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MADRAS RECORD OFFICE.

Government of Madras.

P. G. L. 103-125 DEPARTMENT.

G.O. No. 1209	Press
16-17	Mis.
Dated 1-5-	1871.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
1st May 1871.*

No 16 Read the following letter from the Consulting Engineer for the Madras Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 14th April 1871, No. 9.—

In Government Order No. 770, 11th March 1870, Government sanctioned an

3 Letters, in original, from Agent	estimate, amounting to Rupees 23,570,
2 Letters to Agent.	for re-constructing the Jootoor Anicut
3 Plans	in the 7th Section of the Company's

Main Canal, and for certain subsidiary works connected therewith. Two items in this estimate were Rupees 5,625 and Rupees 337-8-0 for constructing a diversion wall to prevent sand accumulating in front of the head-sluice and at the entrance to the regulating lock, and for constructing masonry heads to the ends of the canal banks, which it was feared would be subjected to considerable scour, and these works are shown on Central Office Drawing No. 79, dated November 1869

2. The Chief Engineer now proposes to dispense with the masonry heads to the banks, and to curtail very much the length of the diverting wall, and to alter its design. The arrangement is shown in Central Office Drawings Nos. 619 and 547 accompanying.

3. Regarding the masonry heads to ends of banks, the Chief Engineer proposes to omit them, because the floods of last year have not shown them to be necessary. The diversion wall of diminished extent now proposed is for the first 100 feet in length from where it starts at the anicut, 6 feet 6 inches high above the under-sluice cill, and for the remainder of its length, 50 feet more, it has an additional height of 3 feet.

4. The estimated cost is Rupees 900 against Rupees 5,962-8-0 formerly sanctioned, and effecting the very considerable saving of Rupees 5,062-8-0, which is doubtless the chief object in the changes proposed, and as no evils resulted from the omission to execute the works formerly sanctioned, except a large accumulation of sand above the head-works, which was noticed in my last inspection report, and a scour along the front of the anicut when the river is low, which the Chief Engineer now remarks on, both of which the wall as at present proposed will correct, I see no objection to the Chief Engineer's proposal, and recommend that the sanction of Government may be given to the execution of the work estimated

at Rupees 900, in substitution of the more extensive works sanctioned in Government Order, No 770, 11th March 1870, at a cost of Rupees 5,962-8-0. The correspondence as per margin accompanies

From Agent, No 19, 18th Jan 1871
To " " 303, 25th "
From " " 112, 9th Mar "
To " " 369, 13th "
From " " 164, 12th April "
Central Office Drawings Nos 79, 548, and 619

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, 18th January 1871, No 19.

Jootoor Anicut Training Wall

I HAVE the honour to forward copy of the Chief Engineer's letter, No 27, dated 5th instant, and to request sanction for Rupees 900 for construction of a training wall as per tracings herewith forwarded

and

*Proceedings of the Madras Government, Public Works Department,
1st May 1871*

Accompaniments

- 1 General plan showing head-works at Jootoor.
- 1 Plan showing longitudinal section in bed of river Caulee at Jootoor.
- 1 Do do do do

From the Chief Engineer, to the Agent and Manager of the Madras Irrigation and Canal Company, dated Kurnool, 5th January 1871, No 27

Jootoor Anicut Training Wall

I HAVE the honour to inform you that in the revised estimate for Jootoor anicut, sanctioned in G O, No 770, of 11th March 1870, the sum of Rupees 5,625 for masonry and Rupees 337-8-0 for excavation were sanctioned for a training wall, but this wall does not appear in the design, and I therefore enclose three tracings illustrating the work required, and ask you to apply to the Consulting Engineer for his consent to the carrying out thereof

The estimated cost of the work is 516 cubic yards excavation,	rs	A	P
including baling at 4 Annas	144	0	0
207 Cubic yards masonry at Rupees 3 1-0	724	8	0
Contingencies	31	8	0
Total	900	0	0

- 2 There is plenty of sanction still remaining on the anicut, and a sufficient amount was allowed in the July and October statements
- 3 At present the scour of the river, when the under-slucies are open and the river low, runs along the front of the anicut, and is damaging the foreshore
- 4 The wall will cause any such stream to come down the navigable channel, and it will there do good, and not harm, in clearing away silt. The action of the wall ceases when either the under-slucies are shut or the river higher than 3 feet below anicut crest

From the Consulting Engineer for the Madras Irrigation and Canal Company, to the Agent and Manager of the Madras Irrigation and Canal Company, dated 25th January 1871, No 303

I HAVE the honour to acknowledge your No 19, of the 18th instant, communicating letter from the Chief Engineer regarding "Jootoor Anicut Training Wall"

2 The Chief Engineer observes that in the revised estimate for the Jootoor anicut, sanctioned in G O, No 770, 11th March 1870, the sum of Rupees 5,625 + Rupees 337-8-0 was sanctioned for a training wall for which no design was provided, and he now proposes a construction to cost Rupees 900

3 I find, however, that the above-mentioned amounts were sanctioned for the training or diversion wall and two masonry heads to canal banks, all prominently noticed in my letter and Mr Ross' correspondence, printed with the G O quoted above, and all shown on Central Office Drawing No 79, dated November 1869, and signed by the Chief Engineer. The diversion wall is shown as 420 feet long, 10 feet high, and 4 feet wide

4 It is not very clear that the Chief Engineer's present proposal is, and I am not aware of any reason why the design already sanctioned should be departed from. Anyhow the sanction of Government to any change desired would be necessary, together with a full explanation of the reasons

5 In Drawing No. 549 now received, the training wall is shown somewhat as already sanctioned, but erased

6 Drawing No 547 purports to show a cross section of the wall taken on the line A A, which does not appear on any plan

7 The masonry heads to ends of canal banks are omitted altogether without any mention

*Proceedings of the Madras Government, Public Works Department,
1st May 1871.*

From the Executive Engineer, to the Chief Engineer, dated Koondam Division, 27th February 1871, No 142

Your No 109 of 13th instant, I have the honour to inform you that it is proposed to omit the masonry heads to the banks, because the floods of last year have not shown them to be necessary, but they can at any time be added

2 What I now ask leave to build will, I believe, be effective and cannot be delayed, and I beg that sanction may be given as soon as possible.

3 With reference to paragraph 5 of Consulting Engineer's letter, I must explain that if the line A A was omitted to be shown on the longitudinal section sent to Madras, it was a Draughtsman's omission, as it appears on my copies.

No 343.

COPY forwarded to the Agent and Manager, with reference to the Consulting Engineer's No 303, of 25th January, received with his No 124, of 3rd February. The wall as proposed is shown in Mr. Browning's longitudinal section of it in Sheet No. 2, Central Office Drawing No 547. It starts from the anicut body wall close to the under-slucies, and continues with its crest 6 feet 6 inches above the under-slucie sill (or 3 feet 6 inches above head-slucie sill) for 100 feet, with rock for the over-fall to impinge upon. It then rises 2 feet, and is continued till well imbedded in the mass of spoil. No masonry heads to this spoil bank will be needed

By order,

KURNOOL,
5th March 1871.

(Signed) E. D. MATHEWS,
Asst. to Chief Engineer

No 12.

FORWARDED to the Consulting Engineer, with reference to his No 303, of 25th January 1871
MADRAS,
9th March 1871.

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

From the Consulting Engineer for the Madras Irrigation and Canal Company, to the Agent and Manager of the Madras Irrigation and Canal Company, dated 13th March 1871, No 369

WITH reference to the Chief Engineer's No 3-3, of the 6th instant, and Mr Browning's letter No 142, of the 27th ultimo, communicated with your endorsement, No 112, of the 9th instant, I have the honour to return herewith all the drawings received with your No 19, of the 18th January 1870, in order that the training wall may be shown on the plan, and Drawings Nos 547 and 549 be made to agree, and that the training wall shown in Central Office Drawing No 79 of 1869, may be omitted in the new plan

From Mr A BROWNING, to the Assistant to Chief Engineer of the Madras Irrigation and Canal Company, dated Nundial, 27th March 1871, No 195.

Jootoor Training Wall

REFERRING to your No 171, of the 20th instant, I have the honour to inform you that when I sent in the papers with my letter of the 27th December last, I intended it to be understood that the red line showed the line of Section D E

2 It was also the line of proposed training wall, but the longitudinal section showed that it was only intended the wall should be built for a length of 150 feet, and not the whole length of the section taken

3 In order to avoid further misunderstanding I have prepared a new plan, which I herewith enclose, showing by a faint red line the course of the section taken, and showing by a strong red line the position of the proposed wall. I may add that the line now adopted is better than that formerly proposed and shown in green on Central Office Plan No. 549, as it will not be so exposed to the scour of the river

*dispense with the masonry heads to the banks,
and*

Proceedings of the Madras Government, Public Works Department
1st May 1871.

No 448

Copy forwarded to the Agent and Manager, with reference to his No 255, of 16th instant
KURNOOL,
30th March 1871.
(Signed) E. D. MATHEWS,
Asst to Chief Engineer

- 2 Longitudinal Sections, Nos 547 and 548
- 1 General Plan, No 619
- 1 " " 549 cancelled by No 619

No 164

Copy forwarded to the Consulting Engineer, with reference to his No 369, dated 13th March 1871, together with the drawings (four in number) which accompanied the above letter
MADRAS,
12th April 1871
(Signed) F. H. HENSLOWE,
Agent and Manager.

No. 17. ORDER THEREON, 1st May 1871, No 1,209

IRRIGATION, No. 1.

Amount originally provided for a diversion wall and for masonry heads to ends of canal banks	Rs 5,962
Estimated cost of modified arrangements	900
	5,062

As the modified arrangements proposed in this letter in connection with the Jootoor Anicut Works in the 7th Section of the Madras Irrigation and Canal Company's Canal will effect a saving of Rupees 5,062 on the estimate of Rupees 23,570 sanctioned in G. O., No. 770, dated 11th March 1870, and

will not it is believed affect the stability of the works, His Excellency the Governor in Council sanctions those arrangements which will reduce the estimate in question to Rupees 18,508

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Chief Engineer for Irrigation

Agent & Manager for
the S. H. Co.

Exd E. C. Shunker

Consulting Engineer's Office
Irrigation and Canal Co.
Madras 14th April 1871

No. 9

From:

Colonel J. Carpendale R.E.

Consulting Engineer S.H.C.C.

To: Colonel C. A. An R.E.

Secretary to Government P.W.D.

On Government Order No. 770-11

March 1870 Government sanctioned an estimate

amounting to Rupees 23,570 for reconstructing

the Jootoor Anicut in the 7th Section of the Com-

pany's Main Canal and for certain subsidiary

works connected therewith. Two items in this

estimate were Rupees 5,625 and Rupees 337-8-

for constructing a diversion wall to prevent

sand accumulating in front of the Head

Stairs and at the entrance to the regulating

lock and for constructing masonry heads to

the ends of the Canal banks which it was

feared would be subjected to considerable

scour, and these works are shown on

Central Office Drawing No. 779 dated

November 1869.

2. The Chief Engineer now proposes to

dispense with the masonry heads to the banks,

and

and to curtail very much the length of the diverting wall and to alter its design. The arrangement is shown in Central Office Drawings 548-619 and 547 accompanying.

3 Regarding the masonry heads to ends of banks, the Chief Engineer proposes to omit them because the floods of last year have not shown them to be necessary. The diversion wall of diminished extent now proposed is for the first 100 feet in length from where it starts at the Aicut, 6 feet 6" high above the under sluice sill, and for the remainder of its length, 58 feet more, it has an additional height of three feet.

4 The estimated cost is Rupees 900 against 5962-8- formerly sanctioned, and effecting the very considerable saving of Rupees 5062-8- which is doubtless the chief object in the changes proposed; and as no evils resulted from the omission to execute the works formerly sanctioned except a large accumulation of sand above the head works which was noticed in my last inspection report, and a scour along the front of the Aicut when the river is low which the Chief Engineer now remarks on, both of which the wall as at present proposed will correct, I see no objection to the Chief Engineer's

Engineers' proposal, and recommend that the sanction of Government may be given to the execution of the work estimated at Rupees 900 in substitution of the more extensive works sanctioned in Government Order No. 740-11 March 1870 at a cost of Rupees 5962-8-.

From Agent 25.19.15 Jan'y.
To 303-25-177.
From 112-9 March
To 569-13-
From 184-12 April
Central Office Drawings
No 548-619-

The correspondence as per margin accompanies.

I have the honor to be,
Sir,

Your most obedient servant,

Respectfully,
Colonel R.E.
Consulting Engineer I.V.C.C.

1209 P 11 Dept

Proceedings of the Madras Legislative Council
Under date the 1st April 1871
Read the following

From the Civil Engineer H. B. / H. E. No 9 of 14 April 1871

As the modified
arrangements proposed
in this letter in con-
nection with the Jooia
ancient works in the
seventh section of the

Madras Irrigation
and Canal Company's
Canal will effect a
saving of Rs 5062
on the estimate of Rs
23570 sanctioned in
G O No 770 dated

Amount originally provided
for a diversion wall and
for masonry leads to
ends of Canal banks } Rs 5962
Estimated cost of
modified arrangements } 900
Rs 5062

Re 11 March 1871

Public Works Department
1209 P 11 Dept

to the Hon. Secy to Govt
of Madras
for the Secretary to Govt
of Madras

Letter 14
1209 P 11 Dept
1871

Re 11 March 1871
for the Hon. Secy to Govt
of Madras
for the Secretary to Govt
of Madras

1209 P 11 Dept

620447, Q. 2121

Great Britain
 To the Honble Secy of State
 The Congress House
 with right respects
 .. Agent & Manager for the
 Dec 23/77

Oct 11 1871 Madrid.

. PUBLIC WORKS.

The Chief Engineer for Design

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Nos. 1617

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