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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 17 $\frac{1}{4}$ 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

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	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

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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:—

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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 Sonnashwaram ...	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

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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 Puggidial 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	....	....
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	8,613	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

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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	86,055	7,789	93,844	...	4,261	89,583
South Main Canal, 3rd Section ..	2,35,312	26,629	2,61,941	25	8,938	2,53,028
<i>Distribution.</i>						
Distribution at Soonkasala ...	559	.....	559	...	...	559
<i>Buildings.</i>						
Central Hospital at Kurnool ... Rs. 200	21	.....	21	...	...	21
Deduct amount of supplemental sanction during the quarter 179	1,946	.....	1,946	...	...	1,946
Office and Store buildings at Soonkasala. 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 Hospital buildings at Kurnool	RS.	A.	P.
Estimate for the repair of the breaches in the 25th and 27th miles Main Canal	178	12	6
	4,709	0	0

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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 Cy ² 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 Cy ² 15772	3230	11-3
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Rocky excavation & cutting	6140	4612-4-1
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Revetment	Sq. Yds 1021	584-10-8
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Dry rubble walls	Cy ² 1162	913-7-11
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Clay well rammed between the above	271	185-8-
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Aqueduct at Kadragah	2934	3-3
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Calingulaks	12	9-7
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Alteration of Eoty & Cardomadoo roads	44	2-1
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Closing breaches 25 1/2 miles Cy ² 12780 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 Cy ² 997	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	Sq. Yds 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

Amient & head works	191-12-1
Culverts	119-3-4
Calingulaks	149-14-11
Bridges	34-3-10
Mundial Tank	46-4-11
Special superintendence & sundries	346-12-5

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 Amient 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
30,3080	60327	60327	242753	
417552	386997	386997	30555	
162470	58964	58964	103466	
246030	265241	265241	19818	
65000	49285	49285	15716	
856777	870113	872879	16127	
1381124	1497834	1513301	127500	
584240	670295	678084	89583	
978698	675267	680779	29298	
589512	523779	547958	40506	
384434	317453	319339	71334	
235850	210108	210997	24853	
736830	261508	261524	478286	
6941597	6866429	69870	5906299	6268
			20508	5892059
			1302566	253021

Distribution.

Branch channel and ditches between the first 17 1/4 miles of 1 st Section	Expenditure	Amount	Expenditure	Amount
10218	3029	16	3045	155
10000	1195	46	1241	1607
	559		559	
1699	1382		1382	317
8000		155	155	1268
9320			4261	5089
43918	10032	217	10249	10600
				20819
				23628
				539

Buildings.

Central hospital with out-houses & compound wall at turn-out.	Expenditure	Amount	Expenditure	Amount
Repairs to Do	4388		4388	21
Office Store house & workshop at Sontkassala.	60		60	8
Powder Magazine, Store & Station roads at Bonanassy	4000		5946	1946
Office & Store room & Artificers shed at Do	4359		4359	
Repairing the above buildings at Do	7298		7334	36
Improvement of the road approaching to the above buildings and repairing 2 culverts at Do	168			168
Converting the unfinished building intended for a gun Powder Manufactory into a hospital at do	578		318	260
Workshop building at Bonanassy	427		19	408
Office & Store building at Valapanoor in the Bonanassy Do	5200		6356	1156
Do at Enpadi in the Nagastore Do	1970		5114	3144
Do at Pappayal Do	4123		3245	878
Do at Chintapomukha in trindar Do	3977		3833	144
Office and temporary store shed at Ayaloor in Do	5283		5102	181
Quarters for Sub Assistant Engineer & Assistant Surveyors at Do	642		67	575
Hospital & Apothecarys residence at Somaiyaram Do	1236		561	675
Office buildings at Do	2900		2460	440
Repairs to the Amint Office at Yorapoor	1470		1470	
Overseers quarters, Store, Workshop, Clerk & Pay office at Somaiyaram	327		308	19
Office, Store Workshop at turn-out.	4841		4841	
Do & Bracontery at Do	30612		2268	10880
Room for receiving & despatching stores at Do	15328		16991	1663

Establishments.

99174	75019	8638	83652	23288	7966
3084689	645480	48720	660200	16860	20508
					599550
					132682
					74153

gains

R.

15

1663

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	1946	"	1946	"	"		1946
Office & Store buildings at Sontkaxala	3144	"	3144	"	"		3144
Do at Valaparnoor	36	"	36	"	"		36
Do and artificers sheds at Bowanasay.	1156	"	1156	"	"		1156
Workshop buildings at Do							
Iron & brass foundry & room for receiving & despatching stores at Turnool } 1663	6104		1663	"	"		1663
Reduct amount of additional sanction during the 2 nd 3 rd 4 th } 4441	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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Canal Works 28

So
The Co-Engineers
Dec 22 1863

1047

David Lee

The Secretary to Court
W. A. H.

Dec 27th 1876

Communicated to
the House Sept.

Feb. 17. 1867

Thos St George
17th Jan'y 1867



Submits report on the
progress made in the
work of the Alaska
Irrigation and Canal
Company during the
summer ending 31st
October, 1888.
With enc. 84.

15-10

102. 103.

C. 22 Jan 1867 M. 78

Thos H. George }
Jan'y 1867 }



4 to CS for the 23
4 to Successor of the

6/20

Sept 12 - January