

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public works* **DEPARTMENT.**

G.O. No. 508,509	2072	Press Mis.
Dated	29 8	18 11.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
29th August 1872.*

No. 503. Read the following letter from the Acting Chief Engineer for Irrigation, to the Secretary to Government, Public Works Department, dated Ootacamund, 12th August 1872, No. 28 :—

I HAVE the honour to submit the following report on the progress made with the works of the Madras Irrigation and Canal Company during the quarter ended 31st December 1871.

Expenditure during the quarter.—The total expenditure for the period under review amounted to Rupees 40,411, as compared with Rupees 83,644 for the previous quarter.

2. The following is a detailed statement of the items on which the above outlay was made :—

1st Section, Main Canal (including head-works).—Rupees 831-2-10 on the 1st Section, Main Canal, 1 to 17½ miles, the items being—

	RS.	A.	P.
Anicut and head-works	2	1	2
Earthwork	60	0	0
Revetment and shingling	345	11	0
One culvert, No. 9	5	0	0
One waste weir, No. 9...	0	8	4
Special superintendence and sundries	8	8	0
Store and store charges	409	6	4

2nd Section.—Rupees 523-12-5 on the 2nd Section, from the 17½ to the 32nd mile, the particulars being—

Earthwork	383	14	8
Canal walls	123	5	9
One waste weir, No. 13	8	0	0
Contingencies	8	8	0

3rd Section.—Rupees 653-5-5 on the 3rd Section, from the 33rd to the 43rd mile, the details being—

Excavation and embankment	520	0	0
Masonry wall in banks	110	3	10
Contingencies for earth and masonry works	23	1	7

4th Section.—Rupees 129 on the 4th Section, or miles 44 to 60 of the canal, namely, on—

Excavation and embankment	22	4	0
Revetment and shingling	106	12	0

5th Section.—Rupees 1,870-5-1 on the 5th Section, from the 61st to the 72nd mile, the items being—

Excavation and embankment	1,847	13	1
Contingencies	22	8	0

6th Section.—Rupees 645-11-4 on the 6th Section, or miles 73 to 91, namely, on—

Excavation and embankment	7	11	0
Lock No. 1, regulating	1	0	0

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	RS.	A.	P.
Lock No. 2, with second-class bridge	58	1	7
Do. „ 3, with one culvert	6	0	0
Do. „ 5, „ „ roadway	3	6	0
Do. „ 6, „ „ three do.	4	2	0
One culvert No. 8	11	4	0
Lock gate	3	8	7
Contingencies including cost for the repair of the Ayaloor bungalow	105	7	2

7th Section.—Rupees 127-15-0 on the 7th Section, miles 92 to 114, for—

Bridge, third class	60	8	0
Do., first „ at Ayaloor	9	0	0
Waste weir, No. 9	24	0	0
Contingencies	31	7	0

8th Section.—Rupees 917-5-9 on the 8th Section, miles 115 to 143, the items being—

Embankment and cutting	138	4	10
Lock of 10 feet left at 117th mile	0	4	5
Do. do. do. at 118th do.	0	4	5
Do. do. do. at 121st do.	0	4	5
Do. do. do. at 122nd do.	0	4	5
Do. do. do. at 123rd do.	0	4	5
Do. do. do. at 124th do.	0	4	5
Do. do. do. at 125th do.	0	4	5
Do. do. do. at 126th do.	0	4	5
Do. do. do. at 137th do.	0	4	5
Do. do. do. at 115th do.	0	4	5
Do. of 8 do. at 119th do.	16	4	5
Do. of 7 do. at 129th do.	0	4	5
Do. of 13½ do. at 132nd do.	0	4	5
Do. of do. at 136th do.	300	4	5
Do. of 12 do. at 140th do.	0	4	5
Do. do. do. at 142nd do.	0	4	5
Do. of 11 do. at 144th do.	0	4	6
Two culverts	108	4	0
Special superintendence and sundries	380	1	9

9th Section.—Rupees 482 on the 9th Section, or miles 144 to 178 of the canal on earthwork.

10th Section.—Rupees 5 on the 10th Section, miles 179 to 180 of the canal on—

Head lock and bridges at Adamapully, Rupees 5.

Adamapully Anicut.—Rupees 21-0-0 were expended on this work.

3. Distribution Works.—The outlay on works of distribution was Rupees 29,337-3-6, namely, on the—

	RS.	A.	P.
1st Section	12	13	4
2nd do.	71	11	4

*Proceedings of the Madras Government, Public Works Department,
29th August 1872.*

	RS.	A.	P.
3rd Section... ..	61	8	0
4th do.	163	9	8
5th do.	217	1	0
6th do.	2,174	2	8
7th do.	4,313	5	11
8th do.	7,664	0	5
9th do.	13,116	7	10
10th do.	1,542	7	4

4. Breach repairs of August 1870.—The outlay on breach repairs was Rupees 89-6-0, as shown below:—

	RS.	A.	P.
2nd Section, Main Canal	30	6	0
3rd do., do.	59	0	0

5. Buildings.—Rupees 685 were expended under this head on sluice-keepers' huts.

6. Telegraph Line.—Rupees 73-7-9 were expended on the telegraph line from Soonkasala to Cuddapah.

7. Abstract of Expenditure.—The following statement shows the expenditure on all works from the commencement to the close of the quarter compared with sanctioned estimates:—

Proceedings of the Madras Government, Public Works Department,
29th August 1872.

Kurnool Town water-supply ...	1,699	1,417	.....	1,417	.....	.....	1,417	.....	282	.....
Total...	3,13,073	1,55,176	29,337	1,84,513	.....	.....	1,84,513	.....	1,28,560	.....
Breach repairs of August 1870 ...	68,570	59,706	89	59,795	.....	807	58,988	.....	9,582	.....
<i>Buildings.</i>										
Central Hospital, with out-houses and compound wall, at Kurnool ...	5,050	4,781	.....	4,781	.....	.....	4,781	.....	269	.....
Repairs to do. do. ...	68	60	.....	60	.....	.....	60	.....	8	.....
Overseer's hut at Kurnool ...	1,245	.....	.....	.....	.....	.....	.....	.....	1,245	.....
Office, Storehouse, and Workshop at Soonkasala. Powder Magazine, Store, and Station roads at Bowanassy Division ...	5,947	5,986	.....	5,986	.....	.....	5,986	.....	.....	39
Office, Store-room, and Artificers' shed at do. ...	4,359	4,359	.....	4,359	.....	.....	4,359	.....	.....	.....
Repairing the above buildings ...	7,298	7,523	.....	7,523	.....	.....	7,523	.....	423	.....
Improvement of the road approaching to the above buildings, and repairing culverts at Bowanassy. Converting the unfinished building intended for a Gun Powder Manufactory into a Hospital at Bowanassy ...	578	318	.....	318	.....	.....	318	.....	260	.....
Office and Store buildings at Valapanoor in do. ...	427	31	.....	31	.....	.....	31	.....	395	.....
Do. do. at Jupaud in Nagatoor do. ...	1,970	1,990	.....	1,990	.....	.....	1,990	.....	.....	20
Do. do. at Purgaydial in do. ...	4,123	4,782	.....	4,782	.....	.....	4,782	.....	.....	659
Do. do. at Chintagoonta in Koondaur do. ...	3,977	3,833	.....	3,833	.....	.....	3,833	.....	144	.....
Do. and temporary Store-shed at Ayalore in do. Repairs to Ancient Offices at Zorapore ...	5,283	5,278	.....	5,278	.....	.....	5,278	.....	5	.....
Office, Store, and Workshop at Kurnool ...	612	67	.....	67	.....	.....	67	.....	575	.....
Iron and Brass Foundry at do. Room for receiving and despatching stores at do. ...	327	308	.....	308	.....	.....	308	.....	19	.....
Quarters for Sub-Assistant Engineer and Assistant Surveyors at Koondaur ...	30,612	15,158	.....	15,158	.....	.....	15,158	.....	15,454	.....
Engineer's bungalow at Dhoor ...	15,328	15,168	.....	15,168	.....	.....	15,168	.....	160	.....
Sluice-keepers' huts ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total...	97,298	77,260	685	77,945	.....	.....	77,945	.....	20,071	718
Line of Telegraph ...	72,000	60,416	4,063	64,479	.....	96	64,383	.....	7,617	.....
Grand Total...	1,18,15,883	1,08,66,667	40,411	1,09,07,078	.....	4,248	1,09,02,830	.....	10,78,577	1,65,524

2

*Proceedings of the Madras Government, Public Works Department,
29th August 1872.*

Quarter's Expenditure.—It will be remarked that the expenditure of the quarter is shown to have been Rupees 40,411, and the net total outlay, up to 31st December 1871, Rupees 1,09,02,830.

7. *Excess Expenditure.*—The subjoined statement shows the expenditure in excess of sanction at the end of the quarter to have been Rupees 1,65,524:—

Works.	Excess expenditure up to 30th Sept. 1871.	Excess expenditure during the quarter ended 31st Dec. 1871.	Total.	Add transferred to this from other works.	Deduct refunds.	Excess net expenditure on 31st Dec. 1871.
<i>Main Supply.</i>						
Hindry aqueduct ...	75	...	75	...	...	75
Ancient and head-works at Adamapully ...	91,635	21	91,656	...	1,205	93,461
Main Canal, 1st Section ...	23,600	829	24,429	...	756	24,673
Do., 2nd do. ...	6,835	524	7,359	...	697	6,662
Do., 8th do. ...	40,989	947	41,936	...	891	41,045
Total...	1,65,631	2,321	1,67,952	...	3,149	1,64,803
<i>Buildings.</i>						
Office, Store-house, and Workshop at Soonkasala ...	39	...	39	...	...	39
Do. do. at Valapannoor ...	20	...	20	...	...	20
Do. do. at Jupaud ...	659	...	659	...	...	659
Total...	718	...	718	...	...	718
Grand Total...	1,66,349	2,321	1,68,670	...	3,149	1,65,521

8. *Preparation of Revised Estimates.*—A revised estimate for the ancient and head-works at Adamapully has been received and submitted to Government and for the other works in which excesses are shown. The matter is now under the consideration of the Acting Chief Engineer of the Company with a view to revised estimates being submitted.

9. *Estimates submitted to Government during the quarter.*—No estimates were submitted to Government during the quarter.

Estimates sanctioned.—No estimates were sanctioned during the quarter.

Cost of Establishments.—The cost of executive permanent establishments amounts for the quarter to 1.7 per cent. on the expenditure for construction; that of the temporary establishments to .3 per cent.; and that of the general management to 34.0 per cent.

Total Cost of Establishments.—The total cost of the permanent establishment was, therefore, 35.7, and of temporary establishment .3 per cent. on the expenditure.

No 509.

ORDER THEREON, 29th August 1872, No. 2,072.

IRRIGATION, No. 21.

ORDERED that this report be forwarded to the Home Government.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Acting Chief Engineer for Irrigation.

.. Agent and Manager of the Mahas Irrigation and Canal Company.

Exd. E. C. Shunker.

PUBLIC WORKS DEPARTMENT.

No. 19 of 1872.

TO THE RIGHT HONOURABLE
THE SECRETARY OF STATE FOR INDIA.

My LORD DUKE,—We have the honour to forward the accompanying Report on the progress of the works of the Madras Irrigation and Canal Company
Procs. No. 2,072, dated 29th August 1872.
during the quarter ending 31st December 1871.

We have the honour to be,

My Lord Duke,

Your Grace's most obedient,
humble servants,

OOTACAMUND,
6th September
August 1872.

Exd. E. C. Shunker.

OOTACAMUND.
PUBLIC WORKS DEPARTMENT.

Letter to the Right Honourable
the Secretary of State for
India.

Dated 11th September
August
No. 17 of 1872.

FORWARDING a report by the Chief Engineer
for Irrigation on the progress of works of the
Madras Irrigation and Canal Company during
the quarter ending 31st December 1871.

Ootacamund
N^o 28 12th August 1872
The Ag. Chief Engineer for Irrigation
of
The Secretary to
Government of the Department

Sir,
I have the honor to submit the
following report on the progress made with
the works of the Madras Irrigation and
Canal Company during the quarter ended
31st December 1871.

Expenditure
during the quarter

The total expenditure for the period
under review amounted to Rs 40,411 --
as compared with Rs 83,644 for the pre-
vious quarter.

The following is a detailed statement
of the items on which the above outlay
was made.

1st Section Main Canal (including
head works) Rs 831-2-10 on the 1st Section Main
Canal, 1 to 17¹/₄ miles, the items being
Ancient and Head works Rs 2-1-2
Easthunk

Earthwork Rs. 60 - - -
 Revetment & Shingling " 345 11 - -
 One culvert No 9 " 5 - - -
 One waste weir No 9 " 8 - 11
 Special Superintendence & Sundries 8 8 - -
 Store & Store Charges 109 - 6 - 11

Rs 523-12-5 on the 2nd Section from the 17½ mile
 32nd mile, the particulars being:

Earthwork Rs 383 - 14 - 8
 Canal walls 123 - 5 - 9
 One waste weir No 13 " 8 - - -
 Contingencies " 8 - 8 - -

Rs 653-5-5 on the 3rd Section from the
 33rd to the 43rd mile, the details being:

Excavation & Embankment Rs 520 - - -
 Masonry Wall in banks " 110 - 3 - 10
 Contingencies for Earth and
 Masonry work " 23 - 1 - 7

Rs 129 - - on the 4th Section or miles 44 to
 60 of the Canal, namely:

Excavation & Embankment Rs 22 - 1 - -
 Revetment & Shingling " 106 - 12 - -
 Rs.

5th Section Rs 1870-5-1 on the 5th Section from the 61st
 to the 72nd mile, the items being:

Excavation & Embankment Rs 1847-13-1
 Contingencies " 22 - 8 - -

6th Section Rs 645-11-4 on the 6th Section or miles 73rd
 to 91st namely:

Excavation & Embankment Rs 7-14 - -
 Lock No 1 Regulating " 1 - - -
 do " 2 with 2nd class bridge " 58 - 1 - 7
 do " 3 " 1 Culvert " 6 - - -
 do " 5 " do Roadway " 3 - 6 - -
 do " 6 " 3 do " 4 - 2 - -
 One culvert No 8 " 11 - 4 - -
 Lock gate " 388 - 8 - 7
 Contingencies including cost for the
 repair of the Ayahar Bungalows Rs 165-7-2

7th Section Rs 127-15-0 on the 7th Section miles 92 to 114 for:

Bridge 3rd class Rs 60 - 8 - -
 do 1st do at Ayahar " 9 - - -
 Waste weir No 9 " 24 - - -
 Contingencies " 34 - 7 - -

8th Section Rs 947-5-9 on the 8th Section miles 115 to 143
 the

The items being
 Embankment & cutting Rs 138 - 11-10
 Lock of 10 feet depth at 117 miles 14-5

do 118 14-5

do 121 14-5

do 122 14-5

do 123 14-5

do 124 14-5

do 125 14-5

do 126 14-5

do 137 14-5

do 115 14-5

do of 8 feet 119 16-4-5

do of 7 129 4-5

do of 13 1/2 132 4-5

do 136 300-4-5

do of 12 140 4-5

do 142 4-5

do 144 4-6

Two Culverts 108-4-

Special Superintendence & salaries 380-1-9

Rs 482 - on the 9th Section, or miles 144 to 178 of the Canal on Earthwork.

Rs

9th Section

10th Section Rs 5 - on the 10th section miles 179 to 186 of the Canal in Head Lock & bridges at Adamapully Rs -

Adamapully Rs 21-9- were expended on this work

Distribution works The outlay on works of distribution was Rs 29,337-3-6 namely on the 1st Section Rs 12-13-4.

2nd do 71-11-4

3rd do 61-8-

4th do 163-9-8

5th do 217-1-

6th do 2174-2-8

7th do 4313-5-11

8th do 7664--5

9th do 13116-7-10

10th do 1542-7-4

Breach repairs The outlay on Breach repairs was of August 1870 Rs 89-6- as shown below

1st Section main Canal Rs 30-6-

2nd do 59-

Buildings Rs 685 were expended under this head on Police Keepers' huts.

Telegraph Line Rs 73-7-9 were expended on the Telegraph line from Somkavala to Cuddapah.

Abstract of expenditure The following statement shows the expenditure on all works from the commencement to the close of the quarter compared with sanctioned estimates

Walter

Works	Amount	Expense	Product	Balance	Amount	Expense	Product	Balance
Quaint and Head ports at Annual	303080	60327						
do do at Simkara	48522	470212						
do do at Sonawarman	171727	66134						
do do at Admanpully	34440	439925						
Quaint and Head ports at Annual	27628	276325						
do do at Simkara	65000	49285						
do do at Admanpully	107367	1097287						
do do at Sonawarman	196330	1969705						
do do at Admanpully	97570	911874						
do do at Sonawarman	105521	980065						
do do at Admanpully	800735	874154						
do do at Sonawarman	944521	862303						
do do at Admanpully	743421	664958						
do do at Sonawarman	780111	825102						
do do at Admanpully	945837	778229						
do do at Sonawarman	256327	193034						
Total	1126494210514109	62371050346						

Richardson

Branch channels & sources of	1 st Section	7003	5374	13	5387	5387	166
Distribution works of	2 nd do	6000	5090	72	5762	5762	838
do do	3 rd do	11150	10196	61	10257	10257	893
do do	4 th do	46777	33158	164	33302	33302	13475
(Constructing a sand across the	4 th do	760	730	27	730	730	73
Canal for the 45 mile	5 th do	20550	9672	217	9289	9289	11261
Distribution works of	6 th do	71600	4001	2474	42175	42175	29225
do do	7 th do	42065	12998	4313	17311	17311	24734
do do	8 th do	49000	14702	7664	22366	22366	26634
do do	9 th do	26648	17037	13116	30153	30153	16295
do do	10 th do	10170	5753	1543	6696	6696	3304
do do	at Simkaval	925	925	.	925	925	.
Annual Drain water supply		1699	1417	"	1417	1417	282
Total		213073	155176	29337	184513	184513	128560
Branch repairs of August 1890		68640	59706	89	59795	59795	9582
Contract Hospital with Mr. Chas. Simpson & Co. at Kurnool		5057	4781	.	4781	4781	269
Repairs to do do		68	60	.	60	60	8
Repairs to do at Kurnool		1245	"	"	"	"	1245
Office Store House & Workshop at Simkaval		5947	5986	"	5986	5986	.

Order Magazine, Store & Station roads at Bommanji & Co.	4359	4359	4359	4359
Office, Station & Order shed at	7290	7290	7290	7290
Repairing the above buildings	6483	6483	6483	6483
Improvement of the road approaching the above factory	578	578	578	578
Repairs & repairs culverts at Bommanji	318	318	318	318
Constructing the unfinished building intended for a	427	427	427	427
Quintessence manufacturing into a distillery at Bommanji	1990	1990	1990	1990
Office & Store buildings at Valapannam	4782	4782	4782	4782
at	3833	3833	3833	3833
at	5278	5278	5278	5278
at Chuliyam in the	642	642	642	642
at	327	327	327	327
at	3012	3012	3012	3012
at	15158	15158	15158	15158
at	15328	15328	15328	15328
at	1236	1236	1236	1236
at	561	561	561	561
at	4923	4923	4923	4923
at	2134	2134	2134	2134
Total	97298	97298	97298	97298
of Telegraph	7207	7207	7207	7207
Grand Total	1181383	1181383	1181383	1181383

Quarterly Expenditure.

It will be remarked that the expenditure of the quarter is shown to have been Rs 40,411 and the net total outlay up to 31st December 1871 Rs 119,028.30.

Excess expenditure.

The subjoined statement shows the expenditure in excess of sanction at the end of the quarter to have been Rs 165,524.

Make

Excess expenditure
from sup to 30
September 1871
Excess expenditure
from adding the
quarterly expenditure
to December 1871

add
trans-
Total found to be
deduct from
this from
refunds
works
Excess
net expenditure
on
31st Decem-
ber 1871

From Supply

Handy Aqueduct	75	75	75	75
Amment & Head works at Arignapully	94635	21	94656	1205
Minor Canal	23600	829	24429	756
do	6335	524	6859	597
do	40989	947	41936	591
Total	165634	2321	167955	3149

Buildings

Office Store and Workshop at Sontkasala	39	39	39	39
do at Valapannam	20	20	20	20
do at Jupand	659	659	659	659
Total	718	718	718	718

Grand Total 166352 2321 168673 3149 165524

Preparation
of Revised estimate

A revised estimate, for the Amment & Head works at Arignapully has been received and submitted for Government and for

for the other works in which excesses are shown. The matter is now under the consideration of the Acting Chief Engineer of the Company with a view to revised estimates being submitted.

No estimates were submitted to Govt. Estimates submitted to Govt. during the quarter. ment during the quarter.

No estimates were sanctioned during the quarter. Estimates sanctioned

The cost of executive permanent establishments amounts for the quarter to 1.7 per cent on the expenditure for construction that of the temporary establishments to 3 per cent; and that of the General Management to 34.0 per cent. Cost of Estab-lishments

The total cost of the permanent establishment was therefore 35.7 and of temporary establishment .3 per cent on the expenditure. Total cost of establishments

I have the honor to be
Sir,
Your most Obedient servant

W. Lucatt Captain

for Ag. Chief Engineer for Legation

[Faint handwritten notes and signatures in the top right corner of the page.]

[Faint handwritten notes in the middle right section of the page.]

Honor

the other works in which excesses are

P. W. L. D. C. 1872
S. 1901/1872

P. W. L. D. C. 1872
S. 1901/1872

No 4013.

From

The Chief Eng^r
for Irrigation

To The Secretary to Government
D. P. W.

Dated 12th } August 1872
Per 17th }

Forwarded Progress
Reports of the Madras &
Canal for the quarter
ended 31st December 1871

No 2072. 29th Aug 1872

No 528

Recd to Ady 19 Aug 1872

12 1901/72

No 2072.

Proceedings of the Madras Government

Under date the 29th August 1872
Had the following

From the Ady Chief Eng^r
for Irrigation. (Recd to Ady 19 Aug 1872)

Ordered that the

report be forwarded to
the Home Government

To The Chief Eng^r for Irrigⁿ
Agent & Manager
M. S. Canal Com^y S. H. C. No 1901/1872

Recd to Ady 19 Aug 1872

The Right Honorable
The Secretary of State
for India.

My Lord Duke

We have the
Honor

1871-
~~Charles H. Hays~~
 Not to be forwarded to
 the Bureau

Copy sent to Govt of Ind
on the 17. Sept/72.-

Theophilus
 - 1890
 1890

Mr. J. C. Lee

Fort L. B. Gray
 Public Works Department
 Wash. D.C.

The Honble Right Honourable
 Secy of State for India
 Dated 25 September 1872.
 Original & Copy sent per
 Oberland mail on the
 17th Sept/72 -

Forwarding a re-
port by the best way
for irrigation on the
crop of marks of
the M. S. Co. During
the quarter ending
31st Dec/71.

P. W. Sub. Engd 276. 24/77
No 19 -

C/4013

Gobt. of 1872 Madras.
PUBLIC WORKS.

To the Chief Engg for
Irrigation

Dated

Recd.

Encl.

G. O. 29 Aug 2072.

Nos. 5789509

Case & Report submitted
for the Chief Engg for
Irrigation, of the marks
of the M. D. Co. Dm
the Quarter ending
31 Dec/1 ordered to be
forwarded to the
Home Govt.