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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No. 6350	Press. / Mis.
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

5th November 1877, No. 461 I.

Irrigation.
Account.

Read the following paper :—

No. 220 I.

No. 15. *Note by the Chief Engineer for Irrigation.*

The following estimates, from the No. 3 or Chingleput Range, are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted :—

No. 2,247, dated 12th September 1877.

These tanks appertain to the group of which the Taiyur tank is the terminal.

Taluq.	Village.	Work.	Amount.
			RS.
Chingleput	Kumili	... ... S. No. 19 V. Nattary tank	260
Do.	Do.	... ... S. No. 19 V. large tank.	340
Do.	Kolattur	... ... S. No. 28 V. Porur tank	305
Do.	Murugamangalam...	... ... S. No. 25 V. tank ...	195
		Total ...	1,100

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.	Average Revenue for five Years.	Highest Revenue for five Years.	OUTLAY. During the previous four Years.	OUTLAY. Proposed Ordinary Agricultural Irrigation. Original Works.	OUTLAY. Proposed Ordinary Agricultural Irrigation. Repairs.	OUTLAY. Proposed Ordinary Agricultural Irrigation. Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT. RS.
Kumili Nattary Tank	122	373	412	472	None.	..	260	12·6
Do. large Tank	80	252	210	223	Do.	65	275	32·4
Kolattur Porur Tank	45	127	103	122	Do.	..	305	59·2
Murugamangalam Tank	75	249	235	264	Do.	..	195	16·6
Total ..	322	1,001	960	1,081	..	65	1,035	22·9

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply. Catchment per Second.	Maximum Supply. Channels per Second.	Length of Escape. Total.	Length of Escape. Effective.	Average Height of Bund. Above F.T.L.	Average Height of Bund. Above M.T.L.	Surplus discharged at M.T.L. per Second.	Tanks above.
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Kumili Nattary Tank ..	1·75	816	..	E. 111	111	1·5	6·0	565·1	1
Do. large Tank ..	1·0	562·5	..	E. 272 I. 30	272 30	4·0 2·5	2·5 0·5	839·4 235·1	None.
Kolattur Porur Tank ..	1·5	737	..	E. 72 V. 18·5	72 18·5	4·0 3·0	2·0 1·0	564·3 175·8	1
Murugamangalam Tank ..	1·25	652·5	..	W. 18·5 E. 119 I. 80 I. 214	137·5 60 214	4·0 1·75 3·5	2·0 0·25 2·0	741·2 305·4 660·4	None.

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small. The following abbreviations are used:—I.—Kalingulah with dam stones. W.—Weir with overfall. 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:—

Kumili Nattary Tank.—This tank receives the surplus of the Kumili large tank and is situated in the Taiyur basin in latitude 20° 48′ 35″ and longitude 80° 10′ 40″.

This tank was eroded and its side-slopes washed out by the floods of 1872 and 1874, the irrigation sluice is in need of slight repairs, and the present opening at the north end of the bund is insufficient to discharge the surplus.

The estimate provides for raising and repairing the bund, planting tank grass up to F.T.L., repairing the irrigation sluice, and extending the existing escape, and planting the whole with grass.

Kumuli large Tank.—This tank is situated in the Taiyur basin in latitude 12° 48′ 30″ and longitude 80° 10′ 0″.

The bank of this tank was eroded and its side-slopes washed out by the floods of 1872 and 1874, but the revetment which is up to F.T.L. is in good order, the only irrigation sluice which this tank has is in need of slight repairs, and the existing rough stone escape is inadequate to discharge the surplus.

The estimate provides for—

(1).—Raising and repairing the bund, also repairing the irrigation sluice.

(2).—Extending the rough stone escape.

Kolattur Porur Tank.—This tank is situated in the Taiyur basin in latitude 12° 50′ 30″ and longitude 80° 12′ 15″, and receives the surplus of the Murugamangalam tank.

The bank is much eroded, its slopes washed out by the floods of 1872 and 1874, and the irrigation sluice is in need of repairs; the existing weir, with a vent in its body wall, is inadequate to discharge the surplus.

The estimate provides for raising and repairing the bund, securing the front slope with a belt of tank grass up to F.T.L., repairing the irrigation sluice and weir and blocking up vent in the body wall of the weir up to the present crest level, and also forming an escape planted with grass.

Murugamangalam Tank.—This tank is situated in the Taiyur basin in latitude 12° 49′ 40″ and longitude 80° 11′ 20″.

The bank of this tank was eroded and its slopes washed out by the floods of 1872 and 1874, the irrigation sluice is in need of repairs, and the existing opening at the south end of the bund is inadequate to discharge the surplus.

The estimate provides for raising and repairing the bund, planting tank grass up to F.T.L., repairing the irrigation sluice, and extending the existing escape, and planting the whole with grass.

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It is observed that the proposed lengths of escapes are somewhat more than is absolutely necessary. As however it is not intended to expend much money upon them, the extra safety from these bye-washes will be advantageous.

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.
						RS.	RS.
Taiyur Tank Group.	9	Kumili Nattary Tank..	Repairing bund and sluice and extending and planting the escape with grass.	Irrigation.	Repairs ..	260	260
	10	Kumili large Tank ..	Repairing bund and sluice.		Repairs ..	275	275
			Rough stone escape ..		Original Works.	65	65
	11	Kolattur Porur Tank..	Repairing bund, sluice and weir and forming an escape planted with grass.		Repairs ..	305	305
	12	Murugamangalam Tank	Repairing bund and sluice and extending and planting the escape with grass.		Do. ..	195	195

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

27th October 1877.

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

No. 16. ORDER THEREON, 5th November 1877, No. 461 I.

THE following estimates for Irrigation Works in the No. 3 or Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his No. 220 I, dated 27th October 1877. Memorandum marginally noted are sanctioned:—

HEAD OF SERVICE—IRRIGATION.

Name of System or Group.	Name of Tank.	Provision of Estimate.	Class.	Amount.	Irrigation Register Number.
				RS.	
Taiyur Tank Group.	Kumili Nattary Tank.	Repairing bund and sluice and extending and planting the escape with grass.	Repairs	260	246 I.
	Kumili large Tank.	Repairing bund and sluice.	Do.	275	1 } 247 I.
		Rough-stone escape ...	Original Works.	65	2 }
				340	
	Kolattur Porur Tank.	Repairing bund, sluice and weir, and forming an escape planted with grass.	Repairs... ...	305	248 I.
	Murugamangalam Tank.	Repairing bund and sluice and extending and planting the escape with grass.	Do.	195	249 I.

2. These sanctions are registered as shown above.

(True Extract.)

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

13/11

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

Exd. T. O'Connor.
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Revenue Departt

No 4770

IRRIGATION.
ACCOUNT.

Govt. of {1877} Madras.

PUBLIC WORKS.

To

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

Dated November 5th

Recd. 13 November Encl.

G. O., 5th November 1877, No. 461 I.

Dr Mrs

NOVEMBER.

Nos. 15-16.

Taiyur Tank Group, Chingleput District.
—Sanctions estimates for repairs of certain tanks of the

No 6350
Comm.d to the
Board of Revenue
14: Nov/77

9 T. 4th of Revenue 15-11-77