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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

REVENUE DEPARTMENT

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4239/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

17th July 1877, No. 176 I.

Irrigation.

Account.

Read the following paper:—

No. 96. No. 92 I.

Note by the Chief Engineer for Irrigation.

Dated 22nd February 1877, No. 184. The following estimates from the Tinnevelly Range are forwarded by the Officiating District Engineer, Tinnevelly, with his letter marginally noted:—

Pulithevan Tank Group.

Taluq.	Village.	Work.	Amount.
			Rs.
Ottapedaram	Kulianallur	Kunavankulam tank and channel	710
		Sevelkulam tank ...	295
		Pulithevankulam tank.	205
		Total ...	1,210

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.	RS.
Pulitheran Tank Group.								
Kunavankulam tank and channel.	84	472	278	357	...	147	563	51·0
Sevelkulam tank	24	140	92	142	...	...	295	64·1
Pulithevankulam tank	19	104	59	100	...	...	205	69·5
Total ...	127	716	429	599	...	147	1,063	56·4

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.		
	sq. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	No.
Kunavankulam tank and channel	0·4	243	60	Nil. W. 42 E. 300	Nil. 42 300	4·91 5·35	3·41 3·85 Not stated.	6·0 259·2 2,351·4	None 3
Sevelkulam tank	2	721	..	E. 300 Natural.	300	4 5 & 3	1·75 Not stated.	2351·4	4
Pulithevankulam tank	2	721	..	Natural.		4·5	1·25	All.	

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.—Calinguiah with dam stones. W.—Weir with over fall. E.—Escape at ground level. B.—Bund of tank.

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

Kunavankulam.—This tank receives its supply from a jungle stream across which there is a small masonry anicut. This has been turned by a branch of the stream. In the channel from the anicut to the tank there is a surplus weir, but no means of surplusing exist in the tank itself.

The estimates submitted are for—

(1.) Raising north wing of the masonry anicut and closing the breach or "oday" which has turned the work.

(2.) For raising the wings of the surplus weir in the channels sufficiently to effectively protect the banks.

(3.) Repairing the banks of tank and channel and widening the latter in parts.

(4.) Constructing a surplus weir 42 feet length of crest in the tank. The estimates are recommended for sanction.

This tank is the highest of a group of five. Its surplus passes into the Nochikulam, which the District Engineer states "requires no repair." The surplus of the Nochikulam passes to the Puthukulam, a Zemindary tank, with reference to which the District Engineer reports "an estimate has been sent to the Collector for sanction from Zemindary funds on 17th January 1877."

The Savelkulam is the fourth tank of the group. Discharge of its surplus is stated to be sufficiently provided for by a natural escape of 300 feet in length at one end of the bund. The estimate now submitted provides for raising the bund to 4½ feet above F.T.L. for 3,100 feet in length and to 3 feet above F.T.L. for 300 feet, and also for some petty repairs to the irrigation sluice. It is not necessary with a tank of this class to allow a margin of about 26 inches at one part and of 44 inches elsewhere above M.W.L., the lesser margin will suffice, and the bund with such ample means of disposing of surplus may be 3 feet above F.T.L., reducing the estimate to Rupees 115.

The fifth and terminal tank of the group is the Pulithevankulam. In the report it is stated to be the sixth of a series, but the sketch map and other papers show that it is really only the fifth.

It is an insignificant tank, and it was suggested to the District Engineer that it might be as well to abandon it as a reservoir and to give up its bed to cultivation, supplying it and the land now watered by it from the next higher tank of the group. He, however, considers it advisable to maintain it, and the estimate submitted and recommended for sanction provides for repairing the bund, raising it to 4·5 feet above F.T.L., and repairing its irrigation sluice. The discharge of surplus is stated to be

efficiently provided for by a natural escape at one end of the bund. It appears to be probable that it is unnecessary to raise this bund to a higher level than 3 to 3½ feet above F.T.L.

FORT ST. GEORGE,
6th July 1877.

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

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

No. 97. ORDER THEREON, 17th July 1877, No. 176 I.

THE following estimates for Irrigation Works in the Tinnevelly Range, Tinnevelly District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

No. 92 I of 6th July 1877.

Irrigation.

	Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural Main Head, Irrigation.	Amount	Irrigation Register No.
Pulitheran Tank Group.	Kunavankulam tank and channel.	Repairing tank, channel, anicut, sluice and weir.	Repairs ...	Rs. 563	1 } 99 I.
		Weir	Original Works.	147	2
	Sevelkulam tank ...	Repairing bund and sluice ...	Repairs ...	115	100 I.
	Pulithevankulam tank.	Do. do. ...	Do. ...	205	101 I.

2. These sanctions are registered as shown above.

(True Extract.)

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

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

Exd. E. C. Shunker.

7 Spare Copies

No 8473

TRUCATTON
ACCOUNT

Coll. of Customs, Mauritius.

PUBLIC WORKS.

To

The District Engineer,
Tunkyville

&c., &c.

Dated 30 July 1877.

Sir,

I have the honor to transmit herewith, for your information, the accounts of the undermentioned Public Works Fund Chest, Thursday, February 1st, 1877, to Saturday, July 28th, 1877, inclusive, with vouchers, and two abstracts of the same.

I have, &c.,

Lodged

JULY.

Nos. 3847.