

(1) Number of pages 3 sheets

(2) Date of repair 8.12.81

(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	6022	Press.
B.P. No.		Mis.
Dated	4-10-1899	197

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967 Archives 1-10,006-19-4-79.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

20th September 1877, No. 328 I.

Irrigation.
Account.

Read the following paper :—

No. 166 I.

No. 94. *Note by the Chief Engineer for Irrigation.*

The following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, No. 1,413, dated 16th July 1877. with his letter marginally noted :—

Taluq.	Village.	Work.	Amount.
			RS.
Madranticum ...	Padiri ...	S. No. 98, V. tank ...	1,380
Do. ...	Serappakkam ...	S. " 7, V. large tank ...	1,355
Do. ...	Vedantungal ...	S. " 237, V. tank ...	1,135
Do. ...	Vayalur ...	S. " 9, V. " ...	790
Total ...			4,660

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

I.—Financial Details.

Name of Work.	Aycent Area.	Assessment.	Average Revenue for five Years.	Highest Revenue for five Years.	OUTLAY.			
					During the previous four Years.	PROPOSED, ORDINARY AGRICULTURAL, IRRIGATION.		
						Original Works.	Repairs.	Average Annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.
Padiri tank ...	182	710	585	656	Nil.	240	1,140	47.2
Serappakkam large tank ...	68	343	327	367	Do.	430	925	82.8
Vedantungal tank ...	110	490	289	382	Do.	430	705	78.5
Vayalur tank ...	67	203	221	289	81	..	790	78.8
Total ..	417	1,751	1,422	1,694	81	1,100	3,560	66.7

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.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Padiri tank ..	SQ. M. 2.0	C. FT. 893	C. FT.	FT. 188	FT. 188	FT. 5.0	FT. 3.0	C. FT. 893.2	NO. NIL.
Serappakkam large tank.	1.0	562	..	15 15	15 15	2.25 2.25	0.25 0.25	117.5 117.5	NIL.
Vedantungal tank ..	1.0	562	..	NIL. 118	NIL. 118	4.5 2.50	2.5 1.00	560.6 117.5	Not stated.
Vayalur tank ..	1.0	562	..	45 182	45 182	1.75 4.0	0.25 2.5	229.0 561.6	Do.

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 over fall. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Revenue Survey.

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

Padiri Tank.—This is a rain-fed tank situated in the catchment basin of the Madranticum tank in latitude $12^{\circ} 29'$ and longitude $79^{\circ} 50'$.

This tank was breached and badly eroded by the cyclone of 1874 and was patched up by the ryots. It has three Irrigation sluices, of which two are in need of slight repairs, and the other is in need of a new head and rear cistern. The tank has no surplus work, but temporary cuts are made in the bund on occasions of heavy floods.

The drainage channel conducting the supply to the tank is in bad order; it is over rock and hard ground and has hardly any fall, and the embankment breaches at every heavy fall of rain. It is proposed to divert and improve it.

The tungal adjoining the tank is to be abandoned, and the land in its bed utilized for cultivation.

The estimates provide for—

- (1.) Raising and repairing the bund, planting kuskus up to M.W.L., and turfing above that level.
- (2.) Repairing the tank feeder.
- (3.) Repairing two Irrigation sluices.
- (4.) Forming an escape planted with grass.
- (5.) Constructing new head and rear cistern to an Irrigation sluice.

They are recommended for sanction, the first and second however being reduced to Rupees 655 and Rupees 135 respectively, by striking out the provision for turfing. The irrigated area would indicate a probably longer catchment basin for this tank than that stated.

Serappakkam Large Tank.—This tank is situated in the Madranticum tank basin in latitude $12^{\circ} 35'$ and longitude $79^{\circ} 45'$; it was badly damaged by the cyclones of 1872 and 1874; the damage was patched up. The tank has one Irrigation sluice which has been ruined by the roots of a banian tree. The present provision for the surplus discharge is a breach in the bund.

The estimates provide for—

- (1.) Raising and repairing the bund, repacking the narrow belt of revetment which is from 3 to $4\frac{1}{2}$ feet below F.T.L., protecting the slope above revetment with kuskus grass and turf; also forming an escape planted with grass.

- (2.) Constructing an Irrigation sluice to replace the damaged sluice.

The estimate for repair of the bank may be reduced by Rupees 125, the amount provided for turfing, and with this alteration the estimates are recommended for sanction.

The sluice is an expensive one, its floor having to be 10 feet 6 inches below F.T.L. and 15 feet below the top of the bank.

The banian tree which has been the ruin of the existing sluice must be removed, and, as noted in paragraph 5 of Circular No. 69, "none of the varieties of banian should be grown on Irrigation works, and none of these or of other trees with wide-spreading roots should be allowed in the neighbourhood of masonry works."

Vedantungal Tank.—This tank is situated in the Madranticum tank basin in latitude $12^{\circ} 31'$ and longitude $79^{\circ} 55'$; it was breached by the cyclone of 1874 for not having had an outlet for the surplus discharge, and its only sluice was partly carried away.

The estimates provide for—

- (1.) Raising and repairing the bund, planting kuskus up to M.W.L., and turfing above that level; also forming an escape planted with grass.
- (2.) Constructing an Irrigation sluice to replace the damaged sluice.

The sluice is an expensive one, the conditions of its site being, as shown on the plan for it, almost exactly alike those noticed in connection with the similar work for the Serappakkam tank.

It is supposed that there are no tanks lying above the one under notice, but no information on the subject has been given.

The estimates are recommended for sanction.

Vayalur Tank.—This tank is situated in the catchment basin of the Madranticum tank in latitude $12^{\circ} 35'$ and longitude $79^{\circ} 46'$; it was breached and damaged by the cyclone of 1874, and was patched up to save the revenue that year.

The tank has two Irrigation sluices, both in need of repairs. The surplus is discharged through breaches at the end of the bund.

The estimate provides for raising and repairing the bund, planting kuskus up to M.W.L., and turfing above that level, repairing two Irrigation sluices; also forming an escape planted with grass.

It is recommended for sanction.

In this case also no information has been given as to whether there are or are not any high lying tanks.

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 Tanks.	Description of Work.	Main head.	Class.	Amount of each Item.	Amount to be separately accounted for.
Madranticum Tank.	..	Padiri tank ..	Repairing bund ..	Irrigation.	Repairs ..	Rs. 655	Rs. 910
			Do. tank feeder ..		Do. ..	135	
			Do. two sluices ..		Do. ..	70	
			Planted escape ..		Do. ..	50	
			Improving a sluice ..		Original Works ..	240	
	..	Serappakkam large tank	Repairing bund and forming a planted escape.		Repairs ..	800	800
			Irrigation sluice ..		Original Works ..	430	
			Repairing bund and forming a planted escape.		Repairs ..	705	
			Irrigation sluice ..		Original Works ..	430	
			Repairing bund and two sluices and forming a planted escape.		Repairs ..	790	
	..	Vedantungal tank	Repairing bund and two sluices and forming a planted escape.		Original Works ..	430	430
			Irrigation sluice ..		Repairs ..	790	
	..	Vayalur tank	Repairing bund and two sluices and forming a planted escape.		Original Works ..	430	430
			Irrigation sluice ..		Repairs ..	790	

PORT ST. GEORGE,
3rd 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. 95. ORDER THEREON, 20th September 1877, No. 328 I.

THE estimates for Irrigation works in the No. 3 or Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned.

Head of Service—Irrigation.

Name of Tank.	Description of Work.	Class.	Amount.	Irrigation Register No.
Padiri tank	Repairing bund	Repairs ...	Rs. 655	190 I.
	Do. tank feeder		135	
	Do. two sluices		70	
	Planted escape	Original Works	50	
	Improving a sluice		240	
			1,150	
Serappakkam large tank	Repairing bund and forming a planted escape.	Repairs ...	800	191 I.
	Irrigation sluice	Original Works	430	
			1,230	
Vedantangaltank	Repairing bund and forming a planted escape.	Repairs ...	705	192 I.
	Irrigation sluice	Original Works	430	
			1,135	
Vayalur tank	Repairing bund and two sluices and forming a planted escape.	Repairs	790	193 I.
			790	

2. These sanctions have been registered as shown above.

(True Extract.)

Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, Chingleput
" Collector of Chingleput.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts
" Revenue Department.

Encl. E. C. Shunker.
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Revenue - Expenditure

No 4218

IRRIGATION
ACCOUNT.

Govt. of 1877 Madras.

PUBLIC WORKS.

To

✓
The SUPERINTENDING ENGINEER,
CHINGLEPUT,
&c., &c., &c.

Dated September 20th.

Issued

Recd. 2 October

G. O., 20th September 1877, No. 328 L.

SEPTEMBER.

Nos. 94-95.

Tanks in Madras District. - Sanctioned estimates for repairs to certain

Boards

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