,227	Rs. 128	Rs. ..
Repairs ..	..	5,510	1,871	4,399	..	..	..	..
Communications. New Works.	..	..	6,136	2,883	1,947	2,000	53	..
Repairs ..	52,274	31,796	67,744	70,530	41,012	39,752	..	1,258
Buildings. New Works.	26,989	21,785	23,861	25,779	25,387	24,549	..	788
Repairs ..	..	..	..	..	..	..	..	..
Total or. By P.W.D. expenditure.	82,911	61,905	1,01,441	1,04,968	70,395	68,528	211	2,073
By R.D. ..	5,497	4,490	12,215	4,727	3,559	4,075	1,117	..
Grand Total ..	88,408	66,395	1,13,656	1,09,715	73,954	72,604	1,323	2,073

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Repairs ..	..	5,510	1,871	4,399	..	..	..	..
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Repairs ..	..	..	..	..	..	..	..	..
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By R.D. ..	5,497	4,490	12,215	4,727	3,559	4,075	1,117	..
Grand Total ..	88,408	66,395	1,13,656	1,09,715	73,954	73,204	1,323	2,073

5. It will be seen from the above statement that the amount spent by the professional department during the year was Rupees 68,528 against Rupees 70,395 of the preceding year. The decreased outlay observable of Rupees 1,867 calls for no special remark. The expenditure under each head of work will be noticed below:—

6. *Irrigation—New Works.*—Expenditure nil.

7. *Irrigation—Repairs.*—The charges under this head amounted to Rupees 2,227 against Rupees 2,069 of the preceding year and represent the cost of annual repairs to the Veatil and Enamakal dams. The gradual and steady increase of these repair charges, as exhibited in the above statement, merits consideration. I am not aware of any reason why the repairs should be now more expensive than they used to be, except perhaps that the Range Officer has double as much work or more than he can do and is unable to supervise the expenditure properly.

8. *Communications—New Works.*—No new works of this description were undertaken during the year.

9. *Communications—Repairs.*—A sum of Rupees 2,000 was disbursed during the year to meet the cost of emergent repairs to the Karkur ghaut road.

10. *Buildings—New Works.*—This head of charge exhibits an expenditure of Rupees 39,752 against an outlay of Rupees 41,042 incurred in 1876-77. The decrease in expenditure is too trifling to demand special notice.

11. Such of the new works of any magnitude undertaken or continued during the year with the year's outlay on each are noted in the margin. Items Nos. 1 and 8 were commenced and completed during the year at the cost noted opposite to them against estimates of Rs. 13,930 and Rupees 1,900, respectively. Item No. 2 was begun in the year and was almost completed. The amount provided for the work is Rupees 3,970. Item No. 3 was all but completed at the year's close. No. 4, the Deputy Collector's Office at Manantoddy, was at last completed. The history of this building would be instructive if it could be written in detail. It has taken seven years to build; the original estimate was only Rupees 17,440; the total outlay came to Rupees 21,964; there can be no doubt that half or at most three-fourths of that sum should have sufficed to complete it.

Works Nos. 5, 6, and 7 were continued from the last year and have been completed in that under report at an outlay of Rupees 4,143, 5,919, and 1,376, respectively, against estimates of Rupees 4,120, 5,500, and 1,450, respectively.

12. *Buildings—Repairs.*—The outlay under this head amounted to Rupees 21,549 during the year, and considered with reference to the expenditure of the preceding year shows a slight decrease of Rupees 788.

13. *Petty Construction and Repairs.*—The expenditure incurred by the Revenue Department during the year amounted to Rupees 4,676, and compared with the charges of the previous year exhibit an increase of Rupees 1,117 and a decrease of Rupees 24 on the sanctioned estimate of the year.

14. *Local Funds.*—Subjoined is a statement exhibiting the expenditure incurred in the district from Local Funds for the past year as well as the preceding five years:—

EXPENDITURE IN							VARIATIONS BETWEEN THE FIGURES OF 1876-77 AND 1877-78.	
	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	In-crease.	De-crease.
<i>Calicut Circle.</i>								
Communications—By P.W.D.	94,017	93,070	1,06,702	75,025	23,237	14,047	..	8,290
—New Works—By O.A.	3,080	..	39	..	..	139	139	..
Communications—By P.W.D.	93,278	1,17,225	1,07,937	1,14,070	92,739	95,882	3,143	..
—Repairs—By O.A.	5,919	..	14,892	8,042	4,734	9,596	5,262	..
Educational—By P.W.D.	..	1,060	247	134	..	..	..	..
—New Works—By O.A.	20	..	950	..	..	..	..	..
Educational—By P.W.D.	..	1,817	..	238	..	..	..	..
—Repairs—By O.A.	541	..	1,309	1,215	1,058	932	..	126
Sanitation—By P.W.D.	338	2,815	7,381	6,113	..	371	371	..
—New Works—By O.A.	902	..	62	..	..	..	..	..
Sanitation—By P.W.D.	1,302	..	742	..	..	..	..	..
—Repairs—By O.A.	820	4,084	2,976	1,817	2,107	1,796	..	311
Total ..	2,03,217	2,25,391	2,43,227	2,06,554	1,23,875	1,24,063	8,915	8,727
<i>Tellicherry Circle.</i>								
Communications—By P.W.D.	39,797	52,532	36,580	47,740	30,719	17,634	..	13,078
—New Works—By O.A.	150	..	..	..	..	1,114	1,114	..
Communications—By P.W.D.	57,438	65,86	65,293	69,604	65,737	60,282	4,525	..
—Repairs—By O.A.	400	..	202	1,300	1,637	1,289	..	357
Educational—By P.W.D.	1,137	2,381	1,035	544	..	..	..	..
—New Works—By O.A.	278	..	..	..	..	..	..	..
Educational—By P.W.D.	..	497	187	..	..	..	..	..
—Repairs—By O.A.	..	..	..	164	192	204	12	..
Sanitation—By P.W.D.	977	65	181	977	66	..	..	66
—New Works—By O.A.	150	..	..	..	..	..	..	..
Sanitation—By P.W.D.	419	1,052	1,442	..	264	431	167	..
—Repairs—By O.A.	205	..	..	998	964	1,263	299	..
Total ..	1,00,946	1,22,453	1,04,900	1,11,327	89,590	82,298	6,117	13,499
Grand Total ..	2,04,163	3,47,844	3,48,127	3,17,881	2,13,465	2,06,271	15,032	22,226
Net ..	..	..	..	..	..	..	..	7,194

15. It will be seen from the above that the total sum spent in both the Calicut and Tellicherry Circles during the year amounted to Rupees 2,06,271 and compared with the outlay of 1876-77 resulted in a net decrease of Rupees 7,194. This decreased expenditure is attributable to the limited resources of the Local Funds. The withdrawal of Provincial grants to Local Funds has diminished expenditure by fully a lakh of Rupees. Communications and bridges more especially have suffered greatly.

16. *Communication—New Works.*—Under this head there was in both the circles an aggregate expenditure of Rupees 33,834, which falls short of the previous year's outlay by Rupees 20,113. Owing to want of funds all expenditure on New Works, except what was absolutely necessary and except what was being carried out with loan funds, was stopped. The works on which any considerable outlay was incurred during the year are enumerated below:—

	RS.
1. Tambereherry ghaut and road	10,623
2. Peria ghaut and road to Mysore frontier	9,659
3. Korothe to Peria road	3,282
4. Renewing superstructure of Nuradi bridge	2,996
5. Road from Taliparamba to Irkur	2,729
6. Bridges and culverts on Teriot road	1,964

Of these No. 4 has been completed during the year and the others are in progress.

17. *Communications—Repairs.*—Under this head there was spent during the year a sum of Rupees 1,67,440. Compared with the previous year's actuals it exhibits an increase of Rupees 12,573, which was mainly caused by the unusually heavy traffic the roads had to bear owing to the carriage of food-grains and other articles of consumption during the pressure of the famine.

18. *Educational—New Works.*—Nil.

19. *Educational—Repairs.*—A sum of Rupees 1,136 was spent under this head during the year, of which Rupees 932 appertain to the Calicut and the balance to the Tellicherry Circle. It represents the cost of annual repairs to thirty-eight elementary and middle-class schools.

20. *Sanitation—New Works.*—A sum of Rupees 371 was spent under this head in the construction of a dead-house for the Vythry Hospital.

21. *Sanitation—Repairs.*—During the year a sum of Rupees 3,490 were expended in repairs to twenty-five bungalows, sixteen musaferkhanas, five chuttrams, and five bandy-stands.

22. *General Comparative Statement.*—Annexed is a comparative statement of expenditure from all sources incurred during each of the past four years classified according to the objects on which spent:—

	1874-75.	1875-76.	1876-77.	1877-78.
Irrigation ...	RS. 1,829	RS. 1,707	RS. 2,063	RS. 2,227
Communication ...	3,39,632	3,13,663	2,19,761	2,03,274
Buildings ...	1,03,820	1,01,026	69,938	63,977
Education ...	3,723	2,995	1,250	1,136
Sanitation ...	12,774	8,905	3,401	3,861
Total ...	4,61,783	4,27,596	2,87,419	2,79,475

23. The aggregate expenditure during the year on all kinds of public works in this district was for—

1. New Works	RS. 73,957
2. Repairs	2,05,518
Total ...	2,79,475

24. The prescribed statements are herewith submitted.

25. In conclusion I have to remark on the working of the department; that, first, it was greatly undermanned in the year under report. There are six ranges in the district, but only three Range Officers have been in charge of them. Each Range Officer has therefore had to do double duty. This arrangement was most unfair to all concerned. In the next place the organization of the department is all wrong. What is required above all things in carrying out public works is allocation of responsibility. At present it is almost impossible to say who is responsible for errors in execution of works. The District Engineer is nominally responsible of course, but as he has 6,000 odd square miles of a district he may not have even seen the work while in process of execution. So, too, with the Range Officer; he has 400 to 500 or 600 miles of road besides odd jobs in all directions scattered over his range; it is clear that he cannot be in attendance on all his works at once. The Overseer in the same way has a whole taluk to look after with works lying at distances of 20 or 30 miles apart; he, too, cannot be always present to check irregularities in the execution of works by mairies and coolies. So responsibility finally rests with mairies and coolies, and it is needless to point out that those are just the persons on whom in the generality of cases responsibility should not rest. It follows that the present organization by ranges and taluks does not work well, and I fully believe that by a different system work would be not only better done but more cheaply. It is notorious that work can be done and done well at rates far below what are charged by the Public Works Department, but then, of course, the supervision exercised is far more close and thorough. In the building of a bridge for instance the selection

and laying of every stone is a matter of importance, and the department should be so organized that it would be possible to depute an officer of undoubted experience to be present when each such stone was selected and laid. At present that is impossible. I would not object to pay 50 per cent. or even more for supervision on an important work, but I do object to the payment of 25 per cent. for supervision when the supervision is frittered away in the manner in which it is done at present. Every monsoon brings its tale of bad workmanship in the collapse of rotten bridges, and so it will continue till the department is differently organized.

ENCLOSURES Nos. 1 and 2.—Statements.

SUBMITTED for the information of Government.

2. The percentage of outlay to allotments for Public Works in Malabar in 1877-78 was as under:—

Imperial ...	106.65
Provincial ...	92.57
Local ...	120.08

It thus appears that although the establishment is said to have been undermanned during the year, there is no room for complaint of short expenditure. No explanation is given of the large excess of expenditure over allotment for New Works, Local Funds. In the case of Repairs, Local Funds, it seems to be due to funds having been restricted by the withdrawal of the Provincial grant while the unusually heavy traffic in connection with the carriage of food-grains rendered expenditure on repairs absolutely imperative.

3. Mr. Logan's remarks in paragraph 7 regarding the steady increase of repair charges under irrigation, and the delay and excessive outlay in connection with the building of the Deputy Collector's Cutcherry at Manantoddy alluded to in paragraph 11 seem to call for attention. The limited resources of the Local Funds referred to in paragraph 15 have been met by an increase in the rate of land-tax from the commencement of the present fasli.

4. With reference to paragraph 25 of Mr. Logan's letter, the Board remark that the inadequacy of the department from its numerical deficiency to cope efficiently with the work it has to execute is well known to Government, and that it is hoped a remedy may be provided when its contemplated reorganization is carried into effect.

(A true Copy and Extract.)

(Signed) J. STURROCK,
Acting Sub-Secretary.

No. 181. ORDER THEREON, 16th September 1878, No. 3,652 W.

COMMUNICATED to the District Engineer, Malabar, who will explain why the charges for repairs to the Veatil and Enamakal dams should be steadily increasing. The Collector would appear not to have made any reference on this point to Colonel Kennedy. Had he done so, the necessity of the present reference would have been obviated.

2. Orders have already been passed on the subject of the Manantoddy Cutcherry. The several officers and subordinates who had to do with the building were undoubtedly responsible for the imperfect estimates and for part of the delay, but much of the expense and much of the delay which the Board of Revenue notice were also due to the causes detailed in Colonel Kennedy's letter of the 31st May 1875, recorded

6 PUBLIC WORKS DEPARTMENT, 16TH SEPTEMBER 1878, No. 3,652 W.

with G.O., No. 1,878, dated 3rd July 1875, for which the Public Works Department were not responsible.

3. With regard to the last paragraph of Mr. Logan's letter it is observed that the district cannot be manned as the Collector would have it under the coming or any reorganization, and that the non-permanency of bridges in Malabar is due in more cases to the exceptionally wearing climate, and the enormous rainfall in some localities, than to bad workmanship.

4. The allotments for the year have been well utilized by Colonel Kennedy and his subordinates, as the Board of Revenue remark, which is in itself a sufficient proof that the establishment is not so very much undermanned.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Govt., P.W.D.

(True Copy.)

Major, R.E.,
Under Secy to Govt., P.W.D.

To the District Engineer, Malabar.
" Revenue Department.
" Chief Engineer for Irrigation.

Exd. E. C. Shunker.
Spare Copies

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GOVT. OF INDIA

PUBLIC WORKS.

No. 2,357.

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Irrigation.	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...
New Works.	...	...	...	...	...	...	...	...
Repairs.	1,648	1,783	1,829	1,707	2,069	2,227	158	...
Communications.	...	...	...	...	...	...	...	...
New Works.	...	6,540	4,871	4,599	...	...	...	...
Repairs.	...	...	6,186	2,383	1,947	2,006	53	...
Buildings.	...	...	...	...	...	...	...	...
New Works.	52,374	31,798	37,744	70,520	41,042	32,752	...	1,290
Repairs.	25,939	31,786	23,861	25,779	25,337	24,549	...	789
Total expenditure.	...	...	...	...	...	...	...	...
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Works Nos. 5, 6, and 7 were continued from the last year and have been completed in that under report at an outlay of Rupees 4,143, 5,919, and 1,376, respectively, against estimates of Rupees 4,120, 5,500, and 1,450, respectively.

12. *Buildings—Repairs.*—The outlay under this head amounted to Rupees 24,549 during the year, and considered with reference to the expenditure of the preceding year shows a slight decrease of Rupees 788.

13. *Petty Construction and Repairs.*—The expenditure incurred by the Revenue Department during the year amounted to Rupees 4,676 and compared with the charges of the previous year exhibit an increase of Rupees 1,117 and a decrease of Rupees 24 on the sanctioned estimate of the year.

14. *Local Funds.*—Subjoined is a statement exhibiting the expenditure incurred in the district from Local Funds for the past year as well as the preceding five years:—

	EXPENDITURE IN						VARIATIONS BETWEEN THE FIGURES OF 1876-77 AND 1877-78.	
	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	Increase.	Decrease.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Calicut Circle.</i>								
Communications { By P. W.D. 94,017		99,070	1,06,703	75,025	23,237	14,947	...	8,990
—New Works { By O. A. ... 8,000			39	...	...	139	...	...
Communications { By P. W.D. 96,278		1,17,225	1,07,537	1,14,970	93,739	95,882	8,143	...
—Repairs { By O. A. ... 5,919			14,892	8,042	4,734	9,996	5,262	...
Educational { By P. W.D. ...		1,060	247	134	...	...	...	...
—New Works { By O. A. ... 20			950	...	...	...	...	...
Educational { By P. W.D. ...		1,817	...	238	...	...	...	...
—Repairs { By O. A. ... 541			1,809	1,215	1,058	932	...	126
Sanitation { By P. W.D. ... 338		2,315	7,381	5,113	...	...	371	...
—New Works { By O. A. ... 902			53	...	...	...	...	...
Sanitation { By P. W.D. ... 1,302		4,084	712	...	...	...	...	...
—Repairs { By O. A. ... 820			2,976	1,817	2,107	1,796	...	311
Total ...	2,03,217	2,25,391	2,43,327	2,06,554	1,28,875	1,24,083	8,915	8,727
<i>Tellicherry Circle.</i>								
Communications { By P. W.D. 39,797		52,593	36,560	47,740	30,710	17,634	...	13,076
—New Works { By O. A. ... 160			...	...	...	1,114	1,114	...
Communications { By P. W.D. 57,433		66,166	65,293	59,604	55,757	60,282	4,525	...
—Repairs { By O. A. ... 400			202	1,300	1,637	1,330	...	857
Educational { By P. W.D. ... 1,137		2,081	1,035	544	...	...	...	...
—New Works { By O. A. ... 278			...	...	...	...	...	...
Educational { By P. W.D. ...		497	137	...	192	204	12	...
—Repairs { By O. A. ...			...	134	66	...	...	66
Sanitation { By P. W.D. ... 977		65	181	977	...	...	...	...
—New Works { By O. A. ... 150			...	...	264	431	167	...
Sanitation { By P. W.D. ... 419		1,052	1,442	...	964	1,203	299	...
—Repairs { By O. A. ... 205			...	...	...	...	...	...
Total ...	1,00,946	1,22,453	1,04,900	1,11,327	89,590	82,208	6,117	13,492
Grand Total ...	3,04,163	3,47,844	3,48,127	3,17,881	2,18,465	2,06,271	15,032	22,226
Net ...	...	...	...	...	...	...	...	7,194

15. It will be seen from the above that the total sum spent in both the Calicut and Tellicherry Circles during the year amounted to Rupees 2,06,271 and compared with the outlay of 1876-77 resulted in a net decrease of Rupees 7,194. This decreased expenditure is attributable to the limited resources of the Local Funds. The withdrawal of Provincial grants to Local Funds has diminished expenditure by fully a lakh of rupees. Communications and bridges more especially have suffered greatly.

16. *Communication—New Works.*—Under this head there was in both the Circles an aggregate expenditure of Rupees 33,834, which falls short of the previous year's outlay by Rupees 20,113. Owing to want of funds all expenditure on new works except what was absolutely necessary and except what was being carried out with loan funds was stopped. The works on which any considerable outlay was incurred during the year are enumerated below:—

	RS.
1. Tanbercherry ghaut and road...	10,623
2. Peria ghaut and road to Mysore frontier...	9,659
3. Korothe to Peria road...	3,282
4. Renewing superstructure of Nuradi bridge...	2,996
5. Road from Taliparamba to Irkur...	2,729
6. Bridges and culverts on Teriot road...	1,964

Of these No. 4 has been completed during the year and the others are in progress.

17. *Communications—Repairs.*—Under this head, there was spent during the year a sum of Rupees 1,67,440. Compared with the previous year's actuals it exhibits an increase of Rupees 12,573, which was mainly caused by the unusually heavy traffic the roads had to bear owing to the carriage of food grains and other articles of consumption during the pressure of the famine.

18. *Educational—New Works.*—Nil.

19. *Educational—Repairs.*—A sum of Rupees 1,136 was spent under this head during the year, of which Rupees 932 appertain to the Calicut and the balance to the Tellicherry Circle. It represents the cost of annual repairs to thirty-eight elementary and middle-class schools.

20. *Sanitation—New Works.*—A sum of Rupees 371 was spent under this head in the construction of a dead-house for the Vythry Hospital.

21. *Sanitation—Repairs.*—During the year a sum of Rupees 3,490 were expended in repairs to twenty-five bungalows, sixteen musafirkhanas, five chuttrums, and five bandy-stands.

22. *General Comparative Statement.*—Annexed is a comparative statement of expenditure from all sources incurred during each of the past four years classified according to the objects on which spent :—

	1874-75.	1875-76.	1876-77.	1877-78.
	RS.	RS.	RS.	RS.
Irrigation	1,829	1,707	2,069	2,227
Communication	3,39,632	3,13,663	2,10,761	2,03,274
Buildings	1,03,820	1,01,026	69,938	68,977
Education	3,728	2,995	1,250	1,136
Sanitation	12,774	8,905	3,401	3,861
Total ...	4,61,783	4,27,596	2,87,419	2,79,475

23. The aggregate expenditure during year on all kinds of public works in this district was for—

1. New Works	RS. 73,957
2. Repairs	2,05,518
Total ...	2,79,475

24. The prescribed statements are herewith submitted.

25. In conclusion, I have to remark on the working of the department that first it was greatly undermanned in the year under report. There are six ranges in the district, but only three Range Officers have been in charge of them. Each Range Officer has therefore had to do double duty. This arrangement was most unfair to all concerned. In the next place the organization of the department is all wrong. What is required above all things in carrying out public works is allocation of responsibility. At present it is almost impossible to say who is responsible for errors in execution of works. The District Engineer is nominally responsible of course, but as he has 6,000 odd square miles of a district he may not have even seen the work while in process of execution. So too with the Range Officer; he has 400 to 500 or 600 miles of road besides odd jobs in all directions scattered over his range; it is clear that he cannot be in attendance on all his works at once. The Overseer in the same way has a whole taluk to look after with works lying at distances of 20 or 30 miles apart; he too cannot be always present to check irregularities in the execution of works by maistries and coolies. So responsibility finally rests with maistries and coolies, and it is needless to point out that those are just the persons on whom in the generality of cases responsibility should not rest. It follows that the present organization by ranges and taluks does not work well, and I fully believe that by a different system work would be not only better done but more cheaply. It is notorious that work can be done and done well at rates far below what are charged by the Public Works Department, but then, of course, the supervision exercised is far more close and thorough. In the building of a bridge for instance the selection

and laying of every stone is a matter of importance, and the department should be so organized that it would be possible to depute an officer of undoubted experience to be present when each such stone was selected and laid. At present that is impossible. I would not object to pay 50 per cent. or even more for supervision on an important work, but I do object to the payment of 25 per cent. for supervision when the supervision is frittered away in the manner in which it is done at present. Every monsoon brings its tale of bad workmanship in the collapse of rotten bridges, and so it will continue till the department is differently organized.

ENCLOSURES Nos. 1 and 2.—Statements.

SUBMITTED for the information of Government.

2. The percentage of outlay to allotments for Public Works in Malabar in 1877-78 was as under :—

Imperial	606.65
Provincial	92.57
Local	120.08

It thus appears that although the establishment is said to have been undermanned during the year, there is no room for complaint of short expenditure. No explanation is given of the large excess of expenditure over allotment for new works, Local Funds. In the case of repairs, Local Funds, it seems to be due to funds having been restricted by the withdrawal of the Provincial grant while the unusually heavy traffic in connection with the carriage of food grains rendered expenditure on repairs absolutely imperative.

3. Mr. Logan's remarks in paragraph 7 regarding the steady increase of repair charges under irrigation, and the delay and excessive outlay in connection with the building of the Deputy Collector's Cutcherry at Manantoddy alluded to in paragraph 11 seem to call for attention. The limited resources of the Local Funds referred to in paragraph 15 have been met by an increase in the rate of land-tax from the commencement of the present fiscal.

4. With reference to paragraph 25 of Mr. Logan's letter, the Board remark that the inadequacy of the department from its numerical deficiency to cope efficiently with the work it has to execute is well known to Government, and that it is hoped a remedy may be provided when its contemplated reorganization is carried into effect.

(A true Copy and Extract.)

J. Sturwell
Acting Sub-Secretary.

To the Secretary to Government, Public Works Department,
with two original statements to be returned.
Copy to the Collector of Malabar.
" " Secretary to Government, Revenue Department.

Ed. A. Grubert.

40.1875. 3.7.75.
 4-624-14.5.77
 4-8694-4.10.77

Public Works — in Malabar District — Submitting to Government Collector's report on the expenditure incurred on — during 1877-78.

2-24/11/75
 AUGUST
 No. 2,357.

PROCEEDINGS, 21st AUGUST 1878, No. 2,357.

Dated August 21st.
 Printed 30th.
 Reed.

1878.
 BOARD of Revenue.
 MADRAS.
 THE SECRETARY TO GOVT.
 PUBLIC WORKS DEPARTMENT.

* H. H. G. G. G.
 of Rev. 1-10-78

Cir 12.4.78 Del 17.9.78
 20 20.10.9.78
 10-10-78

Genl
 Estall
 No 3652 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

3652/6

UNDER date the 16 Sept 78
 Read the following:—

Proceedings of the Board
 of Revenue

{ H. H. G. G. G. 23.5.78 21.10.78 }

Communicated to
 the District Engineer,
 Malabar, who will
 explain why the charges
 for repairs to the
 Vettal and Kawamakkal
 dams should be steadily
 increasing. The collector
 would appear not to
 have made any reference
 on this point to
 Colonel Kennedy. Had
 he done so, the necessity
 of the present reference
 would have been obviated.

10/9

Order

2. Orders have already been passed on the subject of the Manantooly Catchery. The several Officers and Subordinates who had to do with the building were undoubtedly responsible for the imperfect estimates and for part of the delay, but much of the expense and much of the delay which the Board of Revenue notice were also due to the causes detailed in Col^l Kennedy's letter of the 31st May 1875, recorded with G. O. No. 1878, dated

3659
7

3rd July 1875, for which the P. H. Department were not responsible.

3. With regard to the last paragraph of Mr Logan's letter it is observed that the District cannot be manned as the Collector would have it under the coming or any reorganisation, and that the non-permanency of bridges in Malabar is due in more cases to the exceptionally wearing climate, and the enormous rain fall in some localities, than to bad workmanship.

Mr. T. Sullivan

3652
100

The allotments for the year have been well utilized by Col. Kennedy and his subordinates, as the Board of Revenue remarks which is in itself a sufficient proof that the ^(established) Department is not very much undermanned.

W. H. 11.9.78

D. H. Malabar
Rev. Deputy
Chief Eng. for S. India

Oct. 1-10-78

Cir 12.9.78 Recd 17.9.78
10-9-78

10054

Govt. of (1878) Madras.

PUBLIC WORKS.

To

M. T. P. P. M.
M. T. P. P. M.

Dated

Issued

Recd.

Encl.

G. O., 16 Sep. 1878, No. 36524

Nos. 180 & 181

Public works in the Thalass district

Passing orders on the
Boards Proceedings submitting to
Government Collector's report on the
expenditure incurred on — during
1877-78.

Entwistle