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G.O. No.	<i>243</i>	Press
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<i>168-467.</i>		
Dated	<i>8/2/37</i>	18/5.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
8th May 1865.*

No. 168. 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, 26th April 1865, No. 247 :—

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 July 1864.

2. The expenditure on the Soonkasala anicut and head works was Rupees 15,665-3-5, consisting of Rupees 14,635-4-10 for 3,430 cubic yards of masonry, and Rupees 1,029-14-7 for special superintendence and sundries.

3. The expenditure on the Hindry aqueduct was Rupees 4,766-3-8, the items being :—

	RS.	A.	P.
Rubble stone in chunam, cubic yards 98	1,042	7	9
Cut stone do. 15	213	8	0
Centrings	1,024	11	1
Special superintendence and sundries	2,485	8	10

4. Rupees 66,711-8-10, were expended on the 1st Section of the main Canal, from the 1st to 17 $\frac{1}{4}$ miles the work done being

	RS.	A.	P.
Excavation and embankments, cubic yards 2,38,087	47,347	1	8
Revetting interior banks with rough stone do. 38,133	11,134	13	0
Culverts	2,560	2	0
Calingulahs	198	8	0
Bridge	59	8	6
Special superintendence and sundries	5,411	7	8

5. The 2nd and 3rd Sections of the main Canal from the 18th to the 43rd mile show an outlay of Rupees 1,95,688-15-5, and the items are

	RS.	A.	P.
Excavation, cubic yards 51,854	16,300	15	2
Embankment do. 3,74,412	76,452	1	7
Calingulahs do. 707	1,246	12	2
Culverts do. 1,553	1,612	11	0
Aqueduct	4,240	1	2
Masonry wall, cubic yards 10,702	44,843	6	8
Bridges do. 94	845	8	5
Tunnels do. 230	830	0	9
Revetments do. 4,892	30,274	1	6
Syphon sluice do. 84	906	9	10
Alteration of road do. 5,851	3,364	13	9
Special superintendence and sundries	14,771	13	5

6. On the 4th and 5th Sections of the Canal, from the 44th to 72nd mile, there was an expenditure of Rupees 61,566-12-3, the details being

	RS.	A.	P.
Excavation and embankment, cubic yards 2,25,773	38,373	12	4
Revetments and pitching do. 8,048	2,575	15	4
Bridges	1,134	6	7
Calingulahs cubic yards 167	1,359	11	8
Culverts do. 2,331	1,071	9	3
Return bunds	334	11	2
Tramway	62	12	0
Aqueduct	618	10	4
Scouring sluice	302	12	4
Special superintendence and sundries	6,602	7	3

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7. On the 6th Section, or miles 73rd to 91st of the Canal, Rupees 33,866-11-6 were spent on

	RS.	A.	P.
Excavation and embankment, cubic yards 2,00,627	8,441	12	9
Culverts	1,961	7	2
Locks	16,734	15	7
Bridge	1,614	0	4
Sluice	821	15	11
Channel for discharging surplus water below the Metacon- dal Cut, cubic yards 2,057	150	0	0
Special superintendence and sundries	4,142	7	9

8. The outlay on the 7th Section, mile 92nd to 114th, amounts to Rupees 19,000-9-10, being for

	RS.	A.	P.
Excavation and embankment, cubic yards 80,408	6,710	2	2
Anicut and head works	2,770	10	9
Regulating lock	402	3	11
Culverts	2,262	1	1
Sluice	136	6	4
Calingulabs	1,135	7	1
Bridges	2,250	7	7
Special superintendence and sundries	3,423	2	11

9. The outlay on the 8th Section, mile 115th, to 146th was Rupees 21,119-10-5 the items being

	RS.	A.	P.
Excavation and embankment, cubic yards 1,45,215	12,639	6	6
Locks do. 534	3,929	1	3
Calingulabs	1,102	8	7
Special superintendence and sundries	3,448	10	1

10. The anicut and head works at Somaishweram show an expenditure of Rupees 8,728-0-2 consisting of Rupees 5,295-13-1 on the body of the anicut, Rupees 338-10-0 for the Railway and waggons, and Rupees 3,093-9-1 for special superintendence and sundries.

11. There was no expenditure on works of distribution.

12. The expenditure on buildings was Rupees 5,224-0-5, consisting of the following items

	RS.	A.	P.
Office and Stores at Jupad	1,024	5	4
Do. do. at Puggidial	294	13	1
Do. do. at Chintagoontah	1,467	7	0
Do. do. at Valapanore	1,619	10	8
Quarters for Sub-Assistant Engineers, &c.	8	0	0
Hospital at Somaishweram	8	12	4

12. The following Abstract shows the expenditure on all works, from the com-
mencement to the close of the Quarter, compared with the sanctioned estimates:-

*Proceedings of the Madras Government, Public Works Department,
8th May 1865.*

Works.	Amount of the estimate.	Expendi- ture up to 30th April 1864.	Cost in the Quarter ending July 1864.	Total ex- penditure.	Deduct refunds.	Total net expenditure.	AMOUNT.	
							Available.	In excess of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Main supply.</i>								
Anicut and head works at Kurnool...	3,03,080	66,500	15,665	66,500	.....	66,509	2,36,571	1,94,828
Do. do. at Soonkasala	1,25,000	3,01,161	8,728	3,19,888	.....	3,19,838	.....	.....
Do. with under-sluice at Somaishweram	1,62,470	17,012	4,766	25,740	1,470	24,270	1,38,200	.....
Aqueduct across the river Hincry at Kurnool	2,18,753	2,07,481	.....	2,12,247	.....	2,12,247	6,506	.....
Canal for one mile from the head sluice of the Kurnool anicut	65,000	49,211	.....	49,211	.....	49,211	15,789	.....
South main canal 1st Section 17 1/4 miles	8,56,777	6,68,412	66,712	7,35,124	.....	7,35,124	1,21,653	.....
Do. 2nd and 3rd do. from 18th to 43rd mile.	7,40,470	8,57,455	1,95,689	10,53,142	.....	10,53,142	.....	3,12,672
Do. 4th and 5th do. 44th to 72nd do.	5,43,835	5,04,721	61,566	5,66,290	.....	5,66,290	.....	22,455
Do. 6th do. 73rd to 91st do.	3,84,434	1,17,972	33,867	1,51,139	.....	1,51,139	2,83,295	.....
Do. 7th do. 92nd to 114th do.	2,35,850	55,869	19,091	74,490	.....	74,490	1,61,360	.....
Do. 8th do. 115th to 146th do.	4,37,410	28,230	21,120	49,350	.....	49,350	3,88,060	.....
Total main supply ...	40,72,079	28,75,866	4,27,204	33,03,070	1,470	33,01,600	13,01,431	5,29,955
<i>Distribution.</i>								
Branch channels and sluices between the first 17 1/4 miles of the 1st Section, south main Canal	5,520	3,530	.....	3,530	.....	3,530	1,990	.....
<i>Buildings.</i>								
Central Hospital with out-houses and compound wall at Kurnool	2,540	4,196	.....	4,196	.....	4,196	.....	1,656
Office, Workshop, and Store house at Soonkasala	4,600	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.	168	3,868	.....	3,868	.....	3,868	.....	3,868
Roads and bridges at Bowanassy	.....	.....	.....	.....	.....	.....	578	.....
Improving the above roads, and repairing the culverts on it.	578	1,245	.....	1,245	.....	1,245	.....	.....
Central Office, Overseer's hut	.....	.....	.....	.....	.....	.....	.....	1,245
Office temporary Store sheds, &c., at Ayalore	642	.....	.....	.....	.....	.....	575	.....

*Rupees 66,711-8-10 were expended on the 1st sec-
tion of the Main Canal, from the 1st to 17 1/4 miles
the*

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8th May 1865.*

Works.	Amount of the estimate.	Expenditure up to 30th April 1864.	Cost in the Quarter ending July 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 Jupad in Nagatore	2,240	1,445	1,024	2,469	.....	2,469	.....	229
Office and Stores at Puggidial	3,030	2,429	295	2,724	.....	2,724	306	.....
Do. do. at Chintagoontah in Kundar	2,685	1,957	1,467	3,424	.....	3,424	.....	739
Converting the unfinished building intended for a Gun Powder Manufactory into a Hospital at Bowanassy	427	12	.....	12	.....	12	415	.....
Office and Store building at Valapanore in do.	1,970	2,036	1,620	3,656	.....	3,656	.....	1,686
Quarters for Sub-Assistant Engineers' and Assistant Surveyors in the Kundar Division	468	612	13	625	.....	625	.....	157
Hospital and Apothecary's residence at Somaishweram	2,500	262	805	1,067	.....	1,067	1,833	.....
Office building at Somaishweram	.....	.....	Transferred from previous expenditure of main supply.	1,470	.....	1,470	.....	1,470
Total Buildings	28,946	33,386	5,924	40,080	.....	40,080	3,707	14,841
Grand Total	41,07,545	29,12,732	4,32,428 } 1,170 }	33,46,680	1,470	33,45,210	13,07,131	5,44,796

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13. This Statement shows that the expenditure of the Quarter by cash was Rupees 4,32,428, and Rupees 1,470 by adjustment, and the total net outlay Rupees 33,45,210. The value of stores issued during the Quarter has not been as yet adjusted.

14. The subjoined Statement shows the expenditure in excess of sanction to be Rupees 2,15,511 more than that noticed in my last report. All the excess expenditure, Rupees 5,29,955 under main supply, has been since covered by supplemental sanctions, and the last four items under buildings, amounting to Rupees 2,595, have similarly received adjustment. The outlay in excess on the Valapanore station building has risen from 66 Rupees in the previous to Rupees 1,686 in the present Quarter, the amount of the estimate being Rupees 1,970. No supplemental estimate for this work has as yet been received. The first four items under buildings have already been noticed in previous reports, and the Agent has been requested to make formal application for the sanction of the expenditures shown, with a view to their adjustment in the accounts and removal from the list of unauthorized expenditure:—

Works.	Excess expenditure up to 30th April 1864.	Excess expenditure during the Quarter ending July 1864.	Total.	Deduct refunds.	Net expenditure up to July 1864.
	RS.	RS.	RS.	RS.	RS.
<i>Main supply.</i>					
Anicut and head works at Soonkasala	1,79,163	15,665	1,94,828	.....	1,94,828
South main canal, 2nd and 3rd portions of the 1st Section	1,34,953	1,77,719	3,12,672	.....	3,12,672
Do. 4th and 5th do. do.	.....	22,455	22,455	.....	22,455
<i>Buildings.</i>					
Central Hospital at Kurnool	1,656	.....	1,656	.....	1,656
Office and Stores 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 Valapanore in Bowanassy Rs. 2,036; deduct the amount of the estimate sanctioned during the Quarter Rs. 1,970.	66	1,620	1,686	.....	1,686
Quarters for Sub-Assistant Engineers and Assistant Surveyors in Kundar Division	144	13	157	.....	157
Office and Stores at Jupad in Nagatore Division	.....	229	229	.....	229
Do. do. at Chintagoontah	.....	739	739	.....	739
Office building at Somaishweram	.....	1,470	1,470	.....	1,470
Total	3,24,886	2,19,910	5,44,796	.....	5,44,796

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

1. Plan and supplemental estimate of the Hospital at Somaishweram	RS. 900
2. Plan and estimate of the Office and Stores at Puggidial	3,030
3. Estimate for repairing the Central Hospital at Kurnool and the Anicut office, out-houses and compound wall at Zorapore	395
4. Supplemental estimate of the earth work in the fourth Section, main Canal	65,900
5. Plan and estimate for the 1st Section of the Nellore works	1,14,265
6. Do. of the additional ward to the Kurnool Hospital	1,690

Consulting Engineer's Office,
Irrigation and Canal Company,
Madras, 25th April 1865.

N. 247

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8th May 1865.

Of these the first two estimates received the sanction of Government during the Quarter, together with two others which were previously submitted, viz:—

Supplemental estimate of the Kadrabagh aqueduct 17,970
Estimate of the Office and Stores at Valapanore 1,970
16. The expenditure on works including special superintendence and sundries, was, as shown in paragraph 13 above, Rupees 4,32,427-11-11, the included superintendence and sundries being Rupees 44,409-1-7; of which Rupees 22,081-3-8, or 5.38 per cent., appear from the quarterly statements to have been for temporary establishment. The cost of permanent establishment debited to construction was for the same period Rupees 64,865-10-10, or 15.80 per cent.; but deducting the pay of those establishments* engaged exclusively on survey operations, this part of the superintendence cost 10.698 per cent., so that the per centage of special and permanent establishments engaged on works was 16.079. The percentage of the Controlling establishment for this Quarter was 5.935. Subjoined are the particulars of the cost of permanent and special temporary establishments in the several Divisions for the Quarter ending 31st July 1864:—

Construction.	SUPERINTENDENCE.												Expenditure on construction exclusive of temporary superintendence.
	Permanent as per Monthly Pay Abstract.			Temporary taken from the Quarterly Statement.			Total.						
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	
Hindry Division, including Soonkasala Sub-Division ...	11,220	9	3	10,325	0	0	21,615	9	3	2,72,506	15	4	
Nagatore and Bowanassy Divisions ...	15,906	7	4	9,272	0	9	25,178	8	1	1,68,190	13	11	
Kundar Division ...	7,508	6	0	1,197	2	8	8,705	8	8	21,402	14	9	
Nellore Division, including So-maishwaram Aicut ...	9,193	11	6	1,257	0	3	10,450	11	9	8,215	12	3	
Total..	43,899	2	1	22,081	3	8	65,983	5	9	4,10,346	8	3	

From this it will be seen that the cost of a ... 7-9 per cent., a very small ...

From this it will be seen that the cost of establishments in the Hindry Division, was 7.9 per cent., a very moderate charge; in the Nagatore and Bowanassy Divisions 23 per cent., and in the Kundar Division just under 40 per cent. In the Nellore Division the charge for superintendence continued high, Rupees 10,450-11-9 are the total expenditure on this account, and if 2,300 Rupees only out of the Rs. 9,193-11-6 for permanent establishment be debited to works, this, with the temporary establishment amounts to Rupees 3,587, or upwards of 43 per cent. on Rupees 8,245-12-3, the outlay on works.

17. The Progress Reports for the Quarter ending 31st October have been received from the Agent, and are under examination.

No. 169.
ORDER THEREON, 8th May 1865, No. 1,248.
CIVIL WORKS, No. 24A.
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.
do.
do.
Exd. R. H. Lee.

For,
Captain, J. Mullins, R.E.
Consulting Engineer
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 July 1864.—
2. The expenditure on the Soonkasala Aicut and headworks was Rupees 15,665-3-5, consisting of Rupees 14,635-4-10 for 3,430 cubic yards of masonry, and Rupees 1,029-14-7 for special superintendence and sundries.—
3. The expenditure on the Hindry Aqueduct was Rupees 47,66-3-8— the items being,
Rubble stone in chunam cubic yards 98 1042-7-9
Cut stone do 15 213-8-"
Centrings 1024-11-1
Special superintendence and sundries— 2485-8-10
4. Rupees 66711-8-10 were expended on the 1st section of the Main Canal, from the 1st to 17 1/4 miles the

the work done being,

Excavation and embankment Cubic yds 232,087 ^{Rs 47,347-1-3}
 Revetting interior banks with rough stone } 38,133 11,134-13-

Culverts 2560-2-
 Calingulaks 198-8-
 Bridge 59-8-6
 Special superintendence and emdries 5411-7-2

5. The 2nd and 3rd sections of the Main Canal from the 18th to the 43rd mile when an outlay of Rupees 195,688-15-5, and the items are,

Excavation Cubic yards 57,854 16,350-15-2
 Embankment 374,412 76,452-1-7
 Calingulaks 707 1246-12-2
 Culverts 1553 1612-11-
 Aqueduct 4,240-1-2
 Masonry wall 10702 41,843-6-8
 Bridge 94 845-8-5
 Landfills 230 230-9-7
 Revetments 4,892 30,274-1-6
 Siphon sluice 84 906-9-10
 Alteration of roads 5357 3364-13-9
 Special superintendence and emdries 11,771-13-5

6. On the 4th and 5th sections of the canal, from the 44th to 72nd mile, there was an expenditure of Rupees 61,566-12-3, the details being,

Excavation and embankment Cubic yds 225,773 ^{Rs 32,373-12-4}
 Revetments and pitching 8,068 2,575-15-4
 Bridges 167 1,559-8-8
 Calingulaks 231 1071-9-5
 Culverts 354 11-2
 Return Roads 62 12-
 Grammar 668 18-4
 Shoring sluice 302 12-4
 Special superintendence and emdries 1102 3-3

7. On the 6th section or miles 73rd to 91st of the canal, Rupees 33,866-11-6 were expended,
 Excavation and embankment Cubic yds 200,627 ^{Rs 84,411-12-9}
 Culverts 1961-7-2
 Locks 16734-15-7
 Bridge 1614-4-4
 Sluice 821-15-11
 Channel for discharging surplus water below the Metacandal cut Cubic yds 2257 150-
 Special superintendence and emdries 4142-7-7

8. The outlay on the 7th section miles 92nd to 111th amounts to Rupees 190,90-9-10 being for
 Excavation and embankment Cubic yds 80,408 ^{Rs 6710-2-2}
 Ancient and head works 2770-10-9
 Regulating Lock 402-3-11
 Culverts 2262-1-1
 Sluice 136-6-4
 Calingulaks 1135-7-1
 Bridges 2250-7-7
 Special superintendence and emdries 3423-2-11

9. The outlay on the 8th section - miles 115th to 146th was Rupees 21,119-10-5 - the items being,
 Excavation and embankment Cubic yds 11,5215 ^{Rs 12,639-6-6}
 Locks 534 3929-1-3
 Calingulaks 1102-8-7
 Special superintendence and emdries 3448-10-1

10. The Ancient and head works at Somnaiswaram when an expenditure of Rupees 8728-2-2 consisting of Rupees 5295-13-1 on the body of the Anicut, Rupees 338-10- for the railway and wagons, and Rupees 3093-9-1 for special superintendence and emdries.

11. There was no expenditure on works of distribution.
 12. The expenditure on Buildings was Rupees 5224-11-5, consisting of the following items.

Office and Store at Duprad 1024-5-4
 do do at Chuggadial 294-13-1
 do do at Chintayontah 1467-7-
 do do at Talapavore 1619-10-8
 Quarters for Subordinate Engineers 13-
 Hospital at Somnaiswaram 804-12-6

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

600
Amount.

Works.

Amount of the estimate. Expenditure up to 30th April 1864. Costing the greater expenditure ending July 1864. Total expenditure. Deduct Refunds. Total net expenditure. Available. In excess of estimate.

Main Supply.

Ainunt and head works at Hurnool.	303,080	66,509		66,509		66,509	236,571	
do do at Sontiguala	125,000	304,163	15,665	319,828		319,828		194,828
do with under sluice at Somaiwaram	162,470	17,012	8728	257,40	1470	242,70	138,200	
Aqueduct across the river Hindry at Hurnool	218,753	207,481	2766	212,247		212,247	6506	
Canal for one mile from the head sluice of the Hurnool Ainunt	65000	49,211		49,211		49,211	15,789	
South Main Canal 1 st section 17 1/4 miles	856,777	668,412	66,712	735,124		735,124	121,653	312,672
do 2 nd 4 3/4 do from 18 th to 43 rd mile	740,470	857,453	195,689	1053,142		1053,142		224,55
do 1 st 4 5 th do 44 th to 72 nd	543,835	504,724	61,566	566,290		566,290		
do 6 th do 73 rd to 91 st	384,434	117,272	33,867	151,139		151,139	233,295	
do 7 th do 92 nd to 114 th	255,850	55,399	19,091	74,490		74,490	161,360	
do 8 th do 115 th to 146 th	437,410	26,230	21,120	49,350		49,350	388,060	
Total Main Supply.	4,073,079	2,875,866	4,27,204	3,303,070	1470	3,301,600	130,1434	5,299,55

Distribution.

Branch channels and sluices between the 1 st 17 1/4 miles of the 1 st Section South Main Canal.	5520	3,530		3,530		3,530	1990	
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Buildings.

Central hospital with out houses and compound wall at Hurnool	2540	4196		4196		4196		1656
Office, Workshop and Store house at Sontiguala	1,000	7791		7791		7791		3791
Office, Store house and Artificers shed at Bowanaxey	7298							
Repairs to do do do	168	7466		7466		7466		3868
Roads and Bridges at Bowanaxey		3868		3868		3868		
Improving the above roads and repairing the culverts on it	578						578	1245
Central Office overceers hut								
Office temporary store shed at Leyalor.	1245			1245		1245		
Permanent office and store at Supad in Nagavore.	67			67		67	575	229
Office and Store at Puzgudra	2240	1445	1024	2469		2469	306	
do do at Chintapantab in Hindar	3030	2429	295	2724		2724		739
Converting the unfinished building intended for a Gun Powder Manufactory into a hospital at Bowanaxey	3685	1957	1467	3424		3424		
Office and Store building at Valapanoor in do	427	12		12		12	415	1686
Quarters for Sub Assistant Engineers and Assistants Surveyors in the Hindar	1970	2036	1620	3656		3656		157
Hospital and Apothecarys residence at Somaiwaram	468	612	13	625		625	1833	
Office building at Somaiwaram	2900	262	805	1067		1067		1470
			1170	1470		1470		
Total Buildings	28,946	33,386	5224	40,080		40,080	3707	14,841

Grand Total	4,107,545	29,12,782	4,32,428	3,346,680	1470	3,345,210	130,7131	5,47,796
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13. This

13. This Statement shows that the expenditure of the quarter by each was Rupees 4,32,428 and Rupees 1470 by adjustment and the total net outlay Rupees 33,45,210. - The value of stores issued during the quarter has not been as yet adjusted.

14. The enclosed statement shows the expenditure in excess of sanction to be Rupees 2,15,511 more than that noticed in my last report. All the excess expenditure, Rupees 52,995, under Main Supply, has been since covered by supplemental sanctions, and the last 4 items under Buildings, amounting to Rupees 2,595, have similarly received adjustment. The outlay in excess on the Calapamoor Station Building has risen from 66 Rupees in the previous, to Rupees 1,686 in the present quarter, the amount of the estimate being Rupees 1,970. - No supplemental estimate for this work has as yet been received. The first four items under buildings have already been noticed in previous reports, and the Agent has been requested to make formal application for the sanction of the expenditures shown, with a view to their adjustment in the accounts and removal from the list of unauthorized expenditure.

Expenditure.

Expenditure -

W. R.

Excess Excess
Expenditure Expenditure
up to 30th April 1864. up to 30th July 1864. Total. Refund up to 30th July 1864. Net Ex-
penditure

Main Supply.

Amentam head works at Honkaxala	179,163	15,665	194,828	194,828
South Main Canal - 2 nd & 3 rd portions of the tract	134,953	17,771	312,672	312,672
do do do do do do		22,455	22,455	22,455

Buildings.

Central hospital at Hurmoor	1,656	"	1,656	1,656
Office and Store at Honkaxala	3,791	"	3,791	3,791
Roads, Bridges &c at Bouranag.	3,868	"	3,868	3,868
Central Office Coimbatore	1,245	"	1,245	1,245
Office and Store at Talapamoor in Bonasey 2036	66	1,620	1,686	1,686
Deduct the amount of the estimate being 1,970				
Quarters for Sublieutenant & 4 Mess. & 4 Mess. in Kandar Division	144	13	157	157
Office and Store at Tupia in Nagator		229	229	229
do do do do do do		739	739	739
Office building at Comaivaram		1,470	1,470	1,470
	324,886	219,910	544,796	544,796

15. The following estimates were received from the Agent and submitted to Government during the quarter.
1. Plan and supplemental estimate of the hospital at Comaivaram. Rupees 900.-
 2. Plan and estimate of the Office and Store at Puzhathal. 3030.-
 3. Estimate for repairing the Central hospital at Hurmoor and the Central Office, out houses and compound wall at Yorapoor. 395.-
 4. Supplemental estimate of the earthwork in the 4th Section Main Canal. 65,900.- S. Plan

13. Plan and estimate for the 1st section of the Kallor works. Recd. P
114,265-11-11

the bond of the additional ward to the General Hospital 1690-11-11

14. Of these the first two estimates received the sanction of Government during the quarter, together with two others which were previously submitted - viz:

14. Supplemental estimate of the Kadraugh Aqueduct 1797-11-11
15. Estimate of the Office and Store at Calapanore 1970-11-11

16. The expenditure on works including special superintendence and sundries was, as shown in para. 13 above, Rupees 4,32,427-11-11, the included superintendence and sundries being Rupees 44,409-1-7;

of which Rupees 22,081-3-8 or 5.32 per cent appear from the quarterly statements to have been for temporary establishment. The cost of permanent establishment debited to Construction was for the same period Rupees 64,065-10-10 or 15.00 per cent, but deducting the pay of those establishments engaged exclusively on survey operations, this part of the superintendence cost 10,690 per cent, so that the percentage of special and permanent establishments engaged on works was 16.079. The percentage of the Controlling establishment for this quarter was 5.995. Subjoined are the particulars of the cost of permanent and special temporary establishments in the several divisions.

Remains to be paid - 7064-7-5
Bally - 2703-2-5
Sundries - 5212-16-4
Total - 20980-1-9

In the Quarter ending 31st July 1864. 872

Superintendence -		Expenditure on Construction
Permanent	Temporary	Exclusive of temporary superintendence
as monthly taken	as monthly taken	
deducted from the 2 nd estimate	deducted from the 2 nd estimate	
Total.		

Construction.

Hindry Division including	11290 9 3	10325 - -	21615 9 3	273506 15 4
Soulavala Sub Division				
Nagatore and Bonanarey Division	15416 7 4	9272 - 9	25178 8 1	102190 13 11
Hindar Division	7503 6 -	1497 2 8	2705 8 8	21402 14 9
Kallor Division including	9193 11 6	1207 - 3	10400 11 9	2245 12 3
Sornaiswaram Ament				

Rupees - 63,279 2 1 22,081 3 8 65,920 5 9 1,03,663 3

From this it will be seen that the cost of establishment in the Hindry Division was 7.9 per cent a very moderate charge; in the Nagatore and Bonanarey Divisions 23 per cent, and in the Hindar Division just under 40 per cent. In the Kallor Division the charge for superintendence continues high - Rupees 10,400-11-9 are the total expenditure on this account, and if 2,300 Rupees only out of the 9,193-11-6 for permanent establishment be debited to works, this, with the temporary establishment amounts to Rupees 3,507 or upwards of 43 per cent on Rupees 2245-12-3 the outlay on works. -
17 The Progress Report for the quarter ending 31st October

31st October have been received from the Agent, and
are under examination.

I have the honor to be,
Sir,
Your most obedient servant,
Wm. L. Smith, Captain, R.E.
Lane Infanterie Co. Company -

Wm. L. Smith

to the Consulting Engineer, West
" Messrs. - at 2 -
Don't 11th May -
West 81 George
8th May 1865

The House Government

Ordered to be communicated

1248

Submit report on the
proposals made in the
works of the Madras
drilled during the
quarter ending 31st July 1864

1248

1248

1248