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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

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*Proceedings of the Madras Government, Public Works Department,
20th May 1865.*

No. 426. Read the following letter from Captain J. MULLINS, R. E., Consulting Engineer for Irrigation and Canal Company, to Colonel C. A. ORR, R. E., Secretary to Government, Department of Public Works, dated Madras, 9th May 1865, No. 4:—

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 1864.

2. The expenditure on the Soonkasala anicut and head works was Rupees 529-14-11, consisting of Rupees 528-15-11 for special superintendence and sundries, and 15 Annas for masonry.

3. The expenditure on the Hindry aqueduct was Rupees 5,054-12-7, the items being rubble stone in chunam, cubic yards 558, Rupees 1,837-5-6:—

	RS.	A.	P.
Cut stone work	60	0	0
Centrings	463	1	2
Plastering and cornice	368	11	7
Special superintendence and sundries	2,325	10	4

4. Rupees 31,004-3-0 were expended on the 1st Section of the Main Canal, from the 1st to 17½ miles, the work done being—

	RS.	A.	P.
Excavation and embankment, cubic yards 54,753	8,280	0	6
Revetting interior banks with rough stone, do. 21,003	14,141	4	11
Rubble in lime revetment to banks in upper approach to the Hindry aqueduct, do. 1,849	681	12	8
Culverts	1,154	9	5
Calingulahs	455	6	5
Bridge	93	15	0
Special superintendence and sundries	6,197	2	1

5. The 2nd and 3rd Sections of the Main Canal, from the 18th to the 43rd miles, show an outlay of Rupees 1,95,927-1-3, and the items are:—

	RS.	A.	P.
Excavation and embankment, cubic yards 4,07,237	77,661	6	4
Aqueduct on the 23rd mile	3,386	12	0
Calingulahs 219	1,131	4	0
Bridges 27	521	9	2
Tunnels	27	0	0
Masonry wall 20,696	45,936	2	11
Syphon sluice	676	0	8
Revetment and masonry at the 18th mile 3,885	43,185	12	0
Alterations of road 5,179	2,146	15	2
Special superintendence and sundries	21,253	3	0

6. On the 4th and 5th Sections of the Canal, from the 44th to 72nd miles, there was an expenditure of Rupees 1,01,630-5-4, the details being:—

	RS.	A.	P.
Excavation and embankment, cubic yards 4,23,355	72,206	7	1
Revetments and pitching, square yards 12,106	6,197	15	7
Aqueduct on the 63rd mile cubic yards 1,028	1,407	5	2
Bridges	3,556	1	5
Calingulahs 1,412	1,998	4	7
Culverts 1,071	7,345	2	10
Return bund 44,631	2,538	6	9
Scouring sluice 297	521	3	4
Special superintendence and sundries	5,859	6	7

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7. On the 6th Section, or miles 73rd to 91st of the Canal, Rupees 37,738-8-6, were spent on—

	RS.	A.	P.
Excavation and embankment, cubic yards 69,932	12,216	4	4
Culverts	129	3	9
Locks	11,428	12	4
Bridge	678	10	0
Sluice	1,535	7	6
Special superintendence and sundries	3,546	10	3
Channel for discharging the surplus water below the Metacodal cut	8,203	8	4

8. The outlay on the 7th Section, miles 92nd to 114th, amounts to Rupees 21,883-15-10, being for—

	RS.	A.	P.
Excavation and embankment, cubic yards 1,42,642	11,710	1	7
Anicut and head works	2,765	13	1
Regulating lock	617	0	9
Culverts	709	9	8
Calingulahs	814	3	10
Bridges	2,091	3	8
Special superintendence and sundries	3,175	15	3
9. The outlay on the S. L. Canal			

9. The outlay on the 8th Section, miles 115th to 143rd, was Rs. 31,197-3-11, the items being—

Excavation and embankment, cubic yards	2,23,840	...	RS.	A.	P.
Locks	...	...	23,422	2	6
Calingulahs	...	...	1,921	1	7
Special superintendence and sundries	...	...	1,728	8	0
10. The aricut and lock	...	...	4,125	7	10

10. The anicut and head works at Somaishweram show an expenditure of Rupees 9,997-5-1, consisting of Rupees 6,215-3-0 on the body of the anicut, and Rupees 90 on the arch and pier of sluice, Rupees 167-13-0 for windlasses, Rupees 997-11-11 for railway and waggons, and Rupees 2,526-9-2 for special superintendence and sundries.

* Branch channels and sluices between the 1st and 17 $\frac{1}{4}$ miles in the 1st Section of the main Canal.

11. The expenditure on works of distribution* was Rupees 892-14-3.

12. The expenditure on buildings was Rupees 2,129-4-1, consisting of the following items:—

	RS.	A.	P.
Office and Store building at Valapanore in Bowanassy Division	697	0	9
Do. do. at Jupaud in Nagatore Division ...	44	4	0
Do. do. at Chintagoontah in Koondaur do....	882	2	9
Quarters for Sub-Assistant Engineer, and Assistant Surveyor in Koondaur Division	24	3	6
Hospital at Somaishweram	481	9	1

13. 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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20th May 1865.*

Works.	Amount of the estimate.	Expenditure up to 31st July 1864.	Cost in the quarter ending 31st Oct. 1864.	Total expenditure.	Deduct refunds.	Total net expenditure.	AMOUNT.	
							Available.	In excess of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
<i>Main supply.</i>								
Anicut and head works at Kurnool...	3,03,080	66,509	.....	66,509	.....	66,509	.....	
Do. do. at Soonkasala ...	1,25,000	3,19,828	530	3,20,358	.....	3,20,358	1,95,358	
Do. do. at Somaishweram...	1,62,470	24,270	9,997	34,267	.....	34,267	.....	
Aqueduct across the river Hindry at Kurnool	2,18,753	2,12,247	5,055	2,17,302	.....	2,17,302	.....	
Canal for one mile from the head sluice of the Kurnool anicut ...	65,000	49,211	.....	49,211	.....	49,211	.....	
South main canal, 1st Section 17½ miles ...	8,56,777	7,35,124	31,004	7,66,128	.....	7,66,128	.....	
Do. do. 2nd and 3rd do. from 18th to 43rd miles.	7,63,560	10,53,142	1,95,927	12,49,069	.....	12,49,069	4,85,509	
Do. do. 4th and 5th do. 44th to 72nd do.	7,90,755	5,66,290	1,01,631	6,67,921	.....	6,67,921	.....	
Do. do. 6th do. 73rd to 91st do.	3,84,434	1,51,139	37,738	1,88,877	.....	1,88,877	.....	
Do. do. 7th do. 92nd to 114th do.	2,35,850	74,490	21,884	96,374	.....	96,374	.....	
Do. do. 8th do. 115th to 146th do.	4,37,410	49,350	31,197	80,547	.....	80,547	.....	
	43,43,089	33,01,600	4,34,963	37,36,563	.....	37,36,563	6,80,867	
<i>Distribution.</i>								
Branch channels and sluices between the first 17½ miles of the 1st Section, south Main Canal ...	5,520	3,530	893	4,423	.....	4,423	.....	
<i>Buildings.</i>								
Central Hospital with out-houses and compound wall at Kurnool ...	2,540	4,196	.....	4,196	.....	4,196	1,656	
Repairs to do. do. do. ...	68	.....	.....	.....	.....	.....	.....	
Office, Store house and Workshop at Soonkasala...	4,000	7,791	.....	7,791	.....	7,791	3,791	
Office, Store house, and Artificers' shed at Bowanassy	7,298	7,466	.....	7,466	.....	7,466	.....	
Repairs to do. do. do. ...	168	.....	.....	.....	.....	.....	.....	
Roads and bridges at Bowanassy ...	.....	3,868	.....	3,868	.....	3,868	3,868	
Improving the above road, and repairing the culverts on it.	578	.....	.....	.....	.....	.....	.....	
Central Office, Overseer's hut ...		1,245		1,245		1,245	1,245	
Office, temporary Store sheds, &c., at Ayalore ...	642	67		67		67		

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20th May 1865.*

Works.	Amount of the estimate.	Expenditure up to 31st July 1864.	Cost in the quarter ending 31st Oct. 1864.	Total expenditure.	Deduct refunds.	Total net expenditure.	AMOUNT.	
							Available.	In excess of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Buildings.—(Concluded.)</i>								
Permanent Office and Store at Jupaud in Nagatore	2,240	2,469	44	2,513	.....	2,513	.....	273
Office and Store at Pugidial in do.	3,030	2,724	.....	2,724	.....	2,724	.....	.....
Do. at Chintagoontah in Koondaur	3,552	3,424	882	4,306	.....	4,306	.....	754
Converting the unfinished building intended for a Gun Powder Manufactory into an Hospital at Bowanassy	427	12	.....	12	.....	12	.....	.....
Office and Store building at Valapanoor in do.	1,970	3,656	697	4,353	.....	4,353	.....	2,383
Quarters for Sub-Assistant Engineers and Assistant Surveyors in the Koondaur	468	625	21	649	.....	649	.....	181
Hospital and Apothecary's residence at Somaishweram	2,900	1,067	482	1,549	.....	1,549	.....	.....
Office building at Somaishweram	.....	1,470	.....	1,470	.....	1,470	.....	1,470
	29,881	40,080	2,129	42,209		42,209	3,293	15,621
	43,78,490	33,45,210	4,37,985	37,83,195		37,83,195	12,91,783	6,96,488

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14. This Statement shows that the expenditure of the quarter by cash was Rupees 4,37,985, and the net total outlay Rupees 37,83,195, the value of stores issued during the quarter has not been, as yet, adjusted.

15. The subjoined Statement shows the expenditure in excess of sanction to be Rupees 1,51,692 more than that noticed in my last report:—

Works.	Excess expenditure up to 31st July 1864.	Excess expenditure during the quarter ending 31st Oct. 1864.	Total.	Deduct refunds.	Net excess expenditure up to 31st October 1864.
	RS.	RS.	RS.	RS.	RS.
<i>Main Supply.</i>					
Anicut and head works at Soonkasala	1,94,828	530	1,95,358	.....	1,95,358
South main Canal, 2nd and 3rd portions of the 1st Section	3,12,672	.....	.....	.....	.....
Rupees	2,89,582	1,95,927	4,85,509	.....	4,85,509
Deduct the amount of estimates sanctioned during the quarter Rs. 23,090					
<i>Buildings.</i>					
Central Hospital at Kurnool	1,656	.....	1,656	.....	1,656
Office and Store at Soonkasala	3,791	.....	3,791	.....	3,791
Roads, bridges, &c., at Bowanassy.	3,868	.....	3,868	.....	3,868
Central Office Overseer's shed	1,245	.....	1,245	.....	1,245
Office and Store at Jupaud in Nagatore Division	229	44	273	.....	273
Do. at Chintaguntah in Koondaur	739	882	1,621	.....	754
Deduct the amount of the supplemental estimate sanctioned in this quarter	.....	867	867	.....	.....
Office and Store at Valapanoor in Bowanassy	1,686	697	2,383	.....	2,383
Quarters for Sub-Assistant Engineers and Assistant Surveyors in Koondaur Division	157	24	181	.....	181
Office building at Somaishweram	1,470	.....	1,470	.....	1,470
	4,99,251	1,97,237	6,96,488	.....	6,96,488

The expenditure on the Soonkasala anicut has exceeded by Rupees 10,708 the estimates sanctioned. This is doubtless owing to the breach for the repair of which an estimate Rupees 37,180 was submitted with my letter of the 25th April 1865, No. 246. The rest of the excess expenditure under the head of Main Supply has been covered by supplemental sanctions. The outlay above the sanctioned estimate, Rupees 1,970, on the Valapanoor station building has increased in this quarter to Rupees 2,383, or much more than 100 per cent. The Chintagoontah station building, notwithstanding a supplemental sanction of Rupees 867, shows an excess of Rupees 754. The other items under Buildings have been noticed in former reports.

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

	RS.
1. Revised estimate for revetting the banks of the main Canal in the 4th Section	92,545
2. Plans and estimates of the 9th Section South Main canal	8,04,500
3. Do. of the Rajoly anicut in the 9th Section	1,285

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4. Supplemental estimate of the office and store in the Koon-
daur Division ... RS. 867
5. Plan and estimate for the Office and Workshop, &c., at
Nellore ... 10,700
6. Supplemental estimate for earthwork in the 5th Section ... 1,16,650
- Of these the first four estimates received the sanction of Government during the
quarter, together with five others which were previously submitted, viz. :—

Estimate for the repairs of the Kurnool Hospital ...	RS. 63
Do. do. of the Anicut, Office, Out-houses, and compound wall at Zorapore ...	327
Do. Aqueduct and embankment for the Nellore valley ...	60,590
Do. do. Teroogopully valley ...	88,457
Supplemental estimate for the earthwork in the 4th Section ...	65,900

17. The expenditure on works including special superintendence and sundries
was, as shown in paragraph 13 above, Rupees 4,37,985-8-9, the included superin-
tendence and sundries being Rupees 54,195-14-6, of which Rupees 22,336-10-9 or
5.37 per cent. appear from the quarterly Statements to have been for temporary
establishment. The cost of the permanent Establishment debited to Construction
was, for the same period, Rupees 68,344-0-6, or 16.44 per cent., but deducting the pay
of those establishments* engaged exclu-
sively on survey operations, this part of
the superintendence cost 10.6 per cent.,
so that the per-centage of special and per-
manent establishments engaged on works
was 15.97. The per-centage of the con-
trolling establishment for this quarter
was 6.599. Subjoined are the particulars
of the cost of permanent and special temporary establishments in the several Divisions
for the quarter ending 31st October 1864 :—

* Pennair Division...	RS. 8,453	A. 11	P. 0
Reservoir survey or Bellary Division ...	10,421	11	9
Gundicottah tank survey ...	5,392	13	0
Total...	24,268	3	10

	SUPERINTENDENCE.			Expenditure on construction, exclusive of temporary superinten- dence.
	Permanent as per pay abstract.	Temporary taken from the Quarterly Statement.	Total.	
Construction.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Hindry Division, including Soon- kasala Sub-Division ...	10,632 0 0	10,277 8 0	20,909 8 0	2,23,131 6 0
Nagatore and Bowanassy Division ...	16,543 0 0	9,104 2 9	25,647 2 9	1,52,889 15 8
Koondaur Division ...	7,494 11 1	1,683 0 0	9,177 11 1	30,420 10 2
Nellore Division, including Somaish- weram anicut ...	9,406 1 7	1,272 0 0	10,678 1 7	9,206 14 2
Total...	44,075 12 8	22,336 10 9	66,412 7 5	4,15,649 14 0

These charges are very moderate for the Hindry and fairly so for the Nagatore and
Bowanassy Divisions. In the Koondaur Division also there is an improvement, and
as regards the temporary establishment the per-centage is much more satisfactory.
The Nellore Division also has reduced the proportion between the cost of temporary
establishment, and the outlay on works, though a considerable further decrease is
desirable.

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20th May 1865.

No. 427. ORDER THEREON, 20th May 1865, No. 1,379.
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 Irrigation and Canal Company.
,, Manager for do. do.

N: 4:

Consulting Engineer's Office
Irrigation & Canal Co.
Madras 9 May 1865

From
To
The Secretary to Government
Department of P. W.

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 1864 -

2. The expenditure on the Sontkala ament and head works was Rupees 529-14-11, consisting of Rupees 528-15-11 for Special Superintendence and Sundries, and 15 Annas for Masonry -

3. The expenditure on the Hindry aqueduct was Rupees 5054-12-7, the items being Rubble - stone in chunnam Cubic yards 558 - Rupees 1837-5-61
but stone work 60
Cutting 463-1-2
Plastering and Cornice 368-11-7
Special Superintendence & Sundries 2325-10-4

4. Rupees 31,004-3- were expended on the 1st section of the Main Canal from the 1st to 17 1/4 miles the work done being:-

	Rs.	a.	p.
Excavation and Embankment 6-7-8	54,753	8,280	6
Revetting interior banks with rough stone	21,003	14,141	4-11
Rubble in line pavement to banking upper approach to the Hindry aqueduct	5	1849	681-12-8
Churners			11,54-9-5
Celebrations			455-6-5
Bridge			93-15-
Special Superintendence & Sundries			6,197-2-1

5. The 2nd and 3rd Sections of the Main Canal from the 18th to the 45th mile shew an outlay of Rupees - 195,927-1-3 and the items are:-

	Qyds.	Rs. as p.
Excavation and Embankment	407,237	77,661-6-4
Aqueduct on the 23 rd mile		3,386-12-4
Calingulaks	219	11,31-4-4
Bridges	27	521-9-2
Tunnels	27	27-0-0
Masonry wall	20,696	45,936-2-11
Syphon sluice		677-0-8
Reinment & Masonry at the 18 th mile	3885	43,185-12-4
Alterations of Road	5779	2,146-15-2
Special Superintendence and Sundries		27,253-3-4

6. On the 4th and 5th sections of the Canal, from the 45th to the 72nd mile, there was an expenditure of Rupees 101,630-5-4. The details being:-

	Qyds.	Rs. as p.
Excavation and Embankment	4,23,355	72,206-7-1
Reinment & pitching square joints	12,106	6,197-15-7
Aqueduct on the 63 rd mile	1,028	1,407-5-2
Bridges		3,556-1-5
Calingulaks	1412	1,998-4-7
Culverts	1,071	7,345-2-10
Return Band	44,631	2,538-6-9
Scouring Sluice	2,977	521-3-4
Special Superintendence and Sundries		5,859-6-7

7. On the 6th Section, or miles 73rd to 91st of the Canal, Rupees 377,38-8-6 were spent on:-

	Qyds.	Rs. as p.
Excavation & Embankment	69,932	12,216-4-4
Culverts		129-3-9
Locks		11,428-12-4
Bridge		678-10-4
Sluice	12,311	15,35-7-6
Special Superintendence and sundries		3,546-10-3
Channel for discharging the surplus water below the mettaemdal cut		8,203-8-4

8. The outlay on the 7th Section, miles 92nd to 114th, amounts to Rupees 2,1883-15-10 being for:-

	Qyds.	Rs. as p.
Excavation and Embankment	142,642	11,710-1-7
Aricut and Headworks		2765-13-1
Regulating lock		617-4-9
Culverts		709-9-8
Calingulaks		814-3-10
Bridges		2091-3-3
Special Superintendence & Sundries		3775-15-3

9. The outlay on the 8th Section, miles 115 to 143, was Rupees 31,197-3-11. The items being:-

	Qyds.	Rs. as p.
Excavation and Embankment	2,23,840	23,422-2-6
Locks		1921-1-7
Calingulaks		1728-8-4
Special Superintendence and Sundries		4125-7-10

10. The aricut and head works at Somaiswaram shew an expenditure of Rs. 9,997-5-1. Consisting of Rupees 6,215-3-4 on the body of the aricut, and Rupees 90 on the arch and pier of sluice; 167-13-4 for masonry cases, Rs. 997-11-11 for Railway and waggons, and Rs. 2,526-9-2 for Special Superintendence and Sundries.

* Branch Channels and sluices between the 1st & 2nd sections of the Main Canal.

11. The Expenditure on works of Distribution was Rupees 892-14-3.

12. The expenditure on Buildings was Rupees 2129-4-1 Consisting of the following items:-

Office and Store building at Valapanore in Pawanmudi Division	697-0-9
at Jupans in Nagatore	44-4-4
at Chintagondah in Konda	882-2-9
Quarters for Sub. Asst. Engr. and Asst. surveyor in Konda	24-3-6
Hospital at Somaiswaram	481-9-1

13. The following Abstract shews the expenditure on all works from the commencement to the close of the quarter compared with the sanctioned estimates.

Works	Amount of the Estimate	Expenditure up to 31 st July 1864	Cost in the Quarter ending 31 st October 1864	Total Expenditure	Amount of the Estimate	Amount of the Estimate
Main Supply						
Aricut and headworks at Kurnool	30,080	66,509		66,509	2,36,571	
W: W: Sookasala	12,500	3,19,828	530	3,20,358	3,20,358	1,95,368
W: W: Somasueram	16,247	24,270	9,997	34,267	34,267	1,28,203
Aqueduct across the river Hindry at Kurnool	218,753	212,247	5,055	217,302	217,302	1,457
Canal for one mile from the head of the Kurnool	65000	49,211		49,211	49,211	15,789
South Main Canal 1 st Section 17 1/4 miles	85,677	7,35,124	31,004	7,66,128	7,66,128	90,649
W: W: 2 1/2 W: from 18 to 43 miles	7,63,560	10,53,142	1,95,927	12,49,069	12,49,069	4,85,509
W: W: 4 1/2 W: 44 to 72 miles	7,90,755	5,66,290	10,1631	6,67,921	6,67,921	1,22,834
W: W: 6 W: 73 to 91 miles	3,84,434	1,51,139	37,738	1,88,877	1,88,877	1,95,557
W: W: 7 W: 92 to 114 miles	23,5850	74,490	21,882	96,374	96,374	13,9476
W: W: 8 W: 115 to 146 miles	4,37,410	49,350	31,197	80,547	80,547	3,56,863
	4,34,3089	33,01,600	4,34,963	37,36,563	37,36,563	12,87,393
Distribution						
Branch Channels and Sluices between the 1 st 17 1/4 miles of the 1 st Section South Main Canal	5,520	3,530	893	4,423	4,423	10,977
Buildings						
Central Hospital without houses & compound wall at Kurnool	2,520	4,196		4,196	4,196	1,656
Repairs to W: W: W: Sookasala	68				68	
Office Store house & workshop at Sookasala	4,000	7,791		7,791	7,791	3,791
W: W: 8 artificers shed at Bawanasey	7,298					
Repairs to W: W: W: at W:	168	7,466		7,466	7,466	
Roads and Bridges at W:		3,868		3,868	3,868	3,868
Improving the above road & repairing the culverts on it	578				578	
Central Office overseer's hut		12,45		12,45	12,45	12,45
Office temporary Store sheds at Agalaw	642	67		67	67	575
Permanent Office and Store at Jupand in Nagatona	2,240	2,469	44	2,513	2,513	273
Office and Store at Poggadial in W:	3,030	2,724		2,724	2,724	306
W: at Chintagootab in Hoondan	3,552	3,424	882	4,306	4,306	754
Converting the unfinished building intended for a gunpowder Manufactory into an Hospital at Bawanasey	427	12		12	12	415
Office and Store building at Talapanoot in W:	1,970	3,656	697	2,353	2,353	2,383
Quarters for Sub Off. Surg. & 1st Surgons in Hoondan	468	625	24	649	649	181
Hospital & Apothecary's residence at Somasueram	2,900	10,67	482	15,49	15,49	1,351
Office building at Somasueram		14,70		14,70	14,70	14,70
	29,881	40,080	2,129	42,209	42,209	32,93
	4,378,490	33,45,210	4,37,985	37,83,195	37,83,195	12,91,783
						6,96,488

14. His statement shows that the expenditure of the quarter by Cash was Rupees 4,379.85, and the net total outlay Rupees 37,83,195. The value of stores issued during the quarter has not been, as yet, adjusted.

15. The subjoined statement shows the expenditure in excess of sanction to be Rupees 157,692 more than that noticed in my last report.

Works	Excess Expenditure up to 31st July 1865		Excess Expenditure during the quarter ending 31st October 1865		Total	Net Excess	
	up to 31st July 1865	during the quarter ending 31st October 1865	up to 31st July 1865	during the quarter ending 31st October 1865		up to 31st July 1865	during the quarter ending 31st October 1865
Main Supply							
Ancient and new works at Sookkasala	1948.28	530	1953.58		1953.58		1953.58
South Main Canal S. & D. portions of the 1st Section	Rs 8,126.72	289.582	195.927	485.509			485.509
Deduct the amount of estimates sanctioned during the quarter	230.90						
Buildings							
Central Hospital at Kurnool	1,656		1,656		1,656		1,656
Office and Store at Sookkasala	3,791		3,791		3,791		3,791
Roads, Bridges &c at Bawanaseef	3,868		3,868		3,868		3,868
Central Office Ammunition shed	1,245		1,245		1,245		1,245
Office & Store at Jupand in Nagatona	229	44	273		273		273
Office & Store at Chintaguntah in Hoondard	739	882	1,621				
Deduct the amount of the Suppl. Estimate sanctioned in this quarter		867	867				754
Office & Store at Valapanoor and Bawanaseef	1,686	697	2,383		2,383		2,383
Quarters for Sub. & Asst. Surveyors in Hoondard	157	24	181		181		181
Office Building at Comaiveram	1,470		1,470		1,470		1,470
	49,925.11	197,237.69	69,664.88		69,664.88		69,664.88

The expenditure on the Sookkasala ancient has exceeded by Rupees 10,708 the estimates sanctioned. This is doubtless owing to the breach for the repair of

of which an estimate Rupees 37,180 was submitted with my letter of the 25 April 1865 No 246. The rest of the excess expenditure under the Head of Main Supply has been covered by supplemental sanctions. The outlay above the sanctioned estimate Rupees 19,70, on the Valapanoor Station building has increased in this quarter to Rupees 2,383 or much more than 100 per cent. The Chintaguntah station building, notwithstanding a supplemental sanction of Rs 867, shows an excess of Rupees 754. The other items under buildings have been noticed in former reports.

16. The following Estimates were received from the Agent and submitted to Government during the quarter:-

1. Revised Estimate for re-metting the banks of the Main Canal in the 4th Section } 92,545
 2. Plans & Estimates of the 9th Section S. M. Canal. 80,450
 3. Plans & Estimates of the 9th Section S. M. Canal. 1,285
 4. Supplemental Estimate of the Office and Store in the Hoondard Division. } 867
 5. Plan Estimate for the Office and workshop at the Yellow } 10,708
 6. Supplemental Estimate for earthwork in the 5th section } 11,665
- Of these the first four Estimates received the sanction of Government during the quarter, together with 5 others which were previously submitted viz:-
- Estimate for the Repairs of the Kurnool Hospital - 68
 - Estimate for the repairs of the ancient office, out-houses and compound wall at Gorapoto } 327
 - Estimate for the Aqueduct & Sub-embankment for the Yellow valley } 60,590
 - Estimate for the Zerogopully valley } 88,475
 - Supplemental Estimate for the earthwork in the 4th Section } 65,900

17. The expenditure on works including special Super-
intendence and sundries was, as shown in para
13 above, Rupees 4,37,985-8-9, the included Superintendence
and sundries being Rupees 52,195-14-6, of which Rupees
22,336-10-9 or 5.37 per cent appears from the quarterly
statements to have been for temporary establishment.
The cost of the permanent establishment, debited to
Construction was, for the same period, Rupees 68,344-6
or 16.44 per cent, but, deducting the pay of those esta-
blishment engaged exclusively on survey operations, *
this part of the Superintendence cost 10.6 per cent, ^{Remainder Rs. 24-4-8}
so that the percentage of special and permanent esta- ^{Remainder Rs. 8453-11-1}
blishment engaged on works was 15.97. The ^{or Bellary Rs. 30,421-4-9}
percentage of the controlling establishment for this ^{Quintessential 5392-13-0}
Quarter was 6.599. Subjoined are the particulars ^{Rupees 24,268-3-10}
of the cost of permanent and special temporary
establishments in the several Divisions:—

For the Quarter ending 31st October 1864.—

	Superintendence—		Total	Expenditure on Construction exclusive of temporary Superintendence
	Permanent as per abstract	Temporary taken from the quarterly statement		
<u>Construction</u>				
Hindry Division including Sookhasala Sub Division	10632	10277 8	20909 8	223131 6
Rajston and Bawanaary Div.	16843	9104	25947 2	91528 89-15-8
Koondaur Division	7494 11	1683	9177 11	30420 102
Nellore Division including Somaiswararam	9406 17	1272	10678 17	9206 14 2
<u>Total Rupees</u>	<u>44,075</u>	<u>22,336</u>	<u>66,412</u>	<u>5,415</u>

These charges are very moderate for the Hindry
and fairly so for the Rajston and Bawanaary
Divisions. In the Koondaur Division also there
is an improvement, and as regards the temporary
Establishment the percentage is much more
satisfactory. The Nellore Division also has
reduced the proportion between the cost of
temporary establishment; and the outlay on
works, though a considerable further decrease
is desirable.

I have the honor to be
Yours most obedt^{ly} servt
Wm. Lindsay Captain
Comd^g for St. C. 62

Comp^d

Copy in a letter to Eng?
of 23rd May 1865 & p. 33.

20th May 1865 Department

p. 4

From
20th May 1865

The Com. Eng. & P. E.
The Secretary to Govt
of India

12th May 1865
Received 12th May 1865

20th May 1865 - 20th May 1865

Submitting the Progress

Report of M. D. E. L. for
the quarters ending 31st
October 1864.

With an order.

Civil Works

1379

20th 1379

communicated to the Home
Government.

Spent 21 George?
20th May 1865

The Consulting Engineer
Manager &c.

X^o 83

20th May 1865