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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
17th September 1867.*

No. 410. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Department Public Works, dated Madras, 9th September 1867, No. 68 :—

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 30th June 1867.

2. The 4th Section of the Canal, miles 44 to 60, during this quarter made good progress. In the other sections the quantity of work done was small.

3. The expenditure on the Soonkasala anicut and head works was Rupees 7,405-2-9, consisting of Rupees 51-6-5 for earthwork, Rupees 6,991-9-8 for masonry, Rupees 11-4-0 for baling, Rupees 297-15-4 for special Superintendence and Sundries, and Rupees 49-15-4 for proportion of Store charges.

4. Rupees 456-14-8 were expended on the 1st Section, 1 to 17 $\frac{1}{4}$ miles, of the Main Canal, the work done being—

	RS.	A.	P.
Bridge, 2nd Class, for Dudiya	13	8	9
Special superintendence and sundries	257	5	2
Stores	120	3	6
Proportion of Store charges	30	8	8
Repairs to apron in front of head sluice	29	1	7
Do. to head sluice revetment	6	3	0

5. The 2nd Section, from the 18th to the 32nd miles, shows an outlay of Rupees 1,317-8-10, the items being—

	RS.	A.	P.
Aqueduct at Kadrabagh	441	13	11
Closing breaches, 25th and 27th miles	325	0	0
Special superintendence and sundries	487	2	2
Stores	51	3	1
Proportion of Store charges	12	5	8

6. On the 3rd Section of the Main Canal, from the 33rd to 43rd miles, there was an expenditure of Rupees 571-14-0, the details being—

	RS.	A.	P.
Earthwork and embankment	172	12	0
Rocky excavation and cutting	4	0	0
Revetment	67	0	0
Sultanpore tunnel	21	0	0
Aqueduct at Ullur	26	0	0
Scouring sluice in calingulah No. 16	45	0	0
Special superintendence and sundries	236	2	0

7. On the 4th Section, or miles 44 to 60 of the Canal, Rupees 54,978-10-3 were expended on—

	RS.	A.	P.
Excavation and embankment, cubic yards 2,27,371	42,552	10	7
Revetment and pitching, do. 6,559	7,410	14	8
Bridge No. 1	221	4	0
Calingulah Nos. 2 and 4	307	10	9
Culvert No. 4	506	1	1
Catchwater drain	115	10	0
Contingencies	1,249	13	7
Stores	2,079	5	9
Proportion of Store charges	535	3	10

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8. On the 5th Section of the Main Canal, from 61st to 72nd miles, there was an expenditure of Rupees 10,567-11-3, the items being—

	RS.	A.	P.
Excavation and embankment, cubic yards 18,150 ...	10,294	3	7
Revetment and pitching ...	5	3	0
Catch-water drain, cubic yards 114 ...	14	4	0
Culvert No. 5 ...	18	8	0
Contingencies ...	232	11	2
Stores ...	2	4	2
Proportion of Store charges ...	0	9	4

9. On the 6th Section, or miles 73rd to 91st of the canal, Rupees 12 were expended on special superintendence and sundries.

10. The outlay on the 7th Section, miles 92nd to 114th, amounted to Rupees 604 being for

	RS.	A.	P.
Anicut at Jootoor ...	45	8	9
Culverts ...	79	13	9
Calingulabs ...	2	11	0
Bridges ...	28	0	0
Special superintendence and sundries ...	447	14	6

11. The outlay on the 9th Section, miles 144th to 178th, amounted to Rupees 914-12-2 being for

	RS.	A.	P.
Earthwork, cubic yards 2,400 ...	215	10	8
Aqueducts at 144th and 145th miles ...	465	15	0
Special superintendence and sundries ...	198	9	0
Stores ...	27	8	0
Proportion of Store charges ...	7	1	6

12. The expenditure on works of Distribution was Rupees 485-14-11, of which Rupees 84-0-3 were expended on the 1st Section, Rupees 13-12-0, on the 2nd Section, and Rupees 388-2-8 on the branch channels and sluices in the 4th Section or Nagatoor Division.

13. The expenditure on Buildings was Rupees 201-9-3, consisting of the following items:—

	RS.	A.	P.
Office and Store buildings at Jupad ...	167	8	11
Do. do. and Workshop at Kurnool ...	34	0	4

14. 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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Works.	Amount of Estimate.	Expenditure up to 31st March 1867.	Cost during the quarter ended 30th June 1867.	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 ...	3,03,080	60,327	457	60,327	...	...	60,327	2,42,753	...
Do. do. at Soonkasala ...	4,27,052	4,01,846	7,405	4,09,251	...	...	4,09,251	17,801	...
Do. do. at Somaishwaram ...	1,62,470	60,326	...	60,326	...	...	60,326	1,02,144	...
Aqueduct across the river Hindry ...	2,46,029	2,67,805	...	2,67,805	...	...	2,67,805	...	21,776
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, 17½ miles ...	8,81,927	8,83,570	457	8,84,027	...	...	8,84,027	...	2,100
Do. 2nd do. 18½ to 32nd miles ...	13,89,674	15,23,831	1,318	15,25,149	372	44	15,25,477	...	1,35,803
Do. 3rd do. 33rd to 43rd do. ...	5,89,290	6,79,236	572	6,79,808	...	...	6,79,808	...	90,518
Do. 4th do. 44th to 60th do. ...	10,55,521	6,90,954	54,978	7,45,932	...	...	7,45,932	3,09,589	...
Do. 5th do. 61st to 72nd do. ...	5,89,512	5,59,514	10,568	5,70,082	...	375	5,69,707	19,805	...
Do. 6th do. 73rd to 91st do. ...	4,41,944	3,17,979	12	3,17,991	...	...	3,17,991	1,23,953	...
Do. 7th do. 92nd to 114th do. ...	2,35,850	2,12,516	604	2,13,120	...	...	2,13,120	22,730	...
Do. 8th do. 115th to 143rd do. ...	7,36,830	2,65,747	...	2,65,747	...	...	2,65,747	4,71,083	...
Do. 9th do. 144th to 178th do. ...	8,02,811	...	915	...	...	...	915	8,01,896	...
	79,26,990	59,72,936	76,829	60,49,765	372	419	60,49,718	21,27,460	2,50,197
<i>Distribution.</i>									
Branch channel and sluices of 1st Section ...	6,681	3,879	84	3,963	...	...	3,963	2,718	...
Distribution works of the 2nd Section ...	6,000	4,746	14	4,760	...	372	4,388	1,612	...
Do. 3rd do. ...	9,320	4,261	...	4,261	...	...	4,261	5,059	...
Do. 4th do. ...	8,286	3,199	388	3,587	...	14	3,573	4,713	...
Do. 6th do. ...	10,000	2,842	...	2,842	...	...	2,842	7,158	...
Do. do. at Soonkasala ...	...	925	...	925	...	...	925	...	925
Kurnool Town water-supply ...	1,609	1,382	...	1,382	...	...	1,382	317	...
	41,986	21,234	486	21,720	...	386	21,334	21,577	925
<i>Buildings.</i>									
Central Hospital with out-houses and compound wall at Kurnool ...	4,367	4,367	...	4,367	...	...	4,367	...	...
Repairs to do. do. ...	68	60	...	60	...	...	60	8	...
Office, Store-house, and Workshop at Soonkasala ...	5,947	5,946	...	5,946	...	...	5,946	1	...

... 400-14-0 more expended on the ...

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Works.	Amount of Estimate.	Expenditure up to 31st March 1867.	Cost during the quarter ended 30th June 1867.	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>Buildings.—(Concluded.)</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
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	...	36
Repairing the above buildings at do. ...	168	...	...	...	...	...	...	168	...
Improvement of the road approaching to the above buildings, and repairing 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	...	1,156
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 Nagore Division.	4,133	3,245	168	3,413	...	...	3,413	710	...
Do. do. at Puggydial do. ...	3,977	3,833	...	3,833	...	...	3,833	144	...
Do. do. at Chintagoota in Kundar do. ...	5,283	5,102	...	5,102	...	...	5,102	181	...
Office and Temporary Store shed at Araloor in do. ...	642	67	...	67	...	...	67	575	...
Quarters for Sub-Assistant Engineers and Assistant Surveyors at do. ...	1,236	561	...	561	...	...	561	675	...
Hospital and Apothecary's residence at Somaiyavaram	2,900	2,600	...	2,600	...	...	2,600	300	...
Office buildings at do. ...	1,470	1,470	...	1,470	...	...	1,470	...	...
Repairs to the Ancient Office at Zorapoor ...	327	308	...	308	...	...	308	19	...
Overseer's Quarters, Store, Workshop, Clerk, and Pay Office at Somaiyavaram ...	4,841	4,841	...	4,841	...	...	4,841	...	...
Office, Store, and Workshop at Kurnool ...	30,612	13,745	31	13,779	...	...	13,779	16,833	...
Iron and Brass Foundry at do. ...	15,328	15,168	...	15,168	...	...	15,168	160	...
Room for receiving and despatching Stores at do. ...	...	...	...	...	...	...	...	...	...
	1,01,121	84,813	202	85,015	...	...	85,015	20,442	4,356
	80,70,697	60,78,983	77,517	61,56,500	372	805	61,56,067	21,09,485	2,55,458

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15. This statement shows that the expenditure of the quarter was Rupees 77,517, and the net total outlay up to 30th June 1867 Rupees 61,56,067.

16. The subjoined statement shows the expenditure in excess of sanction at the end of the quarter to have been Rupees 2,55,458:—

Works.	Excess expenditure up to 31st March 1867.	Excess expenditure during the quarter 30th June 1867.	Total.	Add amount transferred to this from other works.	Deduct refunds.	Excess net expenditure up to 30th June 1867.
<i>MAIN SUPPLY.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Aqueduct across the river Hindry ...	21,076	...	21,776	...	...	21,776
South Main Canal { Last excess ... Rs. 20,793 1st Section { Since sanctioned ,, 25,150	1,613	457	2,100	...	...	2,100
Do. do. 2nd do. { Last excess ... ,, 1,42,707 { Since sanctioned ,, 8,550	1,34,157	1,318	1,35,475	372	44	1,35,803
Do. do. 3rd do. { Last excess ... ,, 94,096 { Since sanctioned ,, 5,050	89,916	572	90,518	...	...	90,518
	2,17,523	2,347	2,19,869	372	44	2,50,197
<i>DISTRIBUTION.</i>						
Distribution at Soonkasala ...	925	...	925	...	...	925
	925	...	925	...	...	925
<i>BUILDINGS.</i>						
Office, Store, and Artificers' shed at Bowanassy ...	36	...	36	...	...	36
Do. do. do. at Valapanoor ...	3,144	...	3,144	...	...	3,144
Workshop building at Bowanassy ...	1,156	...	1,156	...	...	1,156
	4,336	...	4,336	...	...	4,336
	2,52,783	2,347	2,55,130	372	44	2,55,458

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

- Supplemental estimate for Masonry works in the 4th Section ... Rs. 72,623
- Estimate for a third class Bridge in do. ... 4,200
- Do. for an Engineer's Bungalow at Dhoor ... 4,750
- Do. do. at Adamapully ... 1,880
- Do. for a Bund across the Main Canal in the 45th mile ... 76
- Do. for additions and repairs to the Hospital at Kurnool ... 683
- Do. for repairs to the Office and store Buildings, &c., at Puggydial in Nagatoor ... 153

- Do. for a Groyne in connection with Soonkasala anicut ... 3,060

Of these the first five received the sanction of Government during the quarter, the next two have since been sanctioned, and the last was refused sanction for the reasons given in Government Order No. 1,953, dated 2nd July 1867.

18. Two estimates Rupees 13,600 for Bridges for the 2nd and 3rd Sections, which were submitted during the previous quarter, likewise received sanction.

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19. The cost of the Executive permanent Establishment amounts for this quarter to 42.6 per cent. on the expenditure for Construction; that of the Temporary Establishment to 2.5 per cent.; that of Establishments engaged in investigations in Bellary and for reservoirs to 6.2 per cent.; that of General Management to 26.9. The total cost of permanent was therefore 75.7, and of Temporary Establishments 2.5 per cent. on the expenditure.

No. 411.

ORDER THEREON, 17th September 1867, No. 2,877.

IRRIGATION, No. 16.

Ordered that this report be communicated to the Home Government.

(True Extract.)

(Signed) J. H. M. SHAW STEWART, Major, R. E.,

Under Secretary to Government.

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

Exd. S. T. Augustin.

Consulting Engineer's Office
Irrigation & Canal Company
Madras, 9th September 1867.

No. 68.

From,

Captain, J. Pullin R.E.
Engineer for I.C. Co.

The Secretary to Government,
Department of Pub. Works.

Sir,

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 30th June 1867.

2. The 4th Section of the Canal, miles 4.4 to 6.0, during this quarter made good progress. In the other Sections the quantity of work done was small.

3. The expenditure on the Sootiasala Inlet and head works was Rupees 7,405-2-9, consisting of Rupees 51-6-5 for earthwork, Rupees 6,994-9-8 for masonry, Rupees 11-4-0 for baling, Rupees 297-15-4 for special superintendence and sundries, and Rupees 49-15-4 for proportion of Store charges.

4. Rupees 456-14-8 were expended on the 1st Section

Section, 1 to 17 1/4 miles, of the Main Canal, the work done being,

Bridge 2 nd Class for Andiyala No.	13-8-9
Special superintendence & sundries	257-5-2
Stores	120-3-6
Proportion of Store charges	30-8-8
Repairs to apron in front of head sluice	29-1-7
Do to head sluice, revetment	6-3-

3. The 2nd Section, from the 18th to the 32nd miles, shows an outlay of Rupees 1317-8-10, the items being,

Aqueduct at Madra bagh No.	441-13-11
Closing breaches - 35" & 27" miles	325-
Special superintendence & sundries	407-2-2
Stores	51-3-1
Proportion of Store charges	12-5-8

On the 3rd Section of the Main Canal from the 33rd to 43rd miles, there was an expenditure of Rupees 571-14-, the details being,

Earthwork and embankment No.	172-12-
Rocky excavation & cutting	4-
Revetment	67-
Siltanpore Tunnel	21-
Aqueduct at Ellur	26-
Scouring sluice in Calingulah No. 16	45-
Special superintendence & sundries	236-2-

7. On the 4th Section or miles 44 to 60 of the Canal, Rupees 54970-10-3 were expended on,

Excavation & embankment Cys. 227371 No.	42552-10-7
Revetment & pitching a 6009	7410-14-8
Bridge No. 1	221-4-
Calingulah No. 274	307-10-9
Culvert No. 4	506-1-1
Catchwater drain	115-10-
Contingencies	1249-13-7
Stores	2079-5-9
Proportion of Store charges	535-3-10

8. On the 5th Section of the Main Canal, from 61st to 72nd miles, there was an expenditure of Rupees 10567-11-3, the items being,

Excavation & embankment Cys. 18150 No. 10294	3-7
Revetment & pitching	5-3-
Catchwater drain	114-14-4
Culvert No. 5	18-8-
Contingencies	232-11-2
Stores	2-4-2
Proportion of Store charges	-9-

9. On the 6th Section or miles 73rd to 91st of the Canal, Rupees 12- were expended on special superintendence and sundries.

10. The outlay on the 7th Section, miles 92nd to 114th, amounted to Rupees 604- being for,

Amount at Sootoor No.	15-8-9
Culverts	77-13-9
Calingulah	2-11-
Bridges	28-
Special superintendence & sundries	447-14-6

11. The outlay on the 8th Section, miles 114th to 178th, amounted to Rupees 914-12-2 being for,

Earthwork Cub. Yds. 2400 No.	215-10-8
Aqueducts at 144 & 145 miles	465-15-
Special superintendence & sundries	198-9-
Stores	27-3-
Proportion of Store charges	17-1-6

12. The expenditure on works of distribution was Rupees 235-16-11, of which Rupees 84-3-3 were expended on the 1st Section, Rupees 13-12- on the 2nd Section, and Rupees 300-2-8 on the branch channels and sluices in the 4th Section or Nagatoor Division.

13. The expenditure on Buildings was Rupees 201-7-3, consisting of the following items,

Office & Store buildings at Enpud	No. 167-8-0
Do do Workshop at Turnool	34-1-4

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

Works.

Main Supply.

Amount of head works at Kurnool	
Do do at Bontakota	
Do do at Somaiwarum	
Agarwal across the river Hindry	
Canal for one mile from the head of the Kurnool River	
South Main Canal 1st Section 17 1/2 miles	
Do 2 nd Do 10 1/2 to 32 nd miles	
Do 3 rd Do 33 rd to 48 th	
Do 4 th Do 48 th to 60 th	
Do 5 th Do 60 th to 72 nd	
Do 6 th Do 72 nd to 91 st	
Do 7 th Do 91 st to 111 th	
Do 8 th Do 111 th to 143 rd	
Do 9 th Do 143 rd to 178 th	

Distribution.

Branch channel & culverts of 1 st Section	
Distribution works of the 2 nd	"
Do 3 rd	"
Do 4 th	"
Do 5 th	"
Do 6 th	"
Do 7 th	"
Do 8 th	"
Do 9 th	"
Do 10 th	"
Do 11 th	"
Do 12 th	"
Do 13 th	"
Do 14 th	"
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15. This Statement shows that the expenditure of the quarter was Rupees 77,517 and the net total outlay up to 30th June 1867 Rupees 615,667.

16. The subjoined Statement shows the expenditure in excess of sanction at the end of the quarter to have been Rupees 255,458.

Works.	Excess expenditure above the sanctioned amount.	Excess expenditure above the sanctioned amount during the 2 nd 30 days of the quarter.	Total	Advances by transfers to the fund for the works.	Balance for future works.	Excess not sanctioned above the sanctioned amount.
<u>Main Supply.</u>						
Agardue across the river Hindry	2176	"	2176	"	"	2176
South Main Canal 1 st Section { Last excess Rs. 26,793 Since sanctioned 25,150 }	1643	457	2100	"	"	2100
Do Do 2 nd Section { Last excess Rs. 162,707 Since sanctioned 8,850 }	13457	1318	13875	372	14	135803
Do Do 3 rd Section { Last excess Rs. 96,996 Since sanctioned 5050 }	89946	572	90518	"	"	90518
	247,522	2347	249,869	372	14	249,483
<u>Distribution.</u>						
<u>Distribution at Bonthavala.</u>						
	925	"	925	"	"	925
	925	"	925	"	"	925
<u>Buildings.</u>						
Office, Store & Workshop at Bonthavala	36	"	36	"	"	36
Do Do Do at Walapavore	3144	"	3144	"	"	3144
Workshop building at Bonthavala	1156	"	1156	"	"	1156
	4336	"	4336	"	"	4336
	252783	2347	255130	372	14	255,458

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

Supplemental

Supplemental Estimate for Masonry works in the 4 th Section	Rs. 72,623
2. Estimate for a 3 rd Class Bridge in the 4 th Section	4,200
3. Do for an Engineer's Bungalow at Bonthavala	4,750
4. Do Do at Adamapally	1,800
5. Do for a Bund across the Main Canal in the 4 th mile	76
6. Do for additions & repairs to the Hospital at Bonthavala	683
7. Do for repairs to the Office & Store Buildings at Bonthavala	150
8. Do for a Bazaar in connection with Bonthavala Bazaar	3,060

Of these the first five received the sanction of Government during the quarter, the next two have since been sanctioned, and the last was refused sanction for the reasons given in Government Order No. 1953 dated 2nd July 1867.

18. Two estimates Rupees 13,600 for Bridges for the 2nd and 3rd Sections, which were submitted during the previous quarter, likewise received sanction.

19. The cost of the Executive permanent Establishment amounts for this quarter to 42.6 per cent on the expenditure for Construction; that of the temporary establishment to 2.5 per cent; that of establishments engaged

Have the honor to be
 Sir,
 Your most obedient servant,
 Wm. Mullins Captain, R.E.
 Case Engineer S. F. C. Company.

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