

- (1) Number of pages 4.
(2) Date of repair 25.2.70.
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.	1613	Press
B.P. No.		Mis.
Dated	11-7-1876	496

Not to be folded or roughly handled

Read the following :—

No. 71 W.

No. 311. *Note by the Chief Engineer for Irrigation.*

THE Officiating District Engineer, Tinnevely, forwards, with his letter marginally noted, an estimate in connection with the Vellur Tank situated in the Tenkarai Taluq, Tinnevely 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.

Improving and extending the existing calingulah and converting it into a weir. Original Works	Rs. 5,315
Rebuilding a ruined calingulah and converting it into a weir. Repairs	4,620
Improving the Kunmarukal calingulah and converting it into a weir. Repairs	735
Constructing two irrigation sluices to replace the old ones. Repairs.	380
Raising the bund and repacking the old rough stone revetment and repairing the existing irrigation sluices. Repairs... ..	6,350
Total	17,400

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

Ayacut Area	Acres 2179 8952
Assessment	Rs. 28,143 95,605
Average revenue, not stated.	
Highest do., do.	1613 9575
Expenditure during the previous four years... ..	

The works provided for the discharge of surplus appear to be in excess of the actual requirements. The area of country draining into the tank is stated to be 30 square miles, and the maximum flood discharge may, it is thought, be assumed to be about 4,342 cubic feet a second, and with two feet going over the weirs a length of 455 feet will suffice.

$$d = 450 \times 30^{\frac{1}{2}}.$$

4. There are at present—

1. A short calingulah 42 feet which is proposed to be reconstructed as a surplus weir at a cost of Rupees 720.
2. A calingulah 245 feet long, between this tank and the Tenkarai Tank which is in ruins and which it is proposed to rebuild with a length of 330 feet at a cost of Rupees 4,520.
3. A surplus weir, 155 feet long, at the west end of the bund which it is proposed to lengthen to 315 feet. Estimate Rupees 5,195.

The crest of the 42 feet weir is intended to be 1 foot above F.T.L., probably because the discharge from it runs over cultivated land. The effect of this weir in relieving

the tank will be so small that it may be left out of the calculation. The 155 feet weir appears to be in working order, and it may be retained as it is. The length of surplus weir, No. 2 required, will then be 300 feet, and the work as designed being 330 feet long will be all that is necessary; but the following modifications should be made:—

1st.—The crest wall should be at F.L.L. throughout instead of being raised over the sluice vents.

2nd.—The cut-stone facing in rear of the crest wall should be omitted. Brick-work at 5 Rupees a cubic yard ought to be quite good enough.

3rd.—The shutter planks for the sluices should be 2 inches thick only. It is to be noticed that $3\frac{1}{2}$ Rupees a cubic foot are entered for "Congoo" wood, and this rate would be high for teakwood.

The estimate as revised amounts to Rupees 3,710.

5. The estimate for repairing the bund has an item for repacking the revetment, the rate being 12 Annas a cubic yard, which is about double what is usual. On the other hand no backing to this revetment is provided for, and it is improbable that the soil of the bund is such as to allow of its omission.

There is but one rate for earthwork, and that a very high one, viz., $1\frac{1}{2}$ Annas a cubic yard. This should be examined into.

The repair of eleven out of seventeen sluices is provided for, but it is not clear whether the estimate for two new sluices is in both cases for the reconstruction of formerly existing sluices, though from the heading of the plan this would seem to be the case.

The items recommended for sanction are—

ORDINARY, AGRICULTURAL.

Original Works.

Constructing a weir ...	Rs.
Do. two sluices ...	3,710
Total, Original Works ...	390
	4,100

Repairs.

Repairs to bund...	Rs.
Do. to sluices ...	4,500
Do. and improvements to Kunmarukal surplus weir ...	1,860
	750
	7,110

The construction of the weir, Rupees 3,710, should be entered in Budget of 1877-78, the amount being in excess of the limit (Rupees 2,500) for Minor Works. The sluices can be built from the District grant for Minor New Works.

(Signed) A. DEC. SCOTT, Major, R.E.,
Depy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation

12th June 1876.

No. 312.

ORDER THEREON, 20th June 1876, No. 1,520.

IRRIGATION, No. 22.

Account.

The following estimate from the Tinnevely Range, forwarded by the District Engineer, Tinnevely, is sanctioned.

VELLUR TANK.

IRRIGATION.

Ordinary, Agricultural.

		Rs.
No. 48 I of 1876-77.	1. Constructing a weir. Original Work ...	3,710
	2. " two sluices " ...	390
	3. Repairs to bund. Repairs ...	4,500
	4. " to sluices. ...	1,860
	5. " and improvements to Kunmarukal surplus weir ...	750
	Total ...	11,210

* Item No. 1 for entry in the Budget of 1877-78.

2. This sanction has been registered as No. 48 I of 1876-77

(True Extract)

Colonel,
Offg. Under Secy. to Govt., P.W.D.,

To the District Engineer, Tinnevely.

" Collector of Tinnevely.

" Chief Engineer for Irrigation.

" Examiner of Public Works Accounts.

" Revenue Department. ✓

Exd. E. C. Shunker.

Spare Copies

14

Hand to hand office

1878
Revenue 1875 Defunct
Govt. of 1876 Madras.
PUBLIC WORKS.

To

THE DISTRICT ENGINEER.

TINNEVELLY.

&c., &c., &c.

Dated June 20th.

Issued

Recd.

10 July 1876

Encl.

G. O., 20th June 1876, No. 1,520.

JUNE

Nos. 311-312.

Dr. Mr.

Vellur Tank, Tinnevely District.— Estimate
for certain repairs and improvements to the
— sanctioned.

No 1612

Communicated to the Sd Officer

1876

11 July 1876

Dated

196

Not to be folded or roughly handled