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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	38	Press.
B.P. No.		Mis.
Dated	7.1.1898	197

Not to be folded or roughly handled.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

17th December No. 609 I.

Irrigation.

Read the following papers:—
No. 56. From Lieutenant-Colonel Engineer, North Arcot, to the Chief Engineer, dated Vellore, 20th September 1877, No. 2,042.
I HAVE the honor to submit for

- 1 Section.
- 1 Plan.
- 1 Sketch.
- 2 Detailed estimates.
- 2 Abstract do.
- 1 Hydraulic statement.

raising and widening is required. The stone masonry to protect the bund.

3. At present there is a small escape discharge the drainage supply of 562 cubic feet per second; it is therefore proposed to build a new flush escape 60 feet long, with rough stone.
4. Of the other tanks forming the group, the Murukary and Coopum are at present under repair from famine relief fund; the remaining two tanks are in fair order.
5. The information of Hydraulic and financial details are given in the enclosed statement.

No. 263 I.

No. 56-A. *Note by the Chief Engineer for Irrigation.*
THE District Engineer, North Arcot, forwards, with his letter marginally noted, an estimate in connection with the No. 2,042, dated 20th September 1877. Palavary Tank Coopum sub-group of the Thorapady tank group situated in the Vellore Taluq, Vellore 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.

		RS.
Original Works.		60
Constructing a loose stone escape	...	470
Raising the revetment of the bund with new stones	...	
Repairs.		440
Raising and repairing the bund	...	
Total		970

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

Ayacut area	...	26 Acres.
Assessment	...	140 Rupees.
Average revenue	...	180 "
Highest do.	...	Not stated.
Expenditure during the previous four years	...	Nil.
Average irrigation 24 acres to the square mile of drainage.	...	

This is the uppermost tank of the Coopum sub-group.

The area of the catchment basin calculated at 562 cubic feet per second weir 19.5 feet in length, the crest of length of the weir is insufficient to discharge the surplus; it is therefore proposed to construct a rough stone flush escape apparently efficient its abolition does not appear to be desirable, and the longitudinal section shows that there need be no change in retaining the crest of the weir at its proper level. The arrangements recommended therefore are—

(1.) The retention of the present weir as it is at about 19.76, which will be F.T.L.

(2.) The construction of a dry escape 60 feet long as proposed.

(3.) M.W.L. will then be but above 21.26, and the top of the bund may be at 23.26 as intended.

The bund has been breached and the revetment has sunk in some places. Portions of it are low and require raising; the estimate provides for—

1st.—Raising and repairing the portions of the front slope.

2nd.—Raising the revetment of the bund with new stones.

3rd.—Constructing a rough stone escape.

It is observed that the proposed expenditure is about seven times the average revenue under the tank, and nearly four times the revenue are proposed to be spent on raising the revetment. In the sections there is no sign of any revetment, and there is no item for repacking it. The large expenditure on new revetment is not recommended for sanction.

The dry stone revetments forming the wings of the 60 feet escape must have a gravel backing not less than 9 inches thick, but the thickness of these revetments may be reduced 6 inches throughout.

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.
Main group, Thorapady Tank. Sub-group, Coopum Tank.	...	Palavary Tank.	Constructing rough stone escape.	Irrigation.	Original works.	rs. 60	rs. 60
		...	Repairing bund.		Repairs.	440	440

4th December 1877.

(Signed) P. MONTGOMERIE, Major, R.E.,
Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

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

No. 57.

ORDER THEREON, 17th Dec.

The following estimates from the Veterinary Engineer, North Arcot, are sanctioned.

HEAD OF SERVICE.

Fund.—Ordinary

Thorapady Tank, main group.

Coopum Tank, sub-group.

Palavary Tank.

Work.—Constructing loose stone escape.

Repairing bund—Repairs ...

To be carried out by the Public Works Department.

2. This sanction has been registered at

(True E.)

1877, No. 609 I.

Range, forwarded by the District

IRRIGATION.

Agricultural.

Palavary Tank ... rs. 60
... 440

Officer in charge of Vellore Range.

33 I of 1877-78.

Major, R.E.,

Asst. Secy. to Govt., P.W.D.,
Irrigation Branch.

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

Exd. A. Grubert.

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IRRIGATION.
ACCOENT.

Govt. of 1877 Madras

PUBLIC WORKS.



To

The DISTRICT ENGINEER,
NORTH ARCOT,
do., do., do.

Dated December 17th.

Issued

De M...

Recd 5 January 1878 Encl.

G. O. 179 December 1877 No. 509 I.

DECEMBER

Nos. 56-57.

1038
Comm^d to the
Board of Revenue
7 Jan'y 78.

... of the ...
...
... for ...

11 Feb. 1878. Recd. 29 Jan'y 78.