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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. <u>47</u>	Press
<u>102-103</u>	<u>Mis.</u>
Dated <u>7-1-</u>	18 <u>67</u> .

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
7th January 1867.*

No. 102. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Department Public Works, dated Madras, 19th December 1866, No. 102:—

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 October 1866.

2. In accordance with a suggestion made by the Agent, I have, in supercession of previous references calling for explanation on the reports for the several months as received, called his attention to those points in the report for October, which appeared to require explanation. Mr. Henslowe's reply has not as yet been received, but, as I shall be absent from Madras for some little time to come, I have thought it better to submit the present report at once, and such remarks as may appear to be requisite, for the information of Government, with regard to expenditure not in accordance with sanction, will be included in my next report.

3. The expenditure on the Soonkasala anicut and head works was Rupees 681-10-7, consisting of Rupees 514-4-7 for masonry, Rupees 64-6-4 for special superintendence and sundries, Rupees 83-4-4 for stores, and Rupees 19-11-4 for proportion of store charges.

4. The expenditure on the Hindry aqueduct was Rupees 607-0-11, the items being—

	RS.	A.	P.
Rubble stone in chunam...	481	12	0
Cut stone work ...	40	4	0
Arch work in chunam ...	2	0	0
Plastering ...	7	0	0
Concrete flooring ...	76	0	0
Special superintendence and sundries ...	0	0	11

5. Rupees 2,765-15-9 were expended on the 1st Section, 1 to 17½ miles of the Main Canal, the work done being—

	RS.	A.	P.
Excavation and embankment, cubic yards 70...	8	12	0
Rocky excavation, cubic yards 4,436 ...	770	13	0
Revetting interior banks with rough stone, cubic yards 891 ...	563	8	0
Culverts ...	12	8	0
Temporary bridge ...	464	10	0
Emergent repairs ...	52	8	0
Planting ...	30	2	0
Special superintendence and sundries ...	588	14	11
Stores ...	221	13	4
Proportion of Store charges.,, ...	52	6	6

6. The 2nd Section, from the 18th to the 32nd miles, show an outlay of Rupees 15,467-3-0, the items being—

	RS.	A.	P.
Excavation and embankment, cubic yards 15,772 ...	3,230	11	3
Rocky excavation and cutting, cubic yards 6,140 ...	4,612	4	1
Revetment, square yards 1,021 ...	584	10	8

*Proceedings of the Madras Government, Public Works Department,
7th January 1867.*

	RS.	A.	P.
Dry rubble wall, cubic yards 1,162 ...	913	7	11
Clay well rammed between the above, cubic yards 271 ...	135	8	0
Aqueduct at Kadrabagh ...	2,934	3	3
Calingulahs ...	12	9	7
Alteration of Gooty and Gardoomadagoo roads ...	44	2	1
Closing breaches 25th and 27th miles, cubic yards 2,780½ ...	950	1	7
Sluices ...	66	10	0
Repairs, strengthening of wall at foot of new bank, cubic yards 997 ...	250	7	2
Special superintendence and sundries ...	1,178	5	0
Stores ...	451	7	2
Proportion of Store charges ...	102	11	3

7. On the 3rd Section of the Main Canal, from the 33rd to 43rd miles, there was an expenditure of Rupees 7,788-10-5, the details being—

	RS.	A.	P.
Excavation and embankment, cubic yards 400 ...	1,455	8	8
Rocky excavation and cutting, cubic yards 586 ...	465	5	8
Revetment, square yards 112 ...	3,620	14	5
Calingulahs ...	104	2	0
Scouring sluices ...	144	13	7
Sluices ...	5	0	0
Shingle ...	840	0	0
Special superintendence and sundries ...	953	9	9
Stores ...	161	2	3
Proportion of Store charges ...	38	2	1

8. On the 4th Section, or miles 44 to 60 of the Canal, Rupees 5,511-14-0 were expended on—

	RS.	A.	P.
Excavation and embankment, cubic yards 1,426 ...	2,496	0	7
Bridge ...	5	7	0
Calingulahs ...	179	2	1
Culverts ...	1,833	13	3
Catch-water drain, cubic yards 220 ...	29	10	9
Plant and contingencies ...	967	12	4

9. On the 5th Section of the Main Canal, from the 61st to 72nd miles, there was an expenditure of Rupees 4,178-15-10, the items being—

	RS.	A.	P.
Excavation and embankment, cubic yards 169 ...	228	2	10
Catch-water drain, cubic yards 1,975 ...	227	7	2
Terroogopully aqueduct ...	878	2	2
Bridge on road from Mettacondal to Yerragoodoor ...	49	14	7
Culverts ...	1,715	5	9
Scouring sluice and channel ...	59	6	9
Contingencies ...	1,020	8	7

*Proceedings of the Madras Government, Public Works Department,
7th January 1867.*

10. On the 6th Section, or miles 73rd to 91st of the Canal Rupees 1,886-4-8 were expended on—

	RS.	A.	P.
Excavation and embankment... ..	79	11	10
Single and double culverts	6	14	1
Locks	915	3	11
Bridge	163	15	6
Special superintendence and sundries ...	720	7	4

11. The outlay on the 7th Section, miles 92nd to 114th, amounts to Rupees 888-2-7, being for—

	RS.	A.	P.
Anicut and head works	191	12	1
Culverts	119	3	4
Calingulahs	149	14	11
Bridges	34	3	10
Nundial Tank... ..	46	4	0
Special superintendence and sundries ...	346	12	5

12. The outlay on the 8th Section, miles 115 to 143, was Rupees 35-9-4, for special superintendence and sundries.

13. The expenditure on the Somaishwaram anicut and head works was Rupees 58-3-5 consisting of Rupees 47-1-2 for stores, and Rupees 11-2-3 for proportion of store charges.

14. The expenditure on works of distribution was Rupees 217-0-4, of which Rupees 155-4-9, were expended on the 2nd Section, Rupees 16-4-0 on the branch channels and sluices in the 4th Section or Nagatore Division, and Rupees 45-7-7 on the distribution channels in the 6th Section.

15. The expenditure on buildings was Rupees 8,632-10-3, consisting of the following items:—

	RS.	A.	P.
Office and Store buildings at Jupad ...	20	12	4
Office, Store and Workshop at Kurnool ...	8,611	13	11

16. The following abstract shows the expenditure on all works from the commencement to the close of the quarter, compared with the sanctioned estimates:—

Proceedings of the Madras Government, Public Works Department,
7th January 1867.

17th January 1867.

Work.	Amount of estimate.	Expenditure up to 31st July 1866.	Cost in the quarter ending 31st October 1866.	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...	Rs. 3,03,080	Rs. 60,327	Rs.	Rs. 60,327	Rs.	Rs.	Rs. 60,327	Rs. 2,42,753	Rs.
Do. do. at Soonkasala ...	4,17,552	3,86,316	681	3,86,997	....	....	3,86,997	30,555	....
Do. do. at Somnashwaram ...	1,62,470	58,903	58	58,961	43	....	59,004	1,03,466	19,818
Aqueduct across the river Hindry ...	2,46,030	2,65,241	607	2,65,848	....	....	2,65,848	....	....
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, 17 1/4 miles ...	8,56,777	8,70,113	2,766	8,72,879	25	....	8,72,904	....	16,127
Do. do. 2nd do. 18th to 32nd miles ...	13,81,124	14,97,831	15,467	15,13,301	....	4,677	15,08,624	....	1,27,500
Do. do. 3rd do. 33rd to 43rd do. ...	5,84,240	6,70,295	7,789	6,78,084	....	4,261	6,73,823	....	89,583
Do. do. 4th do. 44th to 60th do. ...	9,78,698	6,75,267	5,512	6,80,779	....	179	6,80,600	2,98,098	....
Do. do. 5th do. 61st to 72nd do. ...	5,89,512	5,43,779	4,179	5,47,958	6,200	5,152	5,49,006	40,506	....
Do. do. 6th do. 73rd to 91st do. ...	3,84,434	3,17,453	1,886	3,19,339	....	6,239	3,13,100	71,334	....
Do. do. 7th do. 92nd to 114th do. ...	2,35,850	2,10,108	889	2,10,997	....	....	2,10,997	24,853	....
Do. do. 8th do. 115th to 143rd do. ...	7,36,830	2,61,508	36	2,61,544	....	....	2,61,544	4,75,286	....
	69,41,597	58,66,429	39,870	59,06,299	6,238	20,508	58,92,059	13,02,556	2,53,028
<i>Distribution</i>									
Branch channel and sluices between the 1st 17 1/4 miles of 1st Section ...	6,681	3,867	....	3,867	....	....	3,867	2,814	....
Irrigation channels and sluices for irrigating about 30,000 acres between the rivers Bowanassy and Kistna ...	10,218	3,029	16	3,045	155	....	3,200	7,018	....
Distribution works at 6th Section in the Bowanassy Division ...	10,000	1,195	46	1,241	1,507	....	2,848	7,152	559
Do. do. at Soonkasala ...	....	559	....	559	....	....	559	....	....
Kurnool Town water supply ...	1,699	1,382	....	1,382	....	....	1,382	317	....
Distribution works at the 2nd Section ...	6,000	....	155	155	4,577	....	4,732	1,268	....
Do. do. at 3rd do. ...	9,320	....	....	....	4,261	....	4,261	5,059	....
	43,918	10,032	217	10,249	10,600	....	20,849	23,628	559

Proceedings of the Madras Government, Public Works Department,
7th January 1867.

Central Hospital with out-houses and compound wall at Kurnool	4,367	4,388	....	4,388	....	....	4,388	....	21
Repairs to do. do. at do.	68	60	....	60	....	....	60	....	1,946
Office, Store-house, and Workshop at Soonkasala	4,000	5,946	....	5,946	....	....	5,946	....	36
Powder Magazine, Store, and Station roads at Bowanassy	4,359	4,359	....	4,359	....	....	4,359	....	....
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 two 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	5,200	6,356	....	6,356	....	....	6,356	....	....
Office and Store building at Valapanoor in the Bowanassy Division	1,970	5,114	....	5,114	....	....	5,114	....	3,144
Do. do. at Jupad in the Nagatore Division	4,123	3,224	21	3,245	....	....	3,245	....	....
Do. do. at Puggydial do.	3,977	3,833	....	3,833	....	....	3,833	....	....
Do. do. at Chintagoanta in Kundar	5,283	5,102	....	5,102	....	....	5,102	....	....
Office and Temporary Store shed at Ayaloor in do.	632	67	....	67	....	....	67	....	....
Quarters for Sub-Assistant Engineers and Assistant Surveyors at do.	1,236	561	....	561	....	....	561	....	....
Hospital and Apothecary's residence at Somnashwaram	2,900	2,460	....	2,460	....	....	2,460	....	....
Office buildings at do.	1,470	1,470	....	1,470	....	....	1,470	....	....
Repairs to the Anicut Office at Zorapoor	327	308	....	308	....	....	308	....	19
Overseer's Quarters, Store, Workshop, Clerk, and Pay Office at Somnashwaram	4,841	4,841	....	4,841	....	....	4,841	....	....
Office, Store, and Workshop at Kurnool	30,612	2,268	....	10,880	....	....	10,880	....	19,732
Iron and Brass Foundry at do.	15,328	16,991	....	16,991	....	....	16,991	....	1,663
Room for receiving and despatching Stores at do.	99,174	75,019	8,633	83,652	....	....	83,652	....	7,966
	70,84,689	59,51,480	48,720	60,00,200	16,868	....	59,96,560	13,49,682	2,61,553

*Proceedings of the Madras Government, Public Works Department,
7th January 1867.*

17. This Statement shows that the expenditure of the quarter was Rupees 48,720, and the net total outlay up to the end of the quarter Rupees 59,96,560.

18. The subjoined Statement shows the expenditure in excess of sanction at the end of the quarter to have been Rupees 2,61,553 :—

Works.	Excess expenditure up to 31st July 1866.	Excess expenditure during the quarter 31st October 1866.	Total.	Add amount transferred to this from other works.	Deduct re-funds.	Excess net expenditure up to 31st October 1866.
<i>Main Supply.</i>	RS.	RS.	RS.	RS.	RS.	RS.
Aqueduct across the river Hindry ...	19,211	607	19,818	...	...	19,818
South Main Canal, 1st Section ...	13,336	2,766	16,102	25	...	16,127
Do. 2nd do. Rs. 1,21,419	1,16,710	15,467	1,32,177	...	4,577	1,27,500
Deduct amount of additional sanction during the quarter .. 4,709						
South Main Canal, 3rd Section ..	86,055	7,789	93,844	...	4,261	89,583
	2,35,312	26,629	2,61,941	25	8,938	2,53,028
<i>Distribution.</i>						
Distribution at Soonkasala ...	559	.....	559	...	...	559
	559	.....	559	...	...	559
<i>Buildings.</i>						
Central Hospital at Kurnool ... Rs. 200	21	.....	21	...	...	21
Deduct amount of supplemental sanction during the quarter 179						
Office and Store buildings at Soonkasala.	1,946	.....	1,946	...	...	1,946
Do. at Valapanoor.	3,144	.....	3,144	...	...	3,144
Do. and Artificers' shed at Bowanassy	36	.....	36	...	...	36
Workshop buildings at do.	1,156	.....	1,156	...	...	1,156
Iron and Brass Foundry and room for receiving and Despatching Stores at Kurnool... .. Rs. 6,104	1,663	.....	1,663	...	...	1,663
Deduct amount of additional sanction during the quarter... .. 4,441						
	7,966	.....	7,966	...	...	7,966
Total ...	2,43,837	26,629	2,70,466	25	8,938	2,61,553

19. The Agent's attention has been called to the necessity for an early application for additional sanction for the 1st Section, Main Canal. For the 2nd and 3rd Sections advances have been sanctioned, pending the submission of revised supplemental estimates. Under Buildings the excess shown against the Central Hospital is an improper debit, and the charge requires to be transferred to the Revenue account.

20. The following estimates were received from the Agent and submitted to Government during the quarter :—

Supplemental Estimate for the Central	RS.	A.	P.
Hospital buildings at Kurnool	178	12	6
Estimate for the repair of the breaches in the 25th and 27th miles Main Canal	4,709	0	0

*Proceedings of the Madras Government, Public Works Department,
7th January 1867.*

Estimate for the re-construction of the Soonkasala anicut at the site of the old breach RS. A. P.
5,900 0 0

Revised estimate for the upper 6 miles of the Main Canal in the 6th Section... 57,510 0 0

Estimate for constructing a ring bund above the breach in the Soonkasala anicut 9,000 0 0

21. Of these the first three received the sanction of Government during the quarter, and the others have since been sanctioned.

22. The cost of the Executive Permanent Establishment for the quarter amounts to 20.80 per cent. on the expenditure for construction; that of the Establishments engaged on investigations in Bellary and Nellore to 14.4 per cent., and that of General Management to 34.00. The total cost of the permanent Establishments for the quarter is therefore 69.20 per cent. No returns of temporary Establishments, paid from estimates, have been received.

No. 103. ORDER THEREON, 7th January 1867, No. 47.

CIVIL WORKS, No. 28.

Ordered to be communicated to the Home Government.

(True Extract.)
(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

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

Exd. S. T. Augustin.

Consulting Engineer's Office
Irrigation Canal Company
Madras, 19th December 1866.

N^o 102.

9

From,

Captain, J. Mulline, R.E.

Consulting Engineer for I.C. Co.

To,

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 October 1866. —
2. In accordance with a suggestion made by the Agent I have, in supersession of previous references calling for explanation on the reports for the several months as received, called his attention to these points in the report for October which appeared to require explanation. — Mr. Henslow's reply has not as yet been received, but as I shall be absent from Madras for some little time to come, I have thought it better to submit the present report at once, and such remarks as may appear to be requisite, for the information of Government, with regard to expenditure not in accordance with sanction, will be included in my next report. —

3. — The expenditure on the Sookkavala Ament and head

lead works was Rupees 681-10-7, consisting of Rupees 14-4-7 for masonry, Rupees 64-6-4 for special superintendence and sundries, Rupees 83-4-4 for Stores, and Rupees 19-11-4 for proportion of Store charges.

The expenditure on the Hindry Aqueduct was Rupees 607-11-11, the items being

Rubble ^{stone} in chunam	481-12-
Cut stone work	40-4-
Arch work in chunam	2--
Plastering	7--
Concrete flooring	76--
Special superintendence & sundries	--

Rupees 2765-15-9 were expended on the 1st Section, 1 to 17 1/4 miles of the Main Canal, the work done being,

Excavation & Embankment Cys 70	8-12-
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Rocky excavation	4436	770-13-
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Resetting interior banks with rough stone	891	563-8-
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Culverts	12-8-
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Temporary bridge	464-10-
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Emergency repairs	52-8-
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Planting	30-2-
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Special superintendence & sundries	588-14-11
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Stores	221-13-4
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Proportion of Store charges	52-6-6
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6. The second Section from the 18th to the 32nd miles show an outlay of Rupees 15467-3-11, the items being

Excavation & Embankment Cys 15772	3230-11-3
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Rocky excavation & cutting	6140	4612-4-1
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Revetment	Sqr 72 1021	584-10-8
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Dry rubble walls	Cys 1162	913-7-11
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Clay well rammed between the above	271	185-8-
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Aqueduct at Kadra Bagh	2934-3-3
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Calingulaks	12-9-7
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Alteration of Eorty & Cardomadoo roads	44-2-1
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Closing breaches 25 1/2 miles Cys 12730 1/2	950-1-7
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Sluices	66-10-
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Repairs, strengthening of wall at foot of new bank Cys 997	250-7-2
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Special superintendence & sundries	1178-5-
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Stores	451-7-2
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Proportion of Store charges	102-11-3
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7. On the 3rd Section of the Main Canal from the 33rd to 43rd miles, there was an expenditure of Rupees 7788-10-5, the details being,

Excavation and Embankment	1455-8-8
Cub yards	400

Rocky excavation & cutting	586-465-5-8
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Revetment	Sqr 72 112	3620-14-5
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Calingulaks	104-2-
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Scouring sluices	144-13-7
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Sluices	5--
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Shingle	840-
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Special superintendence & sundries	953-9-9
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Stores	161-2-3
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Proportion of Store charges	38-2-1
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8. On the 4th Section or miles 44 to 60 of the Canal, Rupees 5511-14-11 were expended on,

Excavation and Embankment	2496-2-7
Cub yards	1426

Bridge	5-7-
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Calingulaks	
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Calingulaks 179-2-1

Culverts 1833-13-3

Catch water drain Cyp 220 29-10-9

Plant & Contingencies 967-12-4

9. On the 5th Section of the Main Canal from the 61st to 72nd miles there was an expenditure of Rupees 4178-15-10, the items being,

Excavation & Embankment Cyp 169-228-2-10

Catch water drain 1975-227-7-2

Terraced & fully aqueduct 878-2-2

Bridge on road from Mettacondal to Terragoodoor 49-14-7

Culverts 1715-5-9

Seowing sluice and channel 59-6-9

Contingencies 1020-8-7

10. On the 6th Section, or miles 73rd to 91st, of the Canal Rupees 1886-4-8 were expended on,

Excavation & Embankment 79-11-10

Single and double culverts 6-14-1

Locks 915-3-11

Bridges 163-15-6

Special superintendence & sundries 720-7-4

11. The outlay on the 7th Section miles 92nd to 114th amounts to Rupees 888-2-7, being for, 13

Ament & head works 191-12-1

Culverts 149-14-11

Calingulaks 34-3-10

Bridges 46-4-11

Mundial Tank 346-12-5

Special superintendence & sundries

12. The outlay on the 8th Section miles 115 to 143 was Rupees 35-9-4, being for Special superintendence and sundries.

13. The expenditure on the Somaswarani Ament and head works was Rupees 58-3-5, consisting of Rupees 47-1-2 for Stores, and Rupees 11-2-3 for proportion of Store charges.

14. The expenditure on works of distribution was Rupees 217-4-4, of which Rupees 155-4-9 were expended on the 2nd Section, Rupees 16-4-4 on the branch channels and sluices in the 4th Section or Nagatone Division, and Rupees 45-7-7 on the distribution channels in the 6th Section.

15. The expenditure on Buildings was Rupees 8632-10-3, consisting of the following items
Office & Store buildings at Tupad 20-12-4
Office, Store & Workshop at Kurnool 611-13-11

16. The following abstract shows the expenditure on all works from the commencement to the close of the quarter, compared with the same estimates.

Worth.

Main Supply.

Amount of the 31 st the 2 ^d Section	Expenditure	Amount	Expenditure	Amount
of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866
30,3080	60327	60327	60327	242753
417552	386997	386997	386997	30555
162470	58964	58964	58964	103466
246030	265241	265241	265241	19818
65000	49285	49285	49285	5716
856777	870113	870113	870113	16127
1381124	1497834	1497834	1497834	127500
584240	670295	670295	670295	89583
978698	675267	675267	675267	29298
589512	523779	523779	523779	40506
384434	317453	317453	317453	71334
235850	210108	210108	210108	24853
736830	261508	261508	261508	478286
6941597	5866429	5866429	5866429	253021

Distribution.

Branch channel and ditches between the first 17 1/4 miles of 1 st Section	Expenditure	Amount	Expenditure	Amount
of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866
10218	3029	3029	3029	7018
10000	1195	1195	1195	7152
1699	1382	1382	1382	317
8000	155	155	155	1268
9320	10249	10249	10249	5089
43918	10032	10032	10032	23628

Buildings.

Central hospital with out houses & compound wall at turnout.	Expenditure	Amount	Expenditure	Amount
of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866
4367	4388	4388	4388	21
68	60	60	60	8
4000	5946	5946	5946	1946
4359	4359	4359	4359	36
7298	7334	7334	7334	168
168	168	168	168	168
578	318	318	318	260
427	19	19	19	408
5200	6356	6356	6356	1156
1970	5114	5114	5114	3144
4123	3224	3224	3224	878
3977	3833	3833	3833	144
5283	5102	5102	5102	181
642	67	67	67	575
1236	561	561	561	675
2900	2460	2460	2460	440
1470	1470	1470	1470	1470
327	308	308	308	19
4841	4841	4841	4841	4841
30612	2268	2268	2268	10880
15328	16991	16991	16991	16991

Establishments.	Expenditure	Amount	Expenditure	Amount
of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866	of July 1866 ending 31 st Oct 1866
99174	75019	75019	75019	23288
3084689	645480	645480	645480	132682

17. This Statement shows that the expenditure of the quarter was Rupees 48,720 and the net total outlay up to the end of the quarter Rupees 59,965.60

18. The subjoined Statement shows the expenditure in excess of sanction at the end of the quarter to have been Rupees 2,61,553.—

Works.	Excess expenditure up to 31 st July/66.	Excess expenditure during the 2 nd 3 rd 4 th 1866.	Total.	Amount transferred from other works.	Debit.	Refunds.	Excess net expenditure up to 31 st July/66.
<u>Main Supply.</u>							
Aqueduct across the river Hindry	19211	607	19818	"	"	"	19818
South Main Canal - 1 st Section	13336	2766	16102	25	"	"	16127
Do 2 nd Do	121419						
Reduct amount of additional sanction during the 2 nd 3 rd 4 th } 4709	116710	15467	132177	"	4677		127500
South Main Canal - 3 rd Section	86055	7789	93844	"	2261		89583
	235312	26629	261941	25	8938		253028
<u>Distribution</u>							
Distribution at Sontkaxala	559	"	559	"	"		559
	559	"	559	"	"		559
<u>Buildings.</u>							
Central hospital at Turnool	200		21	"	"		21
Reduct amount of Sup. sanction during the 2 nd 3 rd 4 th } 21	21	"	1946	"	"		1946
Office & Store buildings at Sontkaxala	1946	"	3144	"	"		3144
Do at Valaparnoor	3144	"	36	"	"		36
Do and artificers sheds at Bowanasay.	36	"	1156	"	"		1156
Workshop buildings at Do	1156	"		"	"		
Cross & brass foundry & room for receiving & despatching stores at Turnool	6104		1663	"	"		1663
Reduct amount of additional sanction during the 2 nd 3 rd 4 th } 1663	7966	"	7966	"	"		7966
	243837	26629	270466	25	8938		261553

19. The Agent's attention has been called to the necessity for an early application for additional sanction for the 1st Section, Main Canal. For the 2nd and 3rd Sections advances have been sanctioned, pending the submission of revised supplemental estimates

estimates. Under buildings the excess shown against the Central Hospital is an improper debit, and the charge requires to be transferred to the Revenue account.

20. The following estimates were received from the Agent and submitted to Government during the quarter.—

Suppl. Estimate for the Central Hospital } 178-12-6
Buildings at Turnool }
Estimate for the repair of the breaches } 4709-
in the 25th and 27th miles Main Canal }
Do for the reconstruction of the Sontkaxala } 5900-
Ancient at the site of the old breach }
Revised Estimate for the upper 6 miles of } 57500-
the Main Canal in the 6th Section }
Estimate for constructing a ring bund above } 9000-
the breach in the Sontkaxala Ancient }

21. Of these the first three received the sanction of Government during the quarter, and the others have since been sanctioned.—

22. The cost of the Executive permanent Establishment for the quarter amounts to 20.80 per cent on the expenditure for construction; that of the Establishments engaged on investigations in Bellary and Nellore to 14.4 per cent, and that of General Management to 34.00. The total cost of the permanent establishment for the quarter is therefore 69.20 per cent.— No returns of temporary Establishments

Establishments paid from Estimates, have been
received.

I have the honor to be,

Sir,

Your most obedient servant,

Wm. Luntz's Captain P.E.

Counselor for L.H. Company.

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47

Charles 28

So
The Co-Engineers
Dec 22 1863

1047

Edward A. Mearns

The Secretary to Land
W. A. A.

Communicated to
the House Sept

Booked 197
Dec 27 1886

Feb. 17. 1867

Submitted Separately to
Congress

Thos St George
7th Jan'y 1867



15-10

102. 103.

C. 22 Jan 1867 M. 78

Company owning the
 Lands survey 31st
 October, 1888.
 Pitt and Hall

4 20 CS per the 3
4 20 Increase do do
20
3

Sept 12 - January