

(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.	1473	Press
B.P. No.		Mis.
518.519.		
Dated	26. 5.	1875.

Not to be folded or roughly handled

No. 230

North Arcot,
DISTRICT ENGINEER'S OFFICE,

Madras 21st April 1875.

From

The DISTRICT ENGINEER,
NORTH ARCOT.

To

The Chief Engineer,
For Irrigation.
Madras.

Sir,

Enclosures. 8.

1. Plans
Detailed estimates
2. Abstract estimates
Specifications.

I have the honour to forward herewith estimates amounting to Rupees 1,25,000 and 60,000 respectively, with plans and specifications, for the reconstruction of the Aricuts over the Palar and Poincy rivers, injured by the floods of October last.

2. The plans show the alterations proposed from the old sections; these have been made in accordance with the instructions contained in your Note printed with O. G. No 239 of 27th January 1875, and verbal ones subsequently given.

3. I should mention that there is

is a little doubt as to the actual depth of the old foundation walls, as they are shown differently on different plans, but it is believed that they are as drawn.

4. The work will be done departmentally, the materials being supplied on contract by a number of suppliers. Tenders were invited for the supply, and the number of offers received was very great, so that I do not think any advantage would have been gained by any other mode of proceeding. The rates entered in the estimate are not higher than is proper, with due regard to the actual prices of materials, and the circumstances under which the work has to be executed.

5. Some improvements are required to the head sluices of the Palat Anicut, and estimates, which I had intended to send up with those now forwarded, had been prepared, but some alterations are necessary, and I do not wish to delay the submission of the reconstruction estimates on their

their account. They will accordingly be sent up hereafter, they are entirely independent of the work of reconstruction, and will come to about Rupees 16,000. These alterations will include the provision of a new head sluice for the Chukkramalloor channel, and the present head will become an integral part of the Anicut, so that the raising of the wall over this portion, mentioned in your Note above quoted, will be unnecessary, but the wall will have to be lowered from its present level to that of the remainder of the anicut.

6. I request that the plans and estimates may be returned when no longer required.

I have the honour to be,
Sir,

Your Most Obedt Servant,
R. B. P. J. Captain R.E.,
District Engineer,
North Arcot

W 483.

Vote by the Chief Engineer for Irrigation

The estimates submitted by the District Engineer, North Arcot, for the restoration of the damaged portions of the Palar and Poring Aunents amount to, for the.

Palar Aunent	Rs. 1,35,000
Poring Aunent	Rs. 6,000

* including the addition made in 1821 No. 326 of 21 April

The only alterations in the design of the Palar Aunent are, it will be seen, an increase to the dimensions of the outer or lower rough stone apron, the width of which it is proposed to double, the quantity of stone being increased in the proportion of 7 to 3, and the placing of its surface 2 feet below the masonry apron - 2^{ndly} the change of alignment, in order to avoid the debris of the old work, which would make it difficult to put down the foundations of the crest and retaining walls - 3rd the addition of a layer of concrete under the rubble masonry apron, & 4th the addition of groynes above and below



W 483-5 May 1875

O. E. No. 1779

The District Engineer,
North Arcot.

The Chief Engineer
for Irrigation
at
Dated 21 April 1875.
Received 23

No. 230

Enclosure 8

Forwarded estimates

amounting to Rs. 1,41,000

for the reconstruction

of the Aunents over the

Palar & Poring rivers

injured by the floods

of October last

W 483

the work to check lateral currents.

2. It is possible that the rough stone apron may have ^{to be} still further extended, and this will be considered when the information referred to in para 11 of the memorandum printed in Public Works Proceedings 16th April 1875 N^o 1070 A has been given.

3. It will be seen that the estimate for the restoration has been reduced from the amount Rupees 140,700 mentioned in the above memorandum to Rupees 135,000, and as Ensign Smither will, under the arrangements made in that GO, be able to look thoroughly after all the details of the work, there is good reason to hope that the restoration will be carried out carefully and economically.

4. Instructions were given in this office long since to look up the estimates on which the Ancient was built, in order that a comparison of rates might be made, but as yet the papers have not

not been traced; as it is not desirable that the works should go on with without any formal sanction, it has been thought better not to delay the submission of the estimate to Government. When the original estimate may be found any enquiry that may seem necessary will be made. The length of wire

to be reconstructed is 1093 feet. The estimate however provides for extending the outer apron of the uninjured portion of the wire - loose stone C^{ts} 47685
C^{ts} 1766

Reserved stone " 3000
Total C. ^{ts} 4766

the value of which is Rupees 8,340; deducting this, the estimated cost of the restoration is Rupees 110 per foot nearly.

5. The modifications of the former section of the Point Ancient are shown

on the plan and are

1st the enlargement of the outer apron from 12 to 24 feet, placing its surface $1\frac{1}{2}$ feet below the level of the masonry apron.

2nd putting a foot of concrete under the rubble masonry apron.

3rd adding a foot to the thickness of the crest wall, which was before rather slight.

4th adding groynes above and below the Anicut to check lateral scour.

6. Similar information to that to be furnished for the Palar should be given for the Pongy, and it may then be settled whether the outer rough stone apron as designed will suffice.

7. The rates are similar to those entered in the Palar Anicut estimate, except that rough stone in aprons in the latter is entered, under the correction made in the District Engineer's letter of the 30th ultimo, at $2\frac{1}{2}$ Rupees instead of $1\frac{3}{4}$ Rupees the cubic yard, and the propriety of this is very doubtful.

side P.W. Page. No. 1070A
dated 10th April 1875.
Memo: 1070A

The

8. The length of Anicut to be restored is, as shown on the plan, 623 feet, and when, as indicated in the note on the plan the alignment is shifted 12 feet higher up the river to avoid debris of the old work, it will be slightly longer.

The cost as estimated is about 90 Rupees a foot run.

9. Burnt clay should be mixed with the lime throughout the masonry, a larger proportion being allowed for the work below the bed than for the superstructure.

Wm. Lumsden Lt. Col. R.E.

Ootacamund
5th May 1875

Chief Engr. for Mysore

P. H. Rept.

Proceedings of the Madras Government
Read the following

From the Chief Engineer } CH. No. 483 dt 5 May 175
for Irrigation }
- G.O. No. 1473 of 26th May 175-

The estimates
amounting to Rs. 125,000
and Rs. 20,000 for the restoration
of the Palar and Poring
Ancients respectively, which
were extensively damaged
by the floods of October 175
are sanctioned.

2. The determination
of a proper and safe
width for the outer rough
stone aprons of these weirs
should be made as soon

GO 16/11/75 No. 1473

No. 1875 dt 11/11/75
CH. No. 483
G.O. No. 2187

From
The Chief Engineer
for Irrigation
to The Secretary to
Government
P.W.D.

Dated 5th May 175
Received 12th May 175

Enclosure 9:
No. 1473. 26-5-75

Letter submitting
estimate for the recon-
struction of the Palar
and Poring Ancients.

Submitted for sanction to the
Colonial Secretary

Amount of estimate Rs. 125,000
Estimated cost of work Rs. 20,000
Total Rs. 145,000
125,000 for Palar
20,000 for Poring
145,000 for both

CH. No. 483 dt 5 May 175
G.O. No. 1473 of 26th May 175

...
 3. ... that an ...
 of experience has been
 placed in charge of these
 2 works and has been
 relieved from all other duties.
 The Government hope that
 the operations will be
 carried out promptly, in a
 thoroughly satisfactory
 manner and as economi-
 cally as may be consistent
 with the public interest.

MM.

14-58-574
 H.D.E. with Quot with 88
 C. M. W. A. C. v.
 Chf. Insp. for Dev.
 X 2 sent by ...
 14-58-574

3/87
 Govt. of India
 PUBLIC WORKS.
 The Secy. to Govt.
 N. West
 26 May 1873
 No. 578-174

Paler and Poring District.
 The estimates amounting
 to Rs. 135,000 and 60,000
 for the restoration of the
 ——— respectively, which
 were extensively damaged
 by the floods of October
 1874, are sanctioned.

50 Dispd - 12-6-78