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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	3797	Press.
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Not to be folded or roughly handled

3797
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

22nd June 1877, No. 96 L.

Irrigation.
Account.

Read the following paper:—

No. 51 L.

No. 83. *Note by the Chief Engineer for Irrigation.*

The Superintending Engineer, Chingleput, with his letter marginally noted, submits an estimate for re-building a sluice in the Govindavady large tank situated in the Conjeveram Taluq, Chingleput Range.

2. In G.O., No. 2,435, dated 13th September 1876, a sum of Rupees 185 was sanctioned for the repairs of five sluices in the Govindavady large tank, out of which amount it would appear Rupees 97 were intended for the repairs of the sluice, for replacing which the estimate is now submitted; but on uncovering the sluice it has been found beyond repair.

Of the estimate* now submitted, Rupees 110-4-0 are for the earthwork of opening and repairing the bank, and excavating the foundation, leaving 635 Rupees as the estimated cost of the sluice itself, a large amount compared with the duty to be performed by the work.

The design is for a sluice suited to a bank with top 6 feet above M.W.L., but in paragraph 3 of the Note with G.O., 2,435, 13th September 1876, it is pointed out that the top of the bank of this tank need not be more than 3 feet above M.W.L.; if made to suit such a bank, the length of the tunnel would be 12 feet less than that now provided, effecting a saving of some Rupees 75. It is, however, probable that the width of the bund as affecting the length of the sluice-tunnel is in this case unaffected by the height of the top above M.W.L. The thickness of the arch, too, need not be $2\frac{1}{2}$ bricks; $1\frac{1}{2}$ would be ample, which might be covered with concrete of $4\frac{1}{2}$ inches thick, and Rupees 20 would be thus saved on the reduced length† of barrel. By the

+ To 24 feet.
substitution of concrete for brick-work in the bottom 1 foot 6 inches of the foundations a further saving of some Rupees 15 might be effected. At the rates given in the estimate then an efficient sluice might be built for somewhat less than the amount of the estimate. It appears to be desirable to allow two if not three holes in the plug-stone; the irrigation can then be carried on longer without opening the lower vent, and as regulation by the plugs is easy, waste of water may be the more readily prevented. The plug would be the better for having a larger frustum, say 12 inches in length, top diameter $5\frac{3}{4}$ inches, bottom 3 inches. Plugs should never, as shown in the drawing, be of the full diameter of the hole in the plug-stone. The Superintending Engineer should have explained the reason for adopting a height of 6 feet instead of 3 feet above M.W.L. for the top of the bund.

The Superintending Engineer has, owing to the urgency of the case, the requirements of the sluice not having been discovered until the repairs came to be commenced,

ordered the work to be begun before forwarding the estimate, and the work is now probably far advanced. Under these circumstances, the estimate of Rs. 745 is recommended for sanction in lieu of Rupees 97, included in item 3 of sanction* for the tank in G.O., No. 2,435, 13th September 1876 (see also G.O., No. 148, 18th January 1877).

FORT ST. GEORGE,
12th 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. 84.

ORDER THEREON, 22nd June 1877, No. 96 I.

The following revised estimate from the No. 3 or Chingleput Range, forwarded by the Superintending Engineer, Chingleput, is sanctioned:—

Govindavady Large Tank.

System.—Palar Anicut System.

Fund.—Revenue.

Class.—Maintenance and Repairs.

Main-head.—(2.) Main Canals and Branches.

Sub-head.—N. Tanks and Reservoirs.

Particulars of Work.—Repairing four and reconstructing one Irrigation sluice.

Amount.—Rupees 833.

2. This sanction has been registered as No. 70 I of 1877-78, and cancels the previous sanction in G.O., No. 2,435, dated 13th September 1876, for the item (3) of sluice repairs.

(True Extract.)

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

To the Superintending Engineer, Chingleput.
" Collector of
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. A. F. Goodall

Spare Copies

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2

Revenue Department

N^o 3162

IRRIGATION
ACCOUNT.

Govt. of {1877} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
CHINGLEPUT,
&c. &c. &c.

Dated June 22nd.

Issued

Dis. M. A.

Recd.

6 July

Encl.

G. O., 22nd June 1877, No. 96 I.

JUNE.

Nos. 83-84.

N^o 3794
Comm. to the
Board of Revenue

6 July 77

Govindavady Large Tank, Chingleput
District.—The revised estimate of Rupees
833 for repairing four and reconstructing
one Irrigation sluice to the —, sanctioned.

9.5.77 # 429 Revenue 1.7.77