

(1) Number of pages 7

(2) Date of repair 1/1/71

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

P. W. D. DEPARTMENT.

G.O. No.	953	Press
723-24		~~Mis.~~
Dated	31-3	1871.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
31st March 1871.*

No. 723. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 13th March 1871, No. 136 :—

REFERRING to Order, as per margin, sanctioning estimates for repairing damages sustained by the Main Canal from the floods of August 1870, which included sums, amounting to Rupees 17,580-8-0, for restoring a slip at 23 miles 1 chain, and for closing a breach at 23 miles 27 chains, I have the honour to submit a revised estimate, amounting to Rupees 21,060-8-0, and to ask for supplemental sanction for the difference, Rupees 3,480, in accordance with the enclosed letters from the Agent and the Chief Engineer, and which are accompanied by the prescribed comparative statement, and by explanatory drawings.

2. The necessity for revised estimates is explained to be owing to a further movement having taken place at the site of the first-mentioned slip in December 1870, and to additional slips having occurred at the breach in December 1870, and in January 1871.

3. The new work proposed to the first-mentioned slip is shown in drawing No. 578, estimated to cost Rupees 1,400, and which will probably answer.

4. The additional expenditure proposed on the breach is estimated at Rupees 2,080, and the drawings Nos. 577 and 579 are illustrative of the work, part of which has become necessary from slips in the new work done after the breach of August 1870 having taken place in December of that year and the following month. Looking to the Chief Engineer's description of the bottom on which the canal bank is founded, which is pretty much of the nature of quick-sand over an irregular surface of kunkur and rock, I have no confidence in the stability of the repairs proposed, and shall be very apprehensive that the canal will again breach at this place when water is re-admitted in July or August next. The breach ought to have been dug out until rock or some solid bed was reached, and which I can only suppose was not done because of the great extra expenditure that would have been necessary. The Chief Engineer has taken the next best method of securing the work by putting in a foreshore of shingle on a rocky foundation, which he considers will be sufficient to retain the toe of the bank until the foundation of the bank has settled down firm. I cannot acquiesce in his opinion; but it is too late now to do more, and I can only recommend that the repairs as proposed be tried, and that the supplemental amount be sanctioned debitable, as the former estimates for breach repairs, to Capital.

From the Agent and Manager of the Madras Irrigation and Canal Company, to the Consulting Engineer for the Madras Irrigation and Canal Company, dated Madras, 9th March 1871, No. 111.

I HAVE the honour to forward copy of Chief Engineer's letter, No. 319, of 28th February 1871, and to apply for additional sanction of Rupees 3,480 for repairs of slips in the 24th mile of the 2nd Section, Hindry Division.

*Proceedings of the Madras Government, Public Works Department,
31st March 1871.*

2. The under-mentioned plans and estimates accompany the letter—

- 1 Plan of repairs of 24th mile breach, 2nd Section.
- 1 „ of cross section of do. do.
- 1 „ of breach of August 1870.
- 1 Supplemental estimate of breach.
- 1 Comparative statement.

From the Chief Engineer, to the Agent and Manager of the Madras Irrigation and Canal Company,
dated Kurnool, 28th February 1871, No. 319.

I HAVE the honour to apply for additional sanction for repairs of slips in the 24th mile. It is due about half to the substitution of dry stone filling for earth, and about half to an additional mass of dry stone proposed to be placed along the foot of the slip; also the toe of one slip in the breach is being cut off to preserve a line and reach the rock.

2. The nature of both slips is, I think, pretty apparent, and is due to the quick character the silt retains on which the banks stand, and which itself lies below water level on a very irregular surface of morass kunkur and rock.

3. The breach was closed on a site partly on shallow rock, and partly on 13 feet and more of slushy silt lying on morass; but a rocky foundation can be reached for a foreshore of shingle, which will be sufficient to retain the toe till the foundation is squeezed down firmer in time. The chief slip was on 28th December.

4. The old slip began to move on the 15th December, and continued to do so some days.

• i.e., of bigger stones.

As the toe is under water, a heavier* (and of course more expensive) dry rubble filling is

being put to form the foreshore than would otherwise be needed.

5. The charge will be to "breach repairs."

No. 724.

ORDER THEREON, 31st March 1871, No. 953.

IRRIGATION, No. 60.

With his letter above recorded the Consulting Engineer for the Madras Irrigation and Canal Company submits a revised estimate of Rupees 21,000-8-0 for making good certain damages in the 2nd Section of the Main Canal for which sums amounting to Rupees 17,580 were provided in the sanction accorded for repairing the disasters of August last.*

* G. O., No. 227, dated 26th January 1871.

2. It is explained that the necessity for the additional amount of Rupees 3,480, now asked for, is due to slips having occurred in December and January owing to the insecure character of the bed on which the canal bank is founded, and which the Chief Engineer proposes to remedy by putting in a mass of shingle to form a foreshore which, resting upon rock, he believes will prevent future displacement of the bank.

3. Although the efficiency of the means proposed for filling in the slips appears questionable, yet, looking to the lateness of the season, there seems no alternative but to carry out the work in the manner suggested. His Excellency the Governor in Council accordingly sanctions the revised estimate in its present

*Proceedings of the Madras Government, Public Works Department,
31st March 1871.*

form, and directs that the supplemental amount be charged, as in the case of the restorations provided for in the original estimate, to Capital.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Consulting Engineer for the Madras Irrigation and Canal Company with six Enclosures.
„ Agent and Manager for do. do.

Exd. E. C. Shunker.

breach in December 1870 and in January

Govt. of 1871 Madras.

PUBLIC WORKS.

THE CONSULTING ENGINEER
FOR THE MADRAS IRRIGATION AND
CANAL COMPANY.
&c. &c. &c.

Dated March 31st.

Sd/-

G. O. 31st March 1871, No. 953

SEARCH
No. 723-724

Madras Irrigation and Canal Company's
Main Canal.—The revised estimate of
Rupees 21,060-8-0 for repairing damages
sustained by the Madras Irrigation and
Canal Company's Main Canal in August
last, sanctioned with remarks.

Enclosures 6
1 Letter in orig. from Agent
3 Plans
1 Sup. Estimate
1 Comparative Statement
6

Consulting Engineer (Office)
Irrigation Canal Company
Madras, 13 March/71.

No. 136.
3
To, Colonel, C. Carpendale
Consulting Engineer for S. C. Co.
The Secretary to Government
Public Works Department.
Sir,

No. 227-26 Camp/71.

From Agent No. 111-
9 March/71.

Referring to Order per margin sanction-
ing estimates for repairing damages sustained by
the Main Canal from the floods of August 1870—
which included sums amounting to Rupees 17,580-
8-0 for restoring a slip at 23 miles 1 chain, and for
closing a breach at 23 miles 27 chains, I have the
honor to submit a revised estimate amounting to
Rupees 21,060-8-0 and to ask for supplemental
sanction for the difference, Rupees 3,480-0-0, in
accordance with the enclosed letters from the Agent
and the Chief Engineer, and which are accompanied
by the prescribed Comparative statement and by
explanatory drawings.

2. The necessity for revised estimates is explained
to be owing to a further movement having taken
place at the site of the first mentioned slip in De-
cember 1870, and to additional slips having occurred
at the breach in December 1870 and in January 1871.

3. The new work proposed & the first mentioned slip is shown in drawing N^o 578 estimates to cost Rupees 1400, and which will probably answer.

4. The additional expenditure proposed on the breach is estimated at Rupees 2080 and the drawings N^{os} 577 and 579 are illustrative of the work part of which has become necessary from slips in the new work done after the breach of August 1870 having taken place in December of that year and the following months. Looking to the Chief Engineer's description of the bottom on which the Canal bank is founded, which is pretty much of the nature of quicksand over an irregular surface of kunkur and rock, I have no confidence in the stability of the repairs proposed, and shall be very apprehensive that the Canal will again breach at this place when water is readmitted in July or August next. The breach ought to have been dug out until rock or some solid bed was reached, and which I can only suppose was not done because of the great extra expenditure that would have been necessary. The Chief Engineer has taken the next best method of securing the work by putting in a foreshore of shingle on a rocky foundation, which he considers will be sufficient to retain the toe of the bank until the foundation of the bank has settled down firm. I

cannot acquiesce in his opinion, but it is too late now to do more, and I can only recommend that the repairs as proposed be tried, and that the supplemental amount be sanctioned desirable, as the former estimates for breach repairs, & Capital.

Have the honor to be,
Sir,
Your most obedient servant,
J. H. M. S. A. L.
Chief Engineer for the Company.

C. M. B. -

Proceedings of the Madras Government
Under date the 31st March/71.
Read the following.
From The Cons. Eng^r for S.C.C. H.E. No 136 dated 13th March 1871.

With his letter above recorded the Cons Engineer for the Madras Irrigation and Canal Company submits a revised estimate of Rs 21,060-8 for making good certain damages in the 2nd section of the main Canal for which sums amounting to Rs 17,580 were provided in the sanction accorded for repairing the disasters of August last. It is explained that the necessity for the additional amount of Rs 3,480

R.O. 2278 26 Jan'y/71.

Recd 26 January/71 1871

Recd 15th March/71
From the Cons. Eng^r for S.C.C.
The Secretary S.C.C. & P.W.

Recd 14th March/71.

Enc: 6.

Submits for supplementary sanction revised estimate amounting to Rs. 3480 for restoring slip at 23 miles from P. for clearing breach at 23 miles from P. & 2nd Section Main Canal.

No 953-01 dated 1/71

No 723

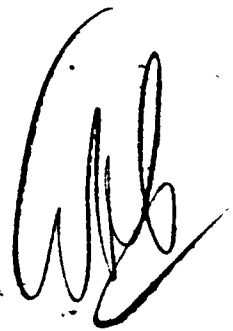
19 March/71 1871

now asked for is due to slips
having occurred in December
and January owing to the
insecure character of the
bed on which the Canal
bank is founded and which
the Chief Engineer proposes
to remedy by putting in
a mass of shingle to form
a foreshore which, resting
upon rock, he believes will
prevent future displac-
ement of the bank.

Although the efficiency
of the means proposed for
filling in the slips appears
questionable, yet, looking
to the lateness of the season
there seems no alternative
but to carry out the work
in the manner suggested.

His

His Excellency the Governor
in Council accordingly
sanctions the revised
estimate in its present
form and directs that
the supplemental amount
be charged, as in the case
of the restorations provided
for in the original estimate
to Capital.



21/3

Lo.
The bridge for the M. & C. Co. with figures ✓
Agent: Manager oo - oo ✓

Desp. 1/4/77

C/157

Govt of 1871 Madras.

PUBLIC WORKS.

1. The Consulting Engrs.
for the Madras
Irrigation and
Canal Company.

Printed

at the

G. O. 31st March 1871, No. 953.

Nos. 723-1724

Madras Irrigation and Canal Co. has
received estimate of Rs 21,000 for
repairing damages sus-
tained by the Madras Irrigation
Canal in Aug. last,
and has sanctioned with Rs.