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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No.	1597	Press. / Mis.

Dated 29. 6. 1878 197 .

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Archives 1—10,006—19-4-79.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

11th June 1878, No. 483 I.

Irrigation Account.

Read the following paper :—

No. 36. Endorsement of the Chief Engineer for Irrigation, dated Ootacamund, 7th June 1878, No. 160 I.

From H. UNWIN, Esq., District Engineer, Cuddapah, to the Chief Engineer for Irrigation, dated Cuddapah, 11th May 1878, No. 352.

I HAVE the honor to forward herewith a revised estimate for the construction of a flood embankment on the south or right bank of the Cheyair river at the crossing of the Madras Railway.

One revised estimate.
One comparative statement.
One abstract estimate.

2. The original estimate was sanctioned in G.O., 1st February 1877, No. 328, for Rupees 22,316, but certain questions on rates and alignment were left unsettled.

3. These questions have virtually settled themselves, as the work has been nearly completed by famine labor under the superintendence of the Resident Engineer of the Madras Railway. The length of the new alignment which terminates on the east face of the hill is 1 mile 1,153 yards. The Agraharam channel has been diverted and a small cut has been made through the hill to supply it with water. The head-sluice for the three other channels is in hand and nearly completed.

4. The original estimate provided for removal of sand from site of new bund which was to be composed of good soil only and very carefully rammed in layers; it was doubtful where good soil could be obtained, and hence the high rate was quoted as the ordinary value of the work.

5. The work has not been carried out according to the original estimate, and in the revised estimate a very different class of work is provided for. The body of the bund has been made of sand coated on river side with a 3 feet layer of good loam on which is spread 3 feet of gravel backing for the stone revetment $1\frac{1}{2}$ feet thick. The top of bund and rear-slope is also coated with 3 feet of gravel.

6. The rate for revetment is kept at Rupees 1-4-0; the greater part of the stone come from north side of river, and the Range Officer does not consider that at ordinary rates it could be done for less.

7. The total amount of revised estimate is Rupees 20,480, being Rupees 1,836 less than the original.

8. Enclosed is a statement showing quantity and value of work (at ordinary rates) now remaining to be done to complete the embankment; 446 yards require raising 8 feet and 814 yards 2 feet only with the necessary backing and revetment, the rest of the line is practically complete.

9. If this is not done at once there is danger of a breach during a high flood and much damage would be done to the work.

10. I have therefore the honor to request your sanction to the revised estimate and permission to recommence the work departmentally in order to complete it forthwith.

11. From the Repair Grant Ordinary Agricultural, river embankments, I can allot the necessary funds.

12. Plans and sections of the work as executed are in a forward state; but, as time is an object, I trust the sanction may not be delayed.

13. The work on the north bank is not so forward, and it would be quite impossible to complete it before this flood season; the revised estimates for it will be shortly submitted.

SUBMITTED to Government.

The revised estimate for the Cheyair right embankment above the Railway bridge amounts to Rupees 20,480, and the estimate provisionally sanctioned in G.O., No. 328, 1st February 1877, was for Rupees 22,316.

The District Engineer explains that the question as to the rates of the original estimate have been superseded by the execution of the work in a different manner, for which no reason is explicitly stated, but may perhaps be assumed to be that when famine labor had to be employed the work was done so as to suit the means available. There is some mistake in paragraph 5 of the District Engineer's letter as to the thickness of the gravel. Three feet of gravel backing would have been an extraordinary thickness and the estimate shows 10,791 cubic yards of gravel and 9,003 cubic yards of new stone revetment. The revetment is mentioned as $1\frac{1}{2}$ feet thick and there was some old stone, so probably the backing was $1\frac{1}{2}$ feet thick. Three feet of gravel as a coating to the top and rear slope of the flood bank would be still more extraordinary. Probably three inches are intended. The estimate provides 695 cubic yards of gravel on this account.

2. An enclosure of the District Engineer's letter shows that the value of the work remaining to be completed was on the cessation of famine work Rs. 2,943-7-11. As all the benefits to the Railway and the cultivation from the large expenditure which has been incurred would be lost were the flood bank not completed, the District Engineer was on the 22nd ultimo told to complete the work, including the head-sluice sanctioned in G.O., No. 142 I, of the 7th July 1877, forthwith, and to report date of completion in due course. The necessary funds will have to be appropriated from the District Grant for Minor New Works as the Reserve is nearly exhausted.

3. The plans and estimates referred to in paragraph 12 of the District Engineer's letter should be sent in as soon as possible.

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

No. 37. ORDER THEREON, 11th June 1878, No. 483 I.

THE revised estimate of Rupees 20,480 for the Cheyair right embankment above the Railway is sanctioned, and this amount will be substituted for that of Rupees 22,316, shown in G.O., No. 328, of the 1st February 1877.

2. The arrangements made by the Chief Engineer for Irrigation for the completion of the work are approved.

3. The District Engineer will take care that the flood bank is carefully watched when the river is in fresh until its stability at all points is assured.

4. This sanction is registered as No. 86 I of 1878-79.

(True Extract.)

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

(True Copy.)

Major, R.E.,
Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the District Engineer, Cuddapah.
" Collector of Cuddapah.
" Consulting Engineer for Railways.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

I. T. D. Ryan.
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Revenue Boy's Depart

No 2782

IRRIGATION.
ACCOUNT.

Govt. of [1878] Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
CUDDAPAH.
&c., &c., &c.

Dated June 11th,

Issued

Recd. — 29

Encl.

G. O., 11th June 1878, No. 483 I.

JUNE.

Nos. 36-37.

No 1577
Communicated
to the Board of Revenue

29 June 1878

Cheyair Right Embankment above the Railway.—The revised estimate of Rupees 20,480 for the —, sanctioned with remarks.

W. Marden

11 Feb Recd from Chief Engr