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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	3952.	Press.
B.P. No.		Mis.
Dated	16. 7. 1877.	197 .

Not to be folded or roughly handled.

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3952

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

7th July 1877, No. 134 I.

Irrigation.
Account.

Read the following papers:—

No. 75 I.

No. 15. *Note by the Chief Engineer for Irrigation.*

THE District Engineer, Kurnool, forwards, with his letter marginally noted, an estimate in connection with the Narasapollam Tank, situated in the Markapoor Taluq, Cumbum Range.

2. The nature of the work proposed for execution and the heads of account to which it is chargeable are as follow:—

ORDINARY AGRICULTURAL.

IRRIGATION.

Original Works.

	RS.
Extending and converting the natural escape into rough stone escape	200
Constructing an irrigation sluice	275
New stone revetment to the bund with gravel backing	1,234

Repairs.

Raising and repairing the bund and repacking the revetment	236
Total	1,945

3. The following particulars of this tank are recorded:—

Ayacut area	Acres	81
Assessment	Rupees	834
Average revenue	"	603
Highest do.	"	1,027
Expenditure during the previous four years	"	695

The area of the catchment basin is 11.5 square miles; the maximum flood supply is calculated at 3,435 cubic feet per second, for discharging which as surplus there is a natural escape 182 feet in length. It is proposed to extend the escape 179 feet and to convert it into a rough stone escape, making the aggregate length available for the surplus discharge 361 feet.

The bund of this tank is low, and the revetment from the site of the proposed sluice is in very bad condition and needs to be reconstructed.

The tank is provided with two irrigation sluices, but one of them is in ruins; it is therefore proposed to build another in its stead.

The estimate provides for raising and repairing the bund, repacking the revetment where required, and raising it with new stone, converting the natural escape into a rough stone escape and extending it, and for constructing an irrigation sluice. The

necessity for raising the revetment is by no means clear. The tank appears to have done very well with the old revetment, and with the enlarged escape the water will but seldom rise much above F.T.L. The item for new revetment has, therefore, been disallowed, viz. :—

	RS.	A.	P.
1,547½ Cubic yards new stone	967	3	0
773½ Do. gravel backing	193	4	9
Sundries	49	8	3
	1,210	0	0

This tank is believed to be the terminal one of a series of tanks, and the District Engineer should, if this is the case, report on the state of the high lying tanks, especially with regard to the efficiency of their escapes. His attention is directed to Circular No. 63. Rupees 695 were spent on this tank in 1875-76, part of it on earth-work which will now have to be removed to form the escape; the necessity for considering all the requirements of tanks before spending money on their repairs has been pointed out in Circular No. 20, paragraph 4. The length of weir proposed will require a depth of about 2 feet 4 inches going over it to discharge the full estimated quantity of surplus, instead of only 2 feet as stated in the report where the co-efficient used (.628) is too large for an escape of this kind; but this extra height of the M.W.L. may be safely allowed, as the proposed top of bank will still be 2 feet 8 inches above it.

The tunnel of the sluice had better be 2 feet 6 inches high, any extra cost due to which alteration may well be met by a reduction in the section of the front face wall, which is unnecessarily thick. The face wall should be moved further to the front as shown in pencil, and the rear wings should be of the same form as the front wings and 6 inches high at the ends.

The cross sections show that where most raising has to be done it is proposed to make the new work 3 feet wide at top and in other places from 6 to 9 feet. These abrupt variations are not necessary or desirable. The bund may be made 4½ feet wide at top throughout a width suited to the class of tank.

The estimate as reduced is recommended for sanction.

FORT ST. GEORGE,
28th June 1877.

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

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 16.

ORDER THEREON, 7th July 1877, No. 134 I.

THE following estimate from the Cumbum Range forwarded by the District Engineer, Kurnool, is sanctioned :—

Head of Service.—Irrigation.

NARASAPOLLIAM TANK.

Group or Project.	Fund and Main-head.	Class.	Name of Tank.	Particulars of Work.	Amount.
...	Ordinary Agricultural Irrigation.	Original Works.	Narasapolliam Tank.	1. Escape	200
		Repairs		2. Irrigation sluice.	275
				3. Repairing bund.	260
				Total ...	735

To be carried out by the Public Works Department Officer in charge Cumbum Range.

2. This sanction has been registered as No. 81 I of 1877-78.

(True Extract.)

Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the District Engineer, Kurnool.
" Collector of do.
Chief Engineer for Irrigation.
Examiner of Public Works Accounts.
Revenue Department.

E. C. Shunker.

Copies

Narayan Department
No 3262

IRRIGATION
ACCOUNT.

Govt. of 1877: Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER.

KURNOOL.

&c., &c., &c.

Dated July 7th.

Issued.

Recd.

14 July

Encl.

G. O., 7th July 1877, No. 134 J.

JULY.

Nos. 15-16.

Narasimham Tank, Karnool District.
The estimate of Rupees 735 for certain
works to the sanctioned.

No 3282
Comd. to the
Board of Revenue
16 July 1877

20 July 1877: No. 17 July 1877