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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	1375	Press.
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1325

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

9th May 1878, No. 382 I.

Irrigation.
Account.

Read the following papers :—

No. 27. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevely, to the Chief Engineer for Irrigation, dated Palamcottah, 8th February 1878, No. 182.

I HAVE the honor to forward for sanction an estimate of Rupees 1,063 for repairing the bund and constructing a road dam for the surplus of Pannikulam tank in the Ottapidaram taluq of the Tinnevely division.

1 Estimate.	
1 Level section of the bund.	
1 Copy of letter.	

2. I forward also a copy of the Division Officer's letter, No. 270, dated 8th October 1877; and, as therein suggested, the Local Fund Board has been asked to allot funds, and they have sanctioned a sum of Rupees 282 out of the Reserve of next year for constructing a dam in lieu of the surplus weir.

3. The difference of the estimate, viz., Rupees 781, will be met from Agricultural Funds.

From W. HUGHES, Esq., Officer in charge, Tinnevely Division, to J. D. GRANT, Esq., Officiating District Engineer, Tinnevely, dated Palamcottah, 8th October 1877, No. 270.

I HAVE the honor to submit estimate for repairing Pannikulam tank, Ottapidaram taluq. The Local Fund Board have made a road from the village to Kadambur through the tank-bed, providing a culvert of only 8' x 3' for discharge of surplus. The road, moreover, is but little above full tank level; as the road runs close to the end of tank it had better be treated as the tank bund, and the bund of the small portion of tank which it cuts off cut through for discharge of surplus. A dam will be required on this road and the road through tank-bed raised. The cost of raising the road may be set against the probable cost of raising the end of tank bund had the road not been made; but I think the Local Fund Board ought to pay the difference between cost of dam proposed now to be built on road and the sum which it would cost to build a weir where the tank has hitherto surplused, or the excess over Rupees 90 for which the weir might be built.

No. 116 L.

No. 27-A. *Note by the Chief Engineer for Irrigation.*

The Officiating District Engineer, Tinnevely, forwards, with his letter marginally noted, an estimate in connection with the Pannikulam tank belonging to the Theekoomailodai group. The tank is situated in the Ottapidaram 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.

IRRIGATION.

Original Works.

Raising the revetment of the bund with new stone	Rs. 340
Constructing a road dam in lieu of surplus weir and raising the road which passes through tank-bed	372

Repairs.

Repairing the bund, restoring revetment, repairing the bund of supply Oday in parts and also repairing the two irrigation sluices	Rs. 351
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Total ... 1,063

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

Area of area	Acres 58
Assessment	Rupces 349
Average revenue	141
Highest "	165
Expenditure during the previous four years	Not stated.
Average cultivation per square mile of catchment basin	Acres 9.3

The area of the catchment basin is 2.5 square miles; the maximum flood supply is calculated at 600 cubic feet per second, for discharging which as surplus there is no outlet, but the tank appears from the L section to have discharged round one of the ends of its bund.

The Local Fund Board have run a line of road across a corner of this tank, and have provided therein a culvert 3 x 3½ feet which is altogether inadequate to pass the surplus, and the level of the road being very low the District Engineer proposes to raise it and to substitute it for the end of the bund.

The Local Fund Board have agreed to appropriate Rupees 282 to provide for a road dam instead of a weir, and this road dam will be 126 feet in length.

The bund and revetment of this tank are in some parts low and out of order, and the two irrigation sluices are in need of repairs.

The estimate provides for—

1stly.—Repairing and raising the bund to 4.5 feet above F.T.L. with a top width of 4.5 feet and side-slopes of 2 to 1, repairing the revetment and raising it where needed with new stone to 1.5 feet above F.T.L., repairing the banks of the "Oday" or supply channel where required, and for repairing two irrigation sluices.

The section of the bund and revetment, as given in the specification report, is not good, and should be revised as shown in pencil. The top of the revetment and back-slope should be covered in with two layers of sods, and the earthwork formed over these as shown. Vertical revetments are not desirable, and the retirement of the top of the bund from the line of the revetment adds to the difficulty of maintaining the latter.

The slope of the revetment may be 1 to 1.

All such sketches should be drawn to scale which can be easily done on section paper.

The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved.

Head of Service.—Irrigation.*Fund.*—Ordinary Agricultural.

Name of System or Group.	Distinguishing Number or Letter of Group.	Name of Tank or Channel.	Description of Work.	Main-head.	Class.	Amount of each item.	Amount to be separately accounted for.
Theekoomailodai group.	2	Pannikulam tank	Raising bund, constructing a road dam, and raising road, repairing bund revetment, supply Oday, and two irrigation sluices.	Irrigation.	Original Works Do. Repairs ..	Rs. 340 90 351	Rs. 430 351

* Share of cost chargeable to irrigation.

Ottapidaram,
4th May 1878.

(Signed)

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

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

No. 28. ORDER THEREON, 9th May 1878, No. 382 L.

The following estimate from the Tinnevely Range, forwarded by the Officiating District Engineer, Tinnevely, is sanctioned:—

Head of Service.—Irrigation.

Theekoomailodai Group.

Pannikulam Tank.

Raising the revetment of bund, Original Works	Rs. 340
Constructing a road dam and raising the road, do.	90
Repairing bund, supply channel, and two irrigation sluices, Repairs	351

2. The Local Fund Board have sanctioned the amount of Rupees 282 towards the construction of the road dam, the remainder (Rupees 90) together with the amounts for the repairs of the bund and sluices will be provided from the Ordinary Agricultural grant of the district.

The work is to be carried out by the Public Works Department Officer in charge, Tinnevely Range.

3. These sanctions are registered as No. 45 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, Tinnevely.
" Collector of Tinnevely.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.
" Financial Secy.

Edw. E. C. Shunker.

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