

(1) Number of pages 3 sheet
(2) Date of repair 9-12-87
(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	6027.	Press.
B.P. No.		Mis.
Dated	5 Nov 77	1977.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

21st September 1877, No. 334 I.

Irrigation.
Account.

Read the following paper:—

No. 150 I.

No. 106.

Note by the Chief Engineer for Irrigation.

The following estimates from the Chingleput Range are forwarded by the Superintendent Engineer, Chingleput, No. 552, dated 16th May 1877. with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
			Rs.
Madranticum	Kilput	S. No. 343 V. tank ...	565
Do.	Tottonaval	Do. 333 V. " ...	860
Do.	Araiappakkam	Do. 335 V. " ...	2,682
Do.	Melvalam	Do. 334 V. " ...	820
Total ...			4,927

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

I.—Financial Details.

Name of Work.	Ayacut Area.	Assessment.	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.	PER CENT.
Kilput tank	88	366	293	309	Nil.	565	38.4
Tottonaval tank	185	393	225	250	...	860	76.4
Araiappakkam tank	328	1,578	1,079	1,184	152	2,530	49.7
Melvalam tank	194	923	446	543	...	820	36.7
Total ...	795	3,260	2,043	2,286	152	4,775	48.2

II.—Hydraulic Details.

Name of Work.	Catchment Basin, Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharge at M.W.L. per Second.	Tanks above.
		Per Catchment Second.	Catchment Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Kilput tank	0.5	354	..	E 12	12	3.5	2.5	34.5	None.
Tottonaval tank	2.0	893	..	E 114	114	4.25	2.25	541.6	1
Araiappakkam tank	1.5	737	..	E 31	259	4.5	3.0	894.9	1
Melvalam tank	0.75	464	..	E 94	94	5.0	3.0	736.7	None
				E 48	48	1.75	0.25	244.3	
				E 102	150	4.0	2.5	559.1	

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.—Band of tank. V.—Village. S.—Revenue Survey.

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

Kilput Tank.—This tank is situated in latitude $12^{\circ} 29'$ and longitude 80° , and joins the Veerajeeconum Poothary tank.

The tank under review was damaged by the cyclone of 1874, the bund is low and weak, the pyal and cistern walls of the sluice are dilapidated, and the present means of discharging surplus is a breach.

The estimate provides for—

- (1.) Raising and repairing the bund, planting kuskus up to M.W.L., and turf above that level; also forming a grass planted escape of 102 feet long and constructing front and side face and wing walls of the sluice.

It is recommended for sanction.

Tottonaval Tank.—This is one of the tanks commanding the South Indian Railway and is situated in latitude $12^{\circ} 31'$, and longitude $79^{\circ} 58'$.

The Karoongooly tank lying above this tank receives a supply from the north Madranticum channel regulated by a head sluice in addition to that from its own catchment basin.

The tank under review was damaged by the cyclones of 1872 and 1874, and was in danger of breaching. The bund is very low and weak and the existing two sluices are in need of slight repairs, the calingulah is inadequate and is also in a dilapidated condition.

The estimate provides for—

- (1.) Raising and repairing the bund, planting kuskus up to M.W.L., and turfing above that level.
- (2.) Forming an escape planted with grass of 223 feet long.
- (3.) Repairing two sluices.
- (4.) Repairing the calingulah and converting it into a weir.

The grass escape is not considered suitable. Rough stone is procurable at 1 Rupee a cubic yard, and this is a very liberal rate. An escape formed with a pavement 2 yards wide and 2 feet thick at length of 100 feet take about 12 cubic yards for the rest, adding 8 Rupees for earthen works, the total will be Rupees 65 against 30 for the grass escape; so Rupees 35 thus revised, recommended for sanction.

Araiappakkam Tank.—This tank is situated below the South Indian Railway at the 45th mile, and is situated in latitude 12° and longitude $79^{\circ} 58'$.

The Melvalam tank lying above the tank surpluses into the north Madranticum channel, and the tank under notice receives a supply from this channel regulated by a sluice.

This tank was much damaged by the cyclones of 1872 and 1874 and was in great danger of breaching on both occasions.

The bund is low and weak, and the three Irrigation sluices require repairs, and the present means of discharging the surplus are breaches at one end of the bund considerably enlarged and deepened by the floods of 1872 and 1874.

The estimate provides for—

- (1.) Raising and repairing the bund, repacking the revetment, planting kuskus and turfing wherever required; also closing breaches.
- (2.) Repairing the sluice in supply channel.
- (3.) Remodelling the three Irrigation sluices.
- (4.) Constructing a rough stone escape 94 feet long.

The turfing above the revetment may be dispensed with and the estimate thereby reduced by Rupees 200.

Melvalam Tank.—This tank is situated in latitude $12^{\circ} 31'$ and longitude $80^{\circ} 0'$. The surplus of this tank falls into the north Madranticum channel which runs between it and the Araiappakkam tank.

This tank was much injured by the cyclones of 1872 and 1874.

The estimate provides for—

- (1.) Raising and repairing the bund, planting kuskus up to M.W.L., and turfing above that level.
- (2.) Repairing two Irrigation sluices.
- (3.) Providing a rough stone pavement to the existing breach which at present is the only means of surplusing.
- (4.) Forming a new escape 102 feet long planted with grass.

Instead of this grass escape 77 feet altogether or 29 feet in addition to the 48 feet of rough stone escape should be provided, and apparently the Rupees 10 entered for the grass escape will suffice for the modification.

The estimate is recommended for sanction.

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.
..	..	Kilput tank	Repairing bund and forming a planted escape.	Irrigation.	Repairs..	355	565
..	..	..	Repairing sluice ..		Do. ..	210	
..	..	..	Do. bund ..		Do. ..	644	
..	..	Tottonaval tank	Dry stone escape ..		Do. ..	65	895
..	..	..	Repairing two sluices ..		Do. ..	77	
..	..	..	Do. and forming calingulah weir.		Do. ..	109	
..	..	Araiappakkam tank	Repairing bund ..		Do. ..	1,495	2,330
..	..	..	Do. three sluices ..		Do. ..	815	
..	..	..	Do. sluice channel.		Do. ..	20	
..	..	..	Loose stone esc ..		Original Works.	152	152
..	..	Melvalam	Repairing bund ..	..	Repairs..	698	820
..	..	..	Do. two sluices ..		Do. ..	98	
..	..	..	Dry stone esc ..		Do. ..	14	
..	..	..	Do. escape ..	..	Do. ..	10	

FORT ST. GEORGE,
29th August 1877.

G. T. WALCH,
g. Dy. Chief Engr. for Irrigation,
for Chief Engineer for Irrigation.

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

No. 107. ORDER THEREON, 21st September 1877, No. 334 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 ...—Irrigation.

Name of Tanks.	Description of Work.	Class.	Amount.	Irrigation Register No.
Kilput tank ...	Repairing bund and forming a planted escape.	Repairs.	RS. 355	210 I.
	Repairing sluice		210	
			565	
Tottonaval tank ...	Repairing bund	Repairs.	644	211 I.
	Dry stone escape		65	
	Repairing two sluices		77	
	Repairing and converting calingulah into weir.		109	
Araiappakkam ...	Repairing bund	Repairs.	895	212 I.
	Do. three sluices		1,495	
	Do. sluice in supply channel...		815	
	Loose stone escape		20	
		Original Works.	152	
Melvalam tank ...			2,482	213 I.
	Repairing bund	Repairs.	698	
	Do. two sluices		98	
	Dry stone escape		14	
	Do.		10	
Total ...			820	

2. These sanctions are registered as shown above.

(True Extract.)

W. L. ...

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

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

3/10

Exd. E. C. Shunker.

Spare Copies

Revenue Department
No 4233
IRRIGATION
ACCOUNT.

Govt. of 1877 Madras.
PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
CHINGLEPUT,
&c. &c. &c.

Dated September 21st.

Issued

Recd. 3 October

Encl.

G. O., 21st September 1877, No. 334 I.

SEPTEMBER

Nos. 106-107.

Tanks, Chingleput District.—Sanctions
estimates for repairs to certain—

10.6.27
C. M. H. to the
S. of Revenue

976488 (Revenue) 5-10-77