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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	2788	Press.
B.P. No.		Mis.
Dated	16-5-1877	197

Not to be folded or roughly handled

Read the following papers:—

No. 605. From Colonel A. S. MOBERLY, R.E., District Engineer, Cuddapah, to the Chief Engineer for Irrigation, Public Works Department, dated Cuddapah, 20th March 1877, No. 2,941.

With reference to G.O., No. 370, dated 3rd February last, I have the honor to submit for approval and sanction a survey, two sections, report, specification, and abstract estimate, amounting to Rupees 18,070, for constructing from Famine Relief Work an embankment along the right bank of the Paupagnee river extending from the village of Petha Putha to the Madras Railway, and to state that the necessity of work is explained in the report.

No. 174—W.

No. 605-A. *Note by the Chief Engineer for Irrigation.*

In G.O., No. 370, 3rd February 1877, it is stated, "Paupagnee river embankment is already being carried out." With reference to this the District Engineer says this estimate, &c., are forwarded.

The embankment proposed is from the railway at between the 16th and 17th telegraph post, of 175th mile to the existing protective bank near the village of Petha Putha.

The length is 3,440 yards. The top width of bank to be 6 feet with slopes of 2 to 1, and the top level to be (according to longitudinal section) 5 feet above M.F.L.

The plan shows the line for the embankment as nearly direct between its two extreme points, and for most part of its length at a considerable distance (from $\frac{1}{4}$ mile) from the existing edge of the river, but for about 150 yards it is apparently to be taken as closely as possible to the edge where there has been, and from the plan would appear still to be, severe erosion during floods. It will probably be better to move it at this place back sufficiently to allow for any further cutting back of the river margin likely to occur before that is efficiently protected by napei planting or the set has been diverted from it. The estimate also provides for carrying the Bellary road over the embankment with gradients of 1 in 40. The place where the road crosses is shown on the longitudinal section, but not on the plan. According to the former it is approximately at 1,250 yards from the railway, which distance plotted on the plan comes where the embankment as proposed runs close to the river margin, and there would be no room for the ramp or approach on the river side, which according to the specification and section is to be 580 feet in length. This also points to the necessity for moving the embankment back at this place. The estimate provides for carrying the road over the embankment with gradients of 1 in 40; but 1 in 30 will be sufficiently easy and will save about Rupees 330, thus—

Proceedings of the Madras Government, Public Works Department,
25th April 1877. No. 1,420.

Revised estimate at rates in originals and with same breadths and thicknesses of metalling and gravelling.

Quantity.	Work.	Rate.	Amount.
C. YDS.		RS. A. P.	RS. A. P.
9,605	Earthwork	0 1 2	700 5 10
9,605	Tamping	0 0 3	150 1 3
371	Metalling	2 1 0	765 3 0
49½	Gravelling	1 14 0	92 13 0
	Culvert (say)		500 0 0
	Contingencies, 5 per cent.		2,208 7 1
			111 8 11
	Original estimate		2,320 0 0
			2,650 0 0
	Saving		330 0 0

The metalling proposed is only 5 yards wide and 9 inches thick covered by 1 inch of gravel, leaving 1 yard wide along edge of road with unprotected surface, which in high embankment is not wise. The soil in estimate is said to be "loamy and clay," so merely gravelling the unmetalled edges might prevent channelling.

The proposed protective embankment will cross three river channels for which it is said plans for head sluices are being prepared, in the meantime Rupees 5,600 are entered as their probable cost; the positions of the channels are shown on the longitudinal section, but not on the plan.

The length of the embankment will be 1 mile 7 furlongs and 140 yards, and its cost exclusive of head sluices is Rs. 9,320 } exclusive of "Reforming Bellary Road,"
do. inclusive of do. " 15,420 } Rs. 2,320,
or Rupees 7,889 a mile.

The chief value of this flood bank will be in preventing danger to the Railway and also to the Madras Irrigation and Canal Company's Canal.

FORT ST. GEORGE,
2nd April 1877.

(Signed) G. T. WALCH,
Ag. Deputy Chief Engr. for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 606. ORDER THEREON, 25th April 1877, No. 1,420.

IRRIGATION, No. 60-A.

THE particulars of the Paupagnée embankment, the execution of which as a Railway Famine Relief Work was approved in G.O., 3rd February 1877, No. 370, are given in the foregoing papers, and the estimate is sanctioned as follows:—

Proceedings of the Madras Government, Public Works Department,
25th April 1877. No. 1,420.

Ordinary Agricultural.
River Embankments.
Original Works.
Fund.—Famine Relief.

Paupagnée right embankment above railway.

Amount of Estimate, Rupees 17,740.

The work is being carried out by the Public Works Department with the assistance of the Railway Officers.

2. It is observed that estimates for three head sluices in the line of this embankment have to be submitted, and as without these the flood bank will not be safe, no avoidable delay should be permitted.

3. The remarks of the Chief Engineer for Irrigation with respect to the necessity of setting back the line of embankment in places and with reference to other points should receive attention.

(True Extract.)

W. H. H. H.

Lieut.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

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

Erd. T.D. Ryan.
Spare Copies

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Govt. of (1877) Madras.

PUBLIC WORKS.

To

THE CHIEF ENGINEER FOR IRRIGATION,

Secy Secy Secy

Dated April 25th.

Issued

Recd. 12/5/77

Encl.

G. O., 25th April 1877, No. 1,420.

APRIL

Nos. 605-606.

2788

Paupagne River Embankment, Cuddalore District.—The estimate of Rupees 17,100 for the —, sanctioned with remarks.

The Board of Revenue 16 May 1877