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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

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Dr

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*Proceedings of the Madras Government, Public Works Department,
28th July 1876. No. 1,923.*

Read the following:—

No. 111-W.

No. 500.

Note by the Chief Engineer for Irrigation.

THE following estimates from the No. 1 or Northern Range are forwarded by the
No. 3, dated 1st April 1876. Officiating District Engineer, Tinnevely,
with his letter marginally noted:—

Talug.	Village.	Work.	Amount.
Streevelputhur ...	Kunnur ...	Shenkulam Tank ...	Rs. 715
Do. ...	Maraneri ...	R. No. 3, V Tank ...	520
Sattur ...	Mudukalankulam ...	Pennaykulam Tank ...	1,470
Do. ...	Verduputti ...	Kalayenkulam Tank ...	560

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 5 Years.	Highest Revenue for 5 Years.	OUTLAY.			
					Laying the pre-vious 4 years.	PROPOSED.		
						Capital.	Revenue.	Average Annual Portion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Shenkulam Tank ...	76	567	625	733	Nil.	...	715	22-68
Maraneri Tank ...	62	211	198	235	Nil.	280	240	52-53
Pennaykulam Tank ...	84	649	516	616	Nil.	550	890	56-97
Kalayenkulam Tank ...	61	486	440	450	160	...	560	32-73

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.
		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.		
Shenkulam Tank ...	1	562	108	Nil.	Nil.	Not stated.	0-0	Nil.	
				W 40	58	4'5	2'5	531'1	
Maraneri Tank ...	1	562'5	...	K 21'75	Nil.	Not stated.	0-0	Nil.	
				W 56	74	3'0	1'5	415'8	
				K 21	32	Not stated.	665'9	Nil.	
Pennaykulam Tank ...	3'5	1,296	...	K 37'5	98	4'5	2'0	1301'5	
				W 98	38'5	Not stated.	636'8	Nil.	
Kalayenkulam Tank ...	1'5	736'8	...	K 45	45	4'5	2'25	785'6	
				W 45	45	4'5	2'25	785'6	

NOTE.—The proposed dimensions of escapes and heights of bund are entered in large type. The existing dimensions in small type. The following abbreviations are used:—K.—Kalingulah 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:—

Shenkulam Tank.—Raising and repairing the bund, extending the irrigation sluice, and constructing a surplus outlet partly weir and partly kalingulah.

Maraneri Tank.—Raising and repairing the bund, repairing the sluices, revetting a portion of the bund with new stones, and constructing a surplus outlet partly weir and partly kalingulah.

Pennaykulam Tank.—Raising and repairing the bund, repairing the sluice rebuilding an irrigation sluice, and extending the body wall of the kalingulah and converting it into a weir.

Kalayenkulam Tank.—Raising and repairing the bund, repairing the kalingulah and converting it into a weir.

4. Surplus weirs should be of sufficient length to dispose of maximum flood discharge independently of any vents below crest level. Such vents may be given to the extent necessary for irrigation purposes, but unless the circumstances are peculiar, as for instance where room for a long weir is not available, vents should not be provided for the discharge of surplus when the working of such openings must be left to villagers.

5. The Shenkulam tank surplus weir should be 70 feet long instead of 40 feet. It may be of the form shown in design No. 5, Circular No. 67, and it should be placed, if possible, where the ground is not more than one foot below F. T. L. The amount, Rupees 255, of the estimate will more than suffice.

6. The Maraneri tank weir should be of the same kind, and the crest should be 80 feet long.

7. The design of the Mudukalankulam Pennaykulam weir is suitable if the rock be such as to stand a 6-feet overfall, and if the weir cannot conveniently be placed where rock 1 to 2 feet below F. T. L. is to be found. The sluice design does not conform to the requirements of Circular No. 35. It should be modified as shown on the plan, and the increased cost will be about 80 Rupees, raising the total to Rupees 245.

8. 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.	Items of Estimate.	FUND.		Total for each Tank, &c.
		ORDINARY—AGRICUL- TURAL.		
		Original Works.	Repairs.	
		RS.	RS.	RS.
Shenkulam Tank	Raising and repairing the bund, &c.	...	460	715
	Constructing a surplus weir	255	...	
Maraneri Tank	Repairing bund and sluices	...	240	520
	New revetment	80	...	
Pennaykulam Tank	Constructing a surplus weir	200	970	1,550
	Repairing the bund and one sluice and rebuilding another sluice.	...	...	
Kalayenkulam Tank	Extending surplus weir	580	...	560
	Repairing the bund and removing the dam stones of Kalingulah, &c.	...	560	

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

Proceedings of the Madras Government, Public Works Department,
28th July 1876. No. 1,928.

No. 501.

ORDER THEREON, 28th July 1876, No. 1,928.

IRRIGATION, No. 55.

Account.

No. 111-W, dated 20th July 1876.

THE following estimates for Irrigation Works in the No. 1 or Northern 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.
		Ordinary	Agricultural.		
				RS.	
Shenkulam Tank	Raising and repairing the bund, &c.	Repairs	...	460	1 } 76 L.
	Constructing a sluice	Original Works	...	255	
Maraneri Tank	Repairing bund and sluices	Repairs	...	240	1 } 77 L.
	New revetment	Original Works	...	80	
Pennaykulam Tank	Constructing a surplus weir	Repairs	...	200	3 } 78 L.
	Repairing the bund and one sluice and rebuilding another sluice.	Original Works	...	970	
Kalayenkulam Tank	Extending surplus weir	Repairs	...	580	2 } 79 L.
	Repairing the bund and removing the dam stones of kalingulah, &c.	Original Works	...	560	

2. These sanctions are registered as shown above.

(True Extract.)

[Signature]
Colonel,
Offg. Under Secy. to Govt., P.W.D.

To the District Engineer, Tinnevely.

„ Collector of Tinnevely.

„ Chief Engineer for Irrigation.

„ Examiner of Public Works Accounts.

„ Revenue Department.

Exd. W. H. French.

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To

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

Dated July 28th.

Issued

Recd. 20 Aug 1876 Encl.

G. O., 28th July 1876, No. 1,928.

JULY.
Nos. 500-501.

Tanks, Tinnevely District.—Estimates for
the repairs of certain —, sanctioned.

No 2007
Communicated to the District Engineer

23 August 1876

DEPARTMENT

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