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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

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*Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,426.*

Read the following:—

No. 180-W.

No. 161.

Note by the Chief Engineer for Irrigation.

The following estimates from the Sermadevi Range are forwarded by the
No. 29, dated 9th May 1876. Officiating District Engineer, Tinnevely,
with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
			RS.
Ambasamudrum ...	Vickramasingapuram.	Singaperumal Tank ...	180
Do. ...	Alwarkurechi ...	Odapun Tank ...	420
Tenkasy ...	Nelagram ...	Pasupathiperi Tank ...	810
Do. ...	Kulasagaraputti ...	Kulasagaraperi Tank ...	1,280

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 5 years.	Highest Revenue 5 years.	OUTLAY.			
					During the previous 4 years.	PROPOSED.		
						Capital.	Revenue.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Singaperumal Tank ...	52	157	133	133	Nil.	...	180	
Odapun Tank ...	16	90	152	152	...	...	420	
Pasupathiperi Tank ...	38	285	294	297	...	...	810	
Kulasagaraperi Tank...	121	521	521	600	...	...	1,280	

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 Sec.	Tanks above.
		per Catchment Second.	per Channels Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Singaperumal Tank ...	...	...	28.62	Not stated.	Not stated.	Not stated.	Not stated.	Not stated.	Nil.
Odapun Tank ...	...	...	60.00	Nil.	Nil.	3.0	2.0	...	...
Pasupathiperi Tank ...	...	...	38.67	Nil.	Nil.	4.5	3.5	...	...
Kulasagaraperi Tank ...	2	711	67.00	Nil.	Nil.	3.75	3.0	...	...
				W 36	36	3.75	1.75	500.9	

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.—Calingalah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank.

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

Singaperumal Tank.—Repairing the bund and sluice.

Odapun Tank.—Raising the bund and repacking the revetment.

Pasupathiperi Tank.—Raising and repairing the bund, and constructing an irrigation sluice.

Kulasagaraperi Tank.—Raising and repairing the bund, and also repairing the weir.

Whereas in the case of the first three tanks no weirs exist or have been provided for, it is explained in the reports that ample means of disposing of surplus over rock or hard gravel exist and may be safely continued.

4. No plans accompany these estimates, but without longitudinal and cross sections of the bunds the quantity of earth required cannot well be estimated, and certainly for the three last tanks on the list such data are necessary.

The revetment for the Kulasagaraperi tank should be pitched at a slope of 45° with a backing 9 inches thick of gravel and a foundation of broken stone. The stones need not be squared as shown in the sketch to the specification. The weir should be of sufficient length to discharge the surplus irrespective of the aid of the vents, unless indeed a supplementary escape can be formed at the flank of the bund. This question should be considered and dealt with before the repairs are taken up.

The District Engineer should be reminded that the instructions already issued require that tanks should, as far as practicable, be dealt with in groups having a natural connection, and that all considerations of revenue and expenditure should extend over the whole group.

With reference to rates it is to be remarked that the charge of Annas 8 per cubic yard for rebuilding the Odapun tank revetment with the old material is too high, judging from experience in other localities, and a reduction should be made.

The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several heads of account involved:—

Name of Tank.	Item of Estimate.	FUND.			Total for each Tank, &c.
		Capital Ordinary.	Ordinary Agricultural.	Repairs.	
		Rs.	Rs.	Rs.	Rs.
Singaperumal Tank	Repairing the bund and sluice	...	...	180	180
Odapun Tank	Raising the bund and repacking the revetment	...	...	420	420
Pasupathiperi Tank	Raising and repairing the bund	...	...	670	670
	Constructing an irrigation sluice	...	140	...	140
Kulasagaraperi Tank	Raising and repairing the bund and also repairing the weir	...	...	1,280	1,280

OOTACAMUND,
7th September 1876.

(Signed) A. DEC. SCOTT, Major, R.E.,
Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,426.

No. 162. ORDER THEREON, 13th September 1876, No. 2,426.

IRRIGATION, No. 20.
Account.

No. 180-W, dated 7th September 1876.

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

Name of Work.	Item of Estimate.	Fund.	Amount.	Irrigation Registry No.
Singaperumal Tank	Repairing the bund and sluice	Ordinary Agricultural Repairs.	Rs. 180	141-I.
Odapun Tank	Raising the bund and repacking the revetment	Do. do.	420	142-I.
Pasupathiperi Tank	Raising and repairing the bund	Do. do.	670	143-I.
	Constructing an irrigation sluice	Do. Original Works.	140	2
Kulasagaraperi Tank	Raising and repairing the bund, and also repairing the weir	Do. Repairs	1,280	144-I.

2. These sanctions are registered as shown above.

(True Extract.)


Colonel,
Offg. Under Secy. to Govt., P.W.D.

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

Exd. A. Grubert.

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To

THE DISTRICT ENGINEER,
TINNEVELLY,
&c., &c., &c.

Dated September 13th.

Issued

Recd.

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Encl.

G. O., 13th September 1876, No. 2,426.

SEPTEMBER.

Nos. 161-162.

Tanks, Tinnevely District.—Estimates for
the repairs and improvements to certain
sanctioned.

No. 2308

can be indicated to the P. O.

Recd.

MADRAS RECORD OFFICE