

(1) Number of pages.....

(2) Date of repair.....

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MADRAS RECORD OFFICE.

Government of Madras.

Public work DEPARTMENT.

G.O. No. /739	Press ~~Mis.~~
Dated 10-6-1867	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
10th June 1867.*

No. 214. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 1st June 1867, No. 19 :—

1. I have the honour to submit the following report on the progress made in the works of the Madras Irrigation and Canal Company, during the two months ending 31st March 1867.

2. The removal, from the debit to Construction, of the amounts retrenched from the expenditure in the 4th Section, Main Canal, has been effected as directed in Proceedings Madras Government of the 29th March last, No. 992.

3. The total expenditure on works during the period included in the report now made was but Rupees 10,693. Several Engineers arrived from England in February, but they had not had time before the close of the official year to start the works in the several sections: indeed, the expenditure in cash was but little more than 6,000 Rupees.

4. The expenditure on the Soonkasala anicut and head works was Rupees 1,972-2-1, consisting of Rupees 131-0-11 for earth-work, Rupees 1,032-3-0 for masonry, Rupees 130-4-0 for baling, Rupees 133-7-5 for special superintendence and sundries, Rupees 139-2-6 for stores, and Rupees 106-0-3 for proportion of store charges.

5. The expenditure on the Hindry aqueduct was Rupees 163-3-9, the items being—

	RS.	A.	P.
Rubble stone in chunam, cubic yards 13... ..	36	12	4
Plastering, square 9	37	9	7
Concrete flooring, cubic yards 23	66	7	2
Stores	18	0	0
Proportion of Store charges	4	6	8

6. Rupees 2,827-6-7 were expended on the 1st Section, 1st to 17 $\frac{1}{4}$ miles, of the Main Canal, the work done being—

	RS.	A.	P.
Bridge	3	14	3
Removing silt	2,524	3	4
Special Superintendence and Sundries	298	5	9
Proportion of Store charges	0	15	3

7. The 2nd Section, from the 18th to the 32nd miles, shows an outlay of Rupees 284-14-1, the items being—

	RS.	A.	P.
Special Superintendence and Sundries	265	13	4
Stores	15	10	0
Proportion of Store charges	3	6	9

8. On the 3rd Section of the Main Canal, from the 33rd to 43rd miles, there was an expenditure of Rupees 227-4-7, the details being—

Special Superintendence and Sundries	175	13	3
Stores	41	4	10
Proportion of Store charges	10	2	6

Proceedings of the Madras Government, Public Works Department.
10th June 1867.

9. On the 4th Section, or miles 44 to 60 of the canal, Rupees 1,372-10-8 were expended on

	RS.	A.	P.
Excavation and embankment, cubic yards 790	186	1	7
Culvert of 8 feet No. 1	201	10	4
Do. 14 „ „ 4	71	5	4
Old tank bund embankment and excavation...	8	5	6
Plant and Contingencies	441	10	8
Stores...	424	7	6
Proportion of Store charges	39	1	9

10. On the 5th Section of the Main Canal, from 61st to 72nd miles, there was an expenditure of Rupees 2,305-7-2, the items being—

	RS.	A.	P.
Excavation and embankment, cubic yards 6,600...	1,186	0	5
Contingencies	32	7	2
Stores	872	10	10
Proportion of Store charges	214	4	9

11. On the 6th Section, or miles 73rd to 91st of the canal, Rupees 527-11-11 were expended on

	RS.	A.	P.
Special Superintendence and Sundries	12	0	0
Stores...	414	1	0
Proportion of Store charges	101	10	11

12. The outlay on the 7th Section, miles 92nd to 114th, amounted to Rupees 472-9-6, being for

	RS.	A.	P.
Special Superintendence and Sundries	151	15	0
Stores...	257	6	11
Proportion of Store charges	63	3	7

13. The outlay on the 8th Section, miles 115th to 143rd, was Rupees 307-3-5, consisting of Rupees 257-12-3 for embankment and cutting, and Rupees 49-7-2 for Special Superintendence and Sundries.

14. The expenditure on works of distribution was Rupees 55-3-11, of which Rupees 14-2-3 were expended on the 2nd Section, and Rupees 41-1-8 on the branch channels and sluices in the 4th Section or Nagatoor Division.

15. The expenditure on buildings was Rupees 177-7-6, consisting of the following items:—

	RS.	A.	P.
Hospital at Somaishwaram	139	13	0
Office, Store, and Workshop at Kurnool	37	10	6

16. The following abstract shows the expenditure on all works from the commencement to the close of the two months ending 31st March 1867, compared with the sanctioned estimates.

Proceedings of the Madras Government, Public Works Department.
10th June 1867.

Works.	Amount of Estimate.	Expenditure up to 31st Jan. 1867.	Cost during February and March 1867.	Total expenditure.	Add amount transferred to this from other works.	Deduct refunds to this from other works.	Total net expenditure.	Amount	
								Available.	In excess of Estimate.
<i>Main Supply.</i>									
Anicut and head works at Kurnool	3,03,080	60,327	...	60,327	...	...	60,327	2,42,753	...
Do. do. at Soonkasala	4,27,032	3,99,874	1,972	4,01,846	...	...	4,01,846	25,206	...
Do. do. at Somaishwaram	1,67,470	60,326	...	60,326	...	...	60,326	1,07,144	...
Aqueduct across the river Hindry	2,46,029	2,67,695	163	2,67,858	...	53	2,67,805	...	21,776
Canal for one mile from the head sluice of the Kurnool Anicut	65,000	49,285	...	49,285	...	...	49,285	15,715	...
South Main Canal, 1st Section, 17½ miles	8,54,777	8,80,745	2,827	8,83,572	...	2	8,83,570	...	26,793
Do. 2nd do. 18th to 32nd miles	13,81,124	13,23,084	2-5	13,23,089	...	138	13,23,831	...	1,42,707
Do. 3rd do. 33rd to 43rd do.	5,81,240	6,79,999	227	6,79,366	...	...	6,79,236	...	94,996
Do. 4th do. 44th to 60th do.	9,78,698	6,90,190	1,373	6,91,563	...	609	6,90,954	...	...
Do. 5th do. 61st to 72nd do.	5,89,512	5,57,209	2,303	5,59,514	...	...	5,59,514	...	...
Do. 6th do. 73rd to 91st do.	4,41,944	3,17,431	528	3,17,979	...	...	3,17,979	...	...
Do. 7th do. 92nd to 114th do.	2,35,810	2,12,043	473	2,12,516	...	...	2,12,516	...	...
Do. 8th do. 115th to 143rd do.	7,36,830	5,65,497	307	5,65,804	...	57	5,65,747	4,71,083	...
	70,08,606	59,63,335	10,460	59,73,795	...	859	59,72,936	13,21,942	2,86,272
<i>Distribution.</i>									
Branch channel and sluices between the first 17½ miles of 1st Section	6,681	3,879	...	3,879	...	...	3,879	2,802	...
Distribution works at the 2nd Section	6,000	4,747	14	4,761	...	...	4,746	1,254	...
Do. do. at 3rd do.	9,320	4,261	...	4,261	...	...	4,261	5,059	...
Do. do. at 4th do.	8,286	3,200	41	3,241	...	42	3,199	5,087	...
Do. do. at 6th do. in the Bowarassy Division	10,000	2,842	...	2,842	...	...	2,842	7,158	...
Do. do. at Soonkasala	...	925	...	925	...	...	925	...	925
Kurnool Town water-supply	1,619	1,382	...	1,382	...	...	1,382	317	...
	41,986	21,221	55	21,276	...	42	21,234	21,677	925
<i>Buildings.</i>									
Central Hospital with out-houses and compound wall at Kurnool	4,367	4,367	...	4,367	...	...	4,367	...	...
Repairs to do. do.	68	60	...	60	...	...	60	8	...

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10th June 1867.

Works.	Amount of Estimate.	Expenditure up to 31st Jan. 1867.	Cost during February and March 1867.	Total expenditure.	Add amount transferred to this from other works.	Deduct refunds to this from other works.	Total net expenditure.	Amount	
								Available.	In excess of Estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Buildings—(Concluded.)</i>									
Office, Store-house, and Workshop at Soonkasala ...	5,947	5,946	...	5,946	...	...	5,946	1	...
Powder Magazine, Store, and Station roads at Bowanassy ...	4,359	4,359	...	4,359	...	...	4,359	...	36
Office and Store-room and Artificers' shed at do. ...	7,298	7,334	...	7,334	...	...	7,334	168	...
Repairing the above buildings at do. ...	168	...	...	...	...	...	...	...	...
Improvement of the road approaching to the above buildings, and repairing culverts at do. ...	578	318	...	318	...	...	318	260	...
Converting the unfinished building intended for a Gun Powder Manufactory into a Hospital at do. ...	427	19	...	19	...	...	19	408	...
Workshop building at Bowanassy ...	5,209	6,356	...	6,356	...	...	6,356	...	1,156
Office and Store building at Valapanoor in the Bowanassy Division ...	1,970	5,114	...	5,114	...	...	5,114	...	3,144
Do. do. at Jopand in the Nagore Division ...	4,123	3,245	...	3,245	...	...	3,245	...	...
Do. do. at Puggudal do. ...	3,977	3,833	...	3,833	...	...	3,833	...	...
Do. do. at Chinnagoonta in Kunder ...	5,283	5,102	...	5,102	...	...	5,102	...	...
Office and Temporary Store shed at Ayaloor in do. ...	642	67	...	67	...	...	67	...	...
Quarters for Sub-Assistant Engineers and Assistant Surveyors at do. ...	1,936	561	...	561	...	...	561	...	...
Hospital and Apothecary's residence at Somaiywaran Office building at do. ...	2,990	2,600	...	2,600	...	...	2,600	...	...
Repairs to the Ancient Office at Zorapoor ...	1,470	1,470	...	1,470	...	...	1,470	...	...
Overseer's Quarters, Store, Workshop, Clerk, and Pay Office at Somaiywaran ...	37	308	...	308	...	...	308	10	...
Office, Store, and Workshop at Kurnool ...	4,841	4,841	...	4,841	...	...	4,841	...	...
Iron and Brass Foundry at do. ...	30,612	13,707	...	13,745	...	...	13,745	16,867	...
Room for receiving and despatching Stores at do. ...	15,328	15,168	...	15,168	...	...	15,168	160	...
	1,01,121	84,535	178	84,813	...	...	84,813	20,644	4,336
	71,51,743	69,69,191	10,593	60,79,854	...	901	60,78,983	13,61,263	2,91,533

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10th June 1867.

17. This Statement shows that the expenditure of the two months was Rupees 10,693, and the net total outlay up to 31st March 1867 Rupees 60,78,983.

18. The subjoined Statement shows the expenditure in excess of sanction at the end of the two months to have been Rupees 2,91,533:—

Works.	Excess expenditure up to 31st January 1867.	Excess expenditure during the 2 months ending 31st Mar. 1867.	Total.	Add amount transferred to this from other works.	Deduct re-funds.	Excess net expenditure up to 31st March 1867.
	RS.	RS.	RS.	RS.	RS.	RS.
<i>Main Supply.</i>						
Aqueduct across the river Hindry ...	21,665	164	21,829	...	53	21,776
South Main Canal, 1st Section... ..	23,968	2,827	26,795	...	2	26,793
Do. 2nd do.	1,42,560	285	1,42,845	...	138	1,42,707
Do. 3rd do.	94,769	227	94,996	...	...	94,996
	2,82,962	3,503	2,86,465	...	193	2,86,272
<i>Distribution.</i>						
Distribution at Soonkasala	925	...	925	...	...	925
	925	...	925	...	...	925
<i>Buildings.</i>						
Office, Store, and Artificers' shed at Bowanassy	36	...	36	...	...	36
Do. at Valapanoor... ..	3,144	...	3,144	...	...	3,144
Workshop building at Bowanassy	1,156	...	1,156	...	...	1,156
	4,336	...	4,336	...	...	4,336
	2,88,223	3,503	2,91,726	...	193	2,91,533

As the Chief Engineer appears to have been unable to get the revised or supplemental estimates, required to cover the excess expenditure above shown, ready for sanction, and as the expenditure in excess during the quarter is small, no special remarks are necessary.

19. The following estimates were received from the Agent, and submitted to Government during February and March 1867.

Estimate for the examination and repair of the Soonkasala ancient	500
Supplemental Estimate for Office, Store, and Workshop buildings at Soonkasala	1,947
Estimate for the 2nd and 3rd class Bridges in the 1st Section	25,150
Do. 2nd class bridge at Poodoor in the 2nd Section... ..	8,550
Do. do. bridge near Malayala, 3rd Section	5,050

20. Of these the first three received the sanction of Government during February and March 1867, and the others have since been sanctioned.

Proceedings of the Madras Government, Public Works Department.
10th June 1867.

21. The cost of the executive permanent establishment for the two months amounts to 142.84 per cent. on the expenditure for Construction; that of the establishments engaged in investigations in Bellary and Nellore to 44.50 per cent.; that of General Management to 125.78 per cent. The total cost of the permanent establishment was therefore 313.52. The temporary establishments paid from estimates amount to 6.32 per cent. on the expenditure for works.

No. 215.

ORDER THEREON, 10th June 1867, No. 1,739.

IRRIGATION, No. 11.

Ordered that this Report be communicated to the Home Government.

(True Extract.)

(Signed) CHARLES A. GERR, Colonel, R. E.,
Secretary to Government.

To the Consulting Engineer for Irrigation and Canal Company.
.. Manager for .. do. .. do.

Erd. S. T. Augustin.

1867
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1867

Consulting Engineer's Office
Irrigation and Canal Co.
Madras 17th June 1867

Captain John. Mullins R.E.
Consulting Engineer, Sand & Co.

Colonel C. V. An R.E.
Secretary to Government P. W. D.

I have the honor to submit the following report on the progress made in the works of the Madras Irrigation and Canal Company, during the 2 months ending 31st March 1867.

1. The removal, from the debit to Construction, of the amounts retrenched from the expenditure in the 1st Section, Main Canal, has been effected as directed in Proceedings Madras Government of the 29th March last, No. 992.

2. The total expenditure on works during the period included in the report now made was but Rupees 10,698. Several Engineers arrived from England in February, but they had not had time before the close of the official year to start the works in the several Sections, indeed the expenditure in Cash was but little more than 6,000 Rupees.

3. The expenditure on the Sunkasala Quicut and head works was Rupees 1972-2-1, consisting of Rupees 131-0-11 for Earthwork, Rupees 1032-3-0 for Masonry, Rupees 130-10-0 for Dalings, Rupees 133-7-5 for Special Superintendence and Sundries, Rupees 139-2-6 for Stores, and Rupees 106-0-3 for proportion of Store Charges.

4. The expenditure on the Hindry Aqueduct was Rupees 163-3-9 the items being.

Public

Rubble Stone in Chimney Cys 13	36	12	4
Plastering Square 9	57	9	7
Concrete flooring Cys 23	66	7	2
Flows	18		
Proportion of Store Charges	4	6	8.

6 Rupees 2827-6-7 were expended on the first Section, 1st to 17th Miles, of the Main Canal, the work done being

Bridge	3	14	3
Remouing Silt	2,524	3	4
Special Superintendence and Sundries 298	5	9	
Proportion of Store Charges	15	3	

7 The second Section from the 18th to the 32nd miles shows an outlay of Rupees 284-14-1, the items being

Special Superintendence and Sundries 265	13	11	
Stores	13	10	
Proportion of Store Charges	3	6	9.

8 On the 3rd Section of the Main Canal, from the 33 to 43 Miles, there was an expenditure of Rupees 227-4-7, the details being

Special Superintendence and Sundries 175	13	3	
Stores	41	4	10
Proportion of Store Charges	10	2	6.

9 On the 4th Section, or miles 44 to 60, of the Canal, Rupees 1372-10-8 were expended on

Excavation and Embankment Cys 790-186-1-7			
Cutburst of 5 feet. 1 st	201	10	4
Do. 1 st	71	5	4
Old tank bund Embankment & Excavation 8	5	6	
Plant and Contingencies	441	10	8
Stores	124	7	6
Proportion of Store Charges	39	1	9.

10 On the 5th Section of the Main Canal, from 61st to 72nd Miles, there was an expenditure

of Rupees 2305-7-2 the items being			
Excavation and Embankment Cys 680-1186-1-5			
Contingencies	33	7	2
Stores	372	10	10

Proportion of Store Charges 214-4-9.

11 On the 6th Section, or Miles 73 to 91, of the Canal, Rupees 527-11-11 were expended on

Special Superintendence and Sundries 12			
Stores	114	1	
Proportion of Store Charges	101	10	11.

12 The outlay on the 7th Section, Miles 92 to 114, amounted to Rupees 472-9-6, being for

Special Superintendence and Sundries 151	15		
Stores	257	6	11
Proportion of Store Charges	63	3	7.

13 The outlay on the 8th Section, Miles 115 to 143, was Rupees 307-3-5, consisting of Rupees 227-11-3 for Embankment and Cutting, and Rupees 80-7-2 for Special Superintendence and Sundries.

14 The expenditure on works of Distribution was Rupees 55-3-11, of which Rupees 14-2-3 were expended on the 2nd Section, and Rupees 41-1-8 on the branch Channels and Sluices in the 1st Section or Separator Division.

15 The expenditure on Buildings was Rupees 177-7-6 consisting of the following items.

Hospital at Ammaiwaram	139	13	
Office, Store, and Workshop at Kurnool	37	10	6.

16 The following abstract shows the expenditure on all works from the Commencement to the close of the 2 months ending 31st March 1867, compared with the sanctioned Estimates.

17 This Statement shows that the expenditure of the 2 months was Rupees 10,693 and the net total outlay up to 31st March 1867 Rupees 64,789.83.

18 The subjoined statement shows the expenditure in excess of sanction at the end of the 2 months to have been Rupees 29,153.3.

Works	Excess Expenditure upto 31 st March 1867	Excess Expenditure during the 2 months ending 31 st March 1867	Total	Amount paid to the Government	Amount paid to the Government
<u>Main Supply</u>					
Aqueduct across the River Hinday	21665	164	21829	53	21776
South Main Canal 1 st Section	23968	2827	26795	2	26793
Do 2 nd Section	142560	285	142845	138	142707
Do 3 rd Section	94769	227	94996		94996
	282962	3503	286465	193	286272
<u>Distribution</u>					
Distribution at Sankavala	925		925		925
	925		925		925
<u>Buildings</u>					
Office Store & Officers Shed at Bomanagery	36		36		36
Do at Talapannoor	3144		3144		3144
Workshop building at Bomanagery	1156		1156		1156
	4336		4336		4336
	288223	3503	291726	193	291533

As the Chief Engineer appears to have been unable to get the revised or supplemental estimates, required to cover the excess expenditure above shown, ready for sanction, and as the expenditure in excess during the quarter is small, no special remarks are necessary.

19 The following estimates were received from

from the Agent and submitted to Government during 2 February and 3 March 1867.

Estimate for the examination & repair of the Sankavala Aqueduct	500
Supplemental Estimate for Office Store & Workshop building at Sankavala	1947
Estimate for the 3 rd Class Bridge in the 1 st Section	25150
Do 3 rd Class Bridge at Poodoor in the 2 nd Section	8550
Do 3 rd Class Bridge near Malaguta 3 rd Section	5050

20 Of these the first three received the sanction of Government during February and March 1867, and the others have since been sanctioned.

21 The cost of the Executive permanent establishment for the 2 months amounts to 142.84 per cent on the expenditure for construction, that of the establishments engaged in investigation in Bellary and Bellary to 14.90 per cent; that of General Management to 125.78 per cent. The total cost of the permanent establishment was therefore 313.52. The temporary establishments paid from estimates amount to 6.32 per cent on the expenditure for works.

I have the honor to be,
Sir
Your most obedient servant
Wm. Mullins Captain R.E.
Consulting Engineer S.P.C.E.

R. M. B. 1867

1739

Under each of the

(Here enter No. 19 dated _____)

(Here enter No. 19 dated 1st Jan. 1867)

Ordered that the
Report be communica-
ted to the Home Go-
vernment.

W. B. R.

The Dinglenger 2900 ✓
Hanger 910 ✓

Rec'd 15/5/07

To Mr. J. B. T. & Co. Merchants
of New York City
New York

The four: Aug. 1880.

The Secretary to Government
at Wash.

Cash, \$
Dec. 4th } June 1867

Admiral's report on the
progress made in the works
of the M. 1860, during the
2 months ending 31 March 1877.

210 11739-104 June 1967

e-76 June 1867 in 30

P. W. 1867. Department.

No. of Govt. for Invoice
No. 1739

Dated

10th June 1867

Progress Report of the
Madras L. and C. Company
works for the two months ending
31st March 1867, communicated
to the Home Government.

No 214 - 215