

(1) Number of pages 4
(2) Date of repair 9-1-1971
(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	3501	Press.
B.P. No.		Mis.
Dated	21-6-1877	197 ..

Not to be folded or roughly handled. *PR*

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

5th June 1877, No. 68 I.

Irrigation.
Account.

Read the following paper:—

No. 88 I.

No. 20. *Note by the Chief Engineer for Irrigation.*

THE District Engineer, South Arcot, forwards, with his letter marginally noted, an estimate in connection with the Ariempalliem Tank situated in the Trikalore Taluq, Cuddalore 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.
Constructing a rough stone escape	198

Repairs.

Raising and repairing the Bund, &c.	369
Repairing the Irrigation Sluice	58
Repairing the Calingulah	10
Total	635

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

Ayacut area	...	...	164 Acres.
Assessment	...	...	45 Rupees.
Average revenue	...	...	45 "
Highest do.	...	...	45 "
Expenditure during the previous four years	...	...	Nil

The latitude and longitude of the tank are not given.

The area of the catchment basin is 10 square miles, the maximum flood supply is calculated at 2,038 cubic feet per second for discharging which as surplus there is a calingulah 30 feet in length and a by-wash 10 feet, making a total length of 40 feet (the effective length of the calingulah is not specified); in addition to these works, it is proposed to form a rough stone escape 100 feet in length at the west end

of the bund, so as to make an aggregate length of 140 feet available for the surplus discharge.

The difference between F.T.L. and M.W.L. at present is 5 feet, which, by the proposed arrangements, will be reduced to 3.5 feet.

The bund of this tank was breached in 1874-75 and was closed as a work of emergency at a cost of Rupees 296-10-9, which sum is included in the estimate under review.

The existing irrigation sluice is constructed of rough stone and leaks through the top; it is, therefore, proposed to remove that portion of the rough stone work and to replace it by a semi-circular brick arch.

The body wall of the calingulah is slightly cracked and a portion of the apron destroyed.

It is not stated, as it should have been, whether this tank is one of a group or an isolated one. It is assumed to be the latter.

The estimates provide for—

1st.—Raising and repairing the bund, which includes the amount of expenditure incurred on emergency.

2nd.—Repairing the irrigation sluice.

3rd.—Repairing the calingulah.

4th.—Forming an escape 100 feet in length and for cutting a channel.

It is stated that by carrying out these improvements 13 acres of dry land will be brought under wet cultivation and that the present revenue is likely to be increased by Rupees 50.

Several points require notice:—

1st.—The catchment basin is said to be 10 square miles and the ayacut and average cultivation are 16½ and 16¼ acres respectively. Consequently the drainage of a square mile irrigates only 1.65 acres, a circumstance which needs explanation.

2nd.—The bund is almost everywhere of ample height if adequate means of discharging surplus be provided as intended. A margin of 2 feet above M.W.L. will suffice and the provision for raising bund, may be reduced from Rupees 70 to 10.

3rd.—It is proposed to place the new escape at the west end of the bund, and the sketch shows that the surplus will run nearly parallel to the bund and across the irrigation channel to the surplus channel of the calingulah. It would seem, therefore, that the east end of the bund is the proper place for this escape.

4th.—The calingulah should be converted into a flush weir by the removal of the upright stones. Rupees 5 may be allowed for this.

The estimate, reduced to Rupees 580, is recommended for sanction.

FORT ST. GEORGE,
1st June 1877.

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

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

No. 30.

ORDER THEREON, 8th June 1877, No. 68 I.

THE following estimate from the Cuddalore Range forwarded by the District Engineer, South Arcot, is sanctioned:—

ARIEMPOLLIEM TANK.

Head of Service—Irrigation.

Group or Project.	Fund and Main-head.	Class.	Name of Tank.	Particulars of Work.	Amount.
.....	Ordinary Agricultural, Irrigation.	Original Works.	Ariempolliem Tank.	1. Escape...	Rs. 198
		Repairs.		2. Repairing Bund.	309
				3. Repairing Sluice.	58
				4. Repairing Calingulah...	15
				Total ...	580

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

2. This sanction has been registered as No. 60 I of 1877-78.

(True Extract.)

W. L. L. L.

Lt.-Col., R.E.,

Joint Secy. to Govt., P.W.D.,

Irrigation Branch.

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

Ed. J. W. Fischer.

Specie Copies.

Revenue Department
No 2994

IRRIGATION
ACCOUNT

Govt. of 1877 Madras
PUBLIC WORKS.

THE DISTRICT ENGINEER,
SOUTH ARCADE.

aided by

*8. 8. 77
H. G. Ramesh
22.6.77*

aided by

aided by

aided by

Q. O. 2th 2 June 1877 No. 48 L.

aided by

JUNE

Nos. 29-30.

Ammapettam Town, South Arcot District.
The estimate of Rs. 500 for irrigation
the — station.

493501

Consent to the
Board of Revenue
21 June 77