

(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. 932	Press
25-26	Mis.
Dated 2 4	1870.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd April 1870.*

No. 25. Read the following letter from Colonel J. CARPENDALE, R. E., Acting Consulting Engineer for the Madras Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 28th February 1870, No. 139 :—

I HAVE the honour to submit an estimate, amounting to Rupees 13,300, and accompanied by a drawing and the letters as per margin for protecting dry rubble walls called Nos. 2 and 3 in the 26th mile of the Kurnool and Cuddapah Canal, and one in the 29th mile called No. 4, with a lining of puddle covered by a layer of shingle, with the view of stopping the serious leakage which was mentioned in paragraph 8 of my inspection report dated 30th November 1869.

From Agent, No. 410, 9th December 1869.
" " " 75, 18th February 1870.

One plan.
Two estimates.

2. The improvement proposed appears to me suitable for the object to be attained, and the rates are reasonable, namely :—

	RS.	A.	P.	
Puddle lining to walls	1	0	0	per cubic yard.
Do. filling in trench at bottom	0	12	0	" "
Shingle covering to puddle lining	0	4	0	" "
Masonry coping on roadway	2	8	0	" "
Filling in bank under the puddle lining and on roadway	0	2	0	" "
Excavating trench	0	2	0	" "
Contingencies 10 per cent.				

3. I beg leave to recommend the estimate for sanction; and, as the Company's officers are most anxious to proceed with the work, I solicit the early orders of Government.

4. The closing paragraph of the letter from Hindry Division, No. 53, 11th February 1870, embodied in the Agent's No. 75, is incomplete; but does not, I think, affect the sanction for this estimate.

From the Assistant to Chief Engineer, to the Agent and Manager, Madras Irrigation and Canal Company, dated Kurnool, 3rd December 1869, No. 1,061.

I HAVE the honour, at the Chief Engineer's request, to send you a drawing and estimate of the proposed arrangement for protecting the dry rubble walls in the 2nd Section, Hindry Division. Mr. Knorpp has been asked for a memorandum to explain them; but the Chief Engineer would like them to be brought to the Consulting Engineer's notice without delay; he, therefore, sends them now.

No. 410.

COPY forwarded to the Consulting Engineer, with one drawing of section, one detailed estimate, and one abstract estimate.
MADRAS,
9th December 1869.

(Signed) F. H. HENSLOWE,
Agent and Manager.

From C. B. KNORPP, Esq., Executive Engineer, to the Chief Engineer, Madras Irrigation and Canal Company, dated Hindry Division, Kurnool, 11th February 1870, No. 53.

In reply to your letter, No. 95, of 9th February 1870, enclosing Consulting Engineer's letter, No. 308, of 31st January 1870, I have the honour to say that I think the puddling of the inside slope of the dry rubble walls* will render them watertight, and, as their sections will then be

* In 26th and 29th miles.

strong enough to bear any weight that may be brought against them, I should recommend the

Fin

Li

From August 1841 to 1842
 - - - - - 1845-1846

1 Plan.
2 Estimates

15

2 The improvement proposed appears to me suitable for the object to be attained and the rates are reasonable namely:-

Reasonable manner:-
 Puddle lining to walls. R.A.P. 1-1-1 D Cubic yard
 Puddle filling in trench } -1-12-1 D -1-1-1
 at bottom _____
 Shingle covering to puddle } -1-1-1 D -1-1-1
 lining _____
 Masonry coping on roadway 2-8-1 D -1-1-1
 Felling

puddling to be carried out. It would probably be sufficient to puddle the corners of Nos. 2 and 3 walls where they join on to the masonry walls, and in the same way only about half the length of No. 4 wall (25th mile) appears to require strengthening, but, of course, the proposed arrangement will make the effect of this mode of strengthening these walls go to zero.

2. The Consulting Engineer will find from the original plan that the 1" dry rubble wall in 26th mile; it is the only wall being in 22nd mile.

2. The Consulting Engineer will find from the estimates that a good estimate is needed for the 1" dry rubble wall in 26th mile; it is there estimated at 1000 tons.

3. I regret that your docket, No. 704, of 27th November 1869, did not attract my attention as I was of opinion that nothing further was wanted from me after my No. 446 of 27th November 1869. I would ask you to get the Consulting Engineer's report on the canal at once. The inside of canal at No. 2.

4. I also beg to draw your attention to the fact that the land requested for the golfing earth, for which I applied by my No. 436 of 24 November 1969

(Sic)

COPY forwarded

Copy forwarded to the Agent and Manager with reference to L.S. No. 43 of 2nd instant communicating the Consulting Engineer's No. 309 of 31st ultimo requesting that the Comptroller Engineer may be pressed for an early approval of this work. As a preliminary it will be well to obtain his immediate consent to the commencement of the work.

KERNOL,
12th February 1870.

Copy forwarded to the Consulting Engineer with a request that early action be taken for the execution of the proposed work.

MADEIRA,
18th February 1870.

J. H. COX.
Assistant to Chief Engineer.

No. 73.

No. 26. ORDER THREEON, 2nd April 1870, No. 913
IRRIGATION, No. 4.

the 26th and 29th miles of the Madras Irrigation and Canal Company's canal, and they authorize the works to be proceeded with.

(True Extract.)

to the Consulting Engineer for the Madras Irrigation and Canal Company.
do.
do.

Colonel, R. E.
Secretary to Government.
do.

Ed. A. S. Rodgers.

Consulting Engineer's Office
Irrigation and Canal Co.
Madras 28th February 1870.

No. 139
From

Colonel J. Carmichael R.E.
Consulting Engineer for I.C.C.

To
The Secretary to Government
Public Works Department.

Sir

I have the honor to submit an Estimate amounting to Rupees 13,300 and accompanied by a Drawing and the letter as per margin for protecting dry rubble walls called Nos. 2 and 3 in the 26th mile of the Kurnool and Buddah Canal, and one in the 29th mile called No. 4, with a lining of puddle covered by a layer of shingle, with the view of stopping the serious leakage which was mentioned in para 8 of my inspection report dated 30 November 1869.

2 The improvement proposed appears to me suitable for the object to be attained and the rates are reasonable namely:-

R.A.P. 1/2 Cubic yard
Puddle lining to walls. 1-1-1
Puddle filling in trench } -1-12-1
at bottom }
Shingle covering to puddle } -1-1-1
lining }
Masonry coping on roadway 2-8-1
Filling

From Agent R. A. P. 1/2
1/2 5-18-1/2
1/2 Plan
2/2 Estimates
5

Proceedings of the Madras Government, Public Works Department.
2nd April 1870.

puddling to be carried out. It would probably be sufficient to puddle the corners of No. 2 and 3 walls where they join on to the masonry walls, and in the same way only about half the length of No. 4 wall (26th mile) appears to require strengthening, but, of course, the proposed arrangement will make the effect of this mode of strengthening these walls quite sure.

2. The Consulting Engineer will find from the estimate that a puddle lining is intended for the 1st dry rubble wall in 26th mile; it is there entered as No. 2 dry rubble wall. No. 1 dry rubble wall being in 22nd mile.

3. I regret that your docket, No. 701, of 25th November 1869, is not correct my attention as I was of opinion that nothing further was wanted from me after my No. 496 of 24 November 1869. I would ask you to get the Consulting Engineer's sanction to begin the work now, as I have a large number of bullock men applying now for work, and these men may get elsewhere else wanted. The inside of canal at No. 2 dry rubble wall is quite dry, and the work could be started at once.

4. I also beg to draw your attention to the fact that the land required for the puddling earth, for which I applied by my No. 496 of 24 November 1869.

(Sic)

No. 216

Copied forwarded to the Agent and Manager with reference to the No. 43 of 24th March communicating the Consulting Engineer's No. 509 of 31st March reporting that the Consulting Engineer may be pressed for an early approval of this work. As a preliminary it will be well to obtain his immediate consent to the commencement of the work.

KURNOOL,
12th February 1870.

(Signed) J. H. COX.
Assistant to Chief Engineer.

No. 73

Copied forwarded to the Consulting Engineer with a request that early sanction be obtained for the execution of the proposed work.

MADRAS,
18th February 1870.

(Signed) C. A. RADHAM.
Deputy Agent and Manager.

ORDER THEREON, 2nd April 1870, No. 302.
IRRIGATION, No. 4.

The Government sanction the estimate of Rupees 13,300 for the erection of protecting walls to stop leakage in the 26th and 29th miles of the Madras Irrigation and Canal Company's canal, and they authorize the works to be proceeded with.
(True Extract.)

Colonel, R. E.

Secretary to Government.

To the Consulting Engineer for the Madras Irrigation and Canal Company.
do.
do.
do.

Exd. A. S. Rodgers.

Filling in bank under the puddle
 lining and on road way
 Excavating trench
 Contingencies 10 % Cent.

3 I beg leave to recommend the estimate
 for sanction and as the Company's Officers
 are most anxious to proceed with the work
 I solicit the early orders of Government.
 4 The closing paragraph of the letter
 from Hindry (Division) 1853-11 February
 1870 embodied in the "Gazette" 1875 is incomplete
 but does not I think affect the sanction
 for this estimate.

I have the honor to be,
 Sir,

Your most obedient servant

J. G. M. D. L. (Colonel)

J. G. M. D. L. (Colonel)

E. B.

P. W. Department.

N. 932

Proceedings of the Madras Government.

12 April 70.

the following

February 1870

not sanction

Rs 13,300 for

steeking

stage in

bridge of

above and

Canal,

the roads

th. if

funds to meet the cost are

available but this point

Col. Carpenter will furnish

information.

GA.

Let

P.

The Comd. Engr. to the Madras Govt.

Managers for

Sept 4/70

W. B.

Filling in bank under the puddle
 Lining and on road way
 Excavating trench
 Contingencies 10 P Cent.

I beg leave to recommend the

are most
 I solicit

from H.
 1870 emb.
 but does
 for this

[Faint handwritten notes and signatures]

Dated 25 Feb 1870
 for 2 years

Ames

Submits for sanction
 Plan & Estimate for
 protecting dry culverts
 under the 26 & 29 miles
 of irrigation

No 25

No 931-82 16/11/70

28 March 1870

[Signature]

P. W. Department

No 932

Proceedings of the Madras Government

Under date the 2nd April 70.

Read the following

From The Dy. Consulting Eng. H. C. No 139 of 23rd February 1879
 S. & C. Company

The Government sanction
 the estimate of Rs 13,300 for
 the erection of protecting
 walls to stop leakage in
 the 26th and 29th miles of
 the Madras Irrigation and
 Canal Company's Canal,
 and they authorize the works
 to be proceeded with. if
~~funds to meet the cost are~~
~~available~~ but this point
 Col. Carpenter will furnish
 information.

[Signature]

[Signature]

[Signature]

By

The Commr. Engrs. to the Govt.
 Manager for

Sept 4/70

[Signature]

1870
Cuc 840
Sect. of 1870 311 1213.

PUBLIC WORKS.

The Consulting Engineer
for the Madrid Irrigation
and Canal Company

Dated

at

7-12

G. O. 2^d April 1870 No. 1337

Nos 25-26

Protecting walls (see 2402)

Estimate of Rs 13,300 for the construction
of protecting walls to top of bridge
in the 26th & 29th miles of the
M. J. V. Canal, (see 2402)
with remarks.