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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

21st September 1877, No. 332 I.

Irrigation.
Account.

Read the following paper :—

No. 171 I.

No. 102. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Poloor Range are forwarded by the District Engineer, North Arcot, with his letter No. 766, dated 14th June 1877. marginally noted :—

Taluk.	Village.	Work.	Amount.
Poloor...	Thavimungalum ...	V. Tank ...	RS. 2,240
Do. ...	Capaloor ...	V. Tank ...	4,610
Total ...			6,850

2. The financial and hydraulic details of the Irrigation works concerned are exhibited in the following statement :—

I.—Financial Details.

Name of Work.	Aycut Area.	Assessment.	Average Revenue for five Years.	Highest Revenue for five Years.	During the previous four Years.	OUTLAY.		
						PROPOSED. ORDINARY AGRICULTURAL, IRRIGATION.		
						Original Works.	Repairs.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT. RS.
Thavimungalum tank	100	642	595	Not stated.	Nil	370	1,840	74.2
Capaloor tank	548	2,409	1,319	Do.	Do.	215	4,396	39.7
Total	648	3,051	1,914			585	6,236	46.8

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.T.L. per Second.	Tanks above.
		per Catchment Second.	per Channel Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Thavimungalam tank	52. MS. 2.75	1,102	1	FT. 17	FT. 17	FT. 1.95	FT. 0.04	C. FT. 133.2	No. 1
Capaloor tank	4.5	1,533	196	W 120 K 57 F 70	120 47 127	4.50 3.06 5.00	0.56 0.56 2.50	1,140.3 1,558.8 1,523.8	2

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used:—C. Calingulah with dam stones. W.—Weir with overfall. E.—Escape at ground level. B.—Bund of tank. V.—Village. F.—Masonry flush escape.

3. The following is a summary of the work proposed to be carried out in each case:—

Thavimungalam Tank.—This tank is situated in latitude $12^{\circ} 28' 15''$ and longitude $79^{\circ} 21' 10''$, and is a terminal tank of a sub-group of Colapaloor large tank group.

The tank in addition to its own drainage area receives a supply of about 100 cubic feet a second by a supply channel from the surplus of Thutchombody and other tanks.

The bund of this tank is low and weak throughout. It was breached in the cyclone of 1874, and one of its irrigation sluices was then carried away and another sluice so injured as not to be repairable. At present the surplus is discharged through a cut in the bund. The supply channel is out of order, and is overgrown with jungle.

The estimates provide for—

- (1). Raising and repairing the bund, closing the breach and turfing front and rear slopes.
- (2). Clearing and widening the supply channel and raising its banks on both sides.
- (3). Reconstructing two irrigation sluices.
- (4). Constructing a masonry weir.

The estimates are recommended for sanction, but as the turfing of front and rear slopes is scarcely likely to prove of permanent utility, Rupees 450 provided for that work should be struck out.

Capaloor Tank.—This tank is situated in latitude $12^{\circ} 29' 40''$ north and longitude $79^{\circ} 9' 20''$ east, and belongs to the Vassoor large tank group.

It receives a supply from the channel which runs from the Elathoor dam across the Cheyair to Poloor tank. This channel intercepts the upland drainage, but the Chief Engineer for Irrigation in his inspection memorandum No. 69 W, 21st March 1876, having pointed out the necessity for works to pass the drainage across the channel they are about to be provided, and this tank will receive the flow from a catchment area of some $4\frac{1}{2}$ square miles.

The estimates provide for—

- (1). Raising and repairing the bund, repacking the revetment with "jelly filling" to the interstices and gravel backing, turfing the front slope above the revetment and sowing grass seeds on the rear slope.
- (2). Converting the calingulah into a weir with body wall crest at F.T.L.
- (3). Constructing a masonry escape.

Of the estimate (Rupees 4,200) for repairing the bund, Rupees 683 are for "turfing and grass sowing." It does not seem advisable to spend so much on work, the success of which is very doubtful, and Rs. 700* may be deducted from the estimate on this account.

The designs for the two sluices should be modified as indicated on the plan.

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.

Names of System or Group.	Distinguishing Number or Letter of Group.	Name of Tanks.	Description of Work.	Main Head.	Class.	Amount of each item.	Amount to be separately accounted for.
Colapaloor large tank group.		Thavimungalam tank	Repairing bund Do. supply channel Reconstructing two sluices Weir	Irrigation.	Repairs	Rs. 790	Rs. 1,390
					Do.	140	
					Do.	450	
					Original Works.	370	
Vassoor large tank group.		Capaloor tank	Repairing bund Converting calingulah into weir. Flush escape	Irrigation.	Repairs	Rs. 3,500	Rs. 3,695
					Do.	195	
					Original Works.	215	

FORT ST. GEORGE,
10th September 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. 103. ORDER THEREON, 21st September 1877, No. 332 I.

THE estimates for Irrigation Works in the Poloor Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned.

Head of Service—Irrigation.

Name of System or Group.	Name of Tank.	Description of Work.	Class.	Amount.	Irrigation Register No.
Colapaloor large tank group.	Thavimungalam tank.	Repairing bund Do. supply channel Reconstructing two sluices Weir	Repairs Original Works.	Rs. 790 140 450 370	1 } 204 I. 2 }
				1,760	
Vassoor large tank group.	Capaloor tank.	Repairing bund Converting calingulah into weir. Flush escape	Repairs Original Works.	3,500 195 215	1 } 205 I. 2 }
				3,910	

2. These sanctions are registered as shown above.

(True Extract.)

W. S. S. S.

Colon
Joint Secy. to Govt., P.W.
Irrigation

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

3/10

Revenue Department
No 4236
IRRIGATION,
ACCOUNT.

Cobl. of 1877; Madras.
PUBLIC WORKS.

To

The DISTRICT ENGINEER,
NORTH ARCOT,
&c. &c. &c.

Dated September 21st.

Issued

Recd. 3 October

Encl.

G. O., 21st September 1877, No. 222 I.

W. B. M.

SEPTEMBER.

Nos. 102-103.

Thavimungalam and Copalcoor Tanks,
North Arcot District.—Sanctions estimates
for repairs to the —

Rs. 6030

Comwd to the

Board of P.

976 109 Revenue (1877)