

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 1816

Press
Mis. 1

697-698

Dated 30-6-1865

Not to be folded or roughly handled

69

Consulting Engineer's Office,
Irrigation & Canal Company,
Madras, 20th June 1865.

N^o 35.

14

Sir,

Captain L. Mullins R.E.

Que Engrs & C. Co.

For

The Secretary to Government,
Department of Pub. Works.

Sir,

1. 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 quarter ending 31st January 1865.
2. The Agent's report for January was received on the 10th May 1865, my Memo. of Audit thereon was sent to him on the 2nd June, ~~1865~~ and his reply thereon was received on the 17th instant.
3. The expenditure on the Soot Karala Ament and headworks was Rupees 29,394-3-8, consisting of Rupees 13,743-8-11 for masonry, Rupees 1,295-7-1 for superintendence and sundries, Rupees 11,876-3-4 for stores, and Rupees 2,479-11-4 for store charges adjusted.
4. The expenditure on the Hindry Aqueduct was Rupees 10,385-11-6 the items being,

Excavation

Excavation, baling and filling in	Recap
Rubble stone in chunam	851-12-8
Cut stone	1446-12-11
Archwork in chunam Cuby	126-12-11
Centrings	237-1679-15-1
Plastering and cornice	1049-11-4
Special superintendence & sundries	848-8-2
Stores	1443-10-7
Proportion of Store charges	2416-9-9
	522-11-1

5. Rupees 22115-13-8 were expended on the 1st section, 1 to 17 1/4 miles, of the Main Canal, the work done being,

Excavation & embankment Cuby	Recap
Revetting interior banks with rough stone	42339-7408-11-1
Calingulabs	21164-9390-14-8
Bridges	48-12-1
Special superintendence and sundries	39-1-1
Stores	4189-1-10
Proportion of Store charges	636-15-10
	402-7-4

6. The 2nd and 3rd Sections of the Main Canal, from the 18th to the 43rd miles, show an outlay of Rupees 217963-11-8 and the items are

Excavation and embankment Cuby	364774-87322-11-7
Agred on the 23 rd mile	4037-7-8
Agred on the 35 th	3385-1-4
Calingulabs	1837-8-1
Culverts	52-1-1
Bridges	21-3-1
Tunnels	321-9-2
Masonry walls	42336-2-6
Siphon sluice	346-8-5

Revetment

Revetment & Masonry at the 18 th mile	54154-5-8
Alterations of road	1665-6-10
Special superintendence and sundries	17586-2-3
Stores	4011-14-8
Proportion of Store charges	825-12-1
7. On the 4 th and 5 th Sections of the canal, from the 44 th to 72 nd miles, there was an expenditure of Rupees 130132-13-4 the details being,	
Excavation and embankment Cuby	253567-64289-1-3
Revetments and pitching	1392-24696-9-4
Agred on the 63 rd mile	3898-7-10
Bridges	4550-4-3
Calingulabs	1545-11-1
Culverts	4881-1-8
Return bund	2467-1-1
Seaming sluice and channel	2039-15-10
Special superintendence and sundries	18694-10-11
Stores	2545-14-9
Proportion of Store charges	524-1-6
8. On the 6 th Section, or miles 73 rd to 91 st of the canal, Rupees 50705-13-11 were expended on	
Excavation and embankment Cuby	141111-13712-1-8
Culverts	5778-9-2
Locks	15000-5-5
Bridges	771-15-1
Seaming sluice and channel	504-9-10
Special superintendence and sundries	2709-15-1
Channel for discharging surplus water below Metacandel Cut	3542-12-5
Stores	2114-2-5
Proportion of Store charges	1171-7-10
9. The outlay on the 7 th Section, miles 92 nd to 114 th , amounts to	

to Rupees 19993-6-7 being for,

Excavation and embankment by Rs. 56081	6025-7-1
Ancient and head works	2396-14-2
Regulating Locks	338-7-3
Culverts	2658-13-7
Calingulash	1702-13-7
Bridges	1025-4-6
Special superintendence and sundries	2928-5-1
Stores	2114-3-3
Proportion of Store charges	803-2-1

10. The outlay on the 8th Section - miles 115th to 143rd was Rupees 42906-2-0 the items being,

Excavation and embankment by Rs. 305784	30804-14-6
Locks	536-11-1
Calingulash	1840-2-6
Culverts	315-12-6
Bridges	3360-3-10
Special superintendence and sundries	5396-7-2
Stores	540-3-10
Proportion of Store charges	111-10-7

11. The Ancient and head works at Somairwarum when an expenditure of Rupees 12312-5-0 consisting of Rupees 7231-11-7 on the body of the Ancient, Rupees 107-8-0 on the arch & pier of sluice, Rupees 15-0-0 for windlasses, Rupees 764-15-1 for Railway and waggons, 2523-2-5 for Special superintendence and sundries, Rupees 1377-7-3 for stores, and Rupees 293-3-8 on account of store charges adjusted.

12. A sum of Rupees 38-14-8 was adjusted to the debit of the Ancient at Turnool.

13. The expenditure on works of distribution was Rupees

16. The statement shows that the expenditure of the quarter was Rupees 53,804.8 and the net total outlay up to the end of the quarter Rupees 4,31,730.9.

17. The subjoined statement shows the expenditure in excess of sanction to be Rupees 2,57,999 more than that noticed in my last report, the outlay not covered by sanctioned estimates being Rupees 9,57,487.

Works.	Excess expenditure during the 3 rd quarter 1865.	Excess expenditure during the 3 rd quarter 1865.	Excess expenditure during the 3 rd quarter 1865.	Excess expenditure during the 3 rd quarter 1865.	Excess expenditure during the 3 rd quarter 1865.
<u>Main Supply.</u>					
Minor hand works at Sont Karala	195358	29395	224753	"	224753
Aqueduct across the river Hindry at Kurnool.	"	8934	8934	"	8934
South Main Canal 2 nd & 3 rd portions of the 1 st section	485509	217964	703473	1408	702065
<u>Buildings</u>					
Central hospital at Kurnool	1656	"	1656	8	1648
Office and store at Sont Karala	3741	2	3743	22	3771
do do and artificer's shed at Bonawary	168	4	172	"	172
Road and bridges at Bonawary.	3868	"	3868	"	3868
Office and store at Supas in the Nagahora to Rs. 273	1	"	1	"	1
Reduct the amount of the exp. etc. sanctioned during the 3 rd quarter	69	313	382	"	382
do do at Chindagoontah in Kunder	754	499	1253	"	1253
do do at Valapanoor in Bonawary	2343	788	3131	"	3131
Office building at Bonawary	1470	"	1470	"	1470
	695026	257899	952925	1438	951487

Out of the 224,753 on the Sont Karala minor, supplemental estimates amounting to Rupees 2,22,792 have subsequently received the sanction of Government, but these it would seem are likely to prove very inadequate. For the Hindry Aqueduct, the 2nd item, a supplemental estimate has just been

with letter No. 33 of the 19th June/65. - been submitted. - The third item, Rupees 70,206, has been covered by subsequent sanctions.

The excess expenditure on buildings was noticed in the last report, and estimates on their account have as yet reached this office.

18. The following estimates were received from the Agent and submitted to Government during the quarter. Revised plans and estimates for the masonry works of the 4th section Main Canal - Rs. 4,5980 - for the Sub-Assistant Engineers' quarters in the Kunder Division - 1070 Estimate for the off-take channel from the Rajahy Amintat the head of the 9th section, Main Canal - 8910 Estimate for covering with earth the sandy bed of the Main Canal below the Hindry Aqueduct - 3700 Plan and estimate of the workshop buildings at Bonawary - 8200 Revised plan and estimate of the works in the 3rd section Main Canal - 756740

Of these the first 5 estimates received the sanction of Government during the quarter, and also the revised estimate for the 5th section Main Canal for Rupees 1,66,650 - which was submitted in the previous quarter.

19. The expenditure on works including special superintendence and sundries was, as shown in paragraph 16 above - Rupees 53,804.7 - 12-7, the included superintendence and sundries being Rupees 64,154.4-8. The absence of the returns of Contingent Establishment for the Nagahora and

and Nellore divisions prevent the usual comparison of cost of temporary Establishment being made, but that of the permanent establishment debited to Construction was Rupees 64,330-6-3 or 12.044 per cent, but deducting the pay of those establishments engaged exclusively on survey operations, this part of the superintendence cost 7.906 per cent.

Remainder Rs. 8220-12-2
 Reserve Survey Rs. 9560-7-1
 Bellary Rs. 3330-1-5
 Total Rs. 22101-3-8

The percentage of the Controlling establishment for this quarter was 5.453 - subjoined are the particulars of the cost of permanent and special temporary (as far as known) establishments in the several divisions for the quarter ending 31 January 1865.

	Permanent as per By abstract	Temporary by abstract	Total	Expenditure on construction exclusive of temporary establishments	Remarks
<u>Construction</u>					
Minty Division including Sonnasala Division	9666 8 8	11245 8	20909 13 8		
Nagahoor & Romanahy Division	16246 9 8	6073 7 6	22320 1 2		
Kondam Division	6953 1 1	876	7829 1 1	534 112 9 10	* Rs. 3935-2-9 were deducted on account of refunds.
Nellore Division including Sonnaswaram Annex	9363 2 2		9363 2 2		
<u>Total Rupees 42229 2 7</u>					

I have the honor to be,
 Sir,
 Your most obedient servant,
 Wm. H. M. Captain, R.E.
 Col. Ingeford, R.E. Co.

Edw. M. Buck

Copy in a letter to Eng?
D. 30. June 1863 of 1865

1865 D. 30. June 1865
D. 30. June 1865
D. 30. June 1865
D. 30. June 1865
D. 30. June 1865

1865 D. 30. June 1865
D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865

1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865

1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865

1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865
1865 D. 30. June 1865