

(1) Number of pages 6

(2) Date of repair 12.3.70

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Rev DEPARTMENT

G.O. No. 2184
B.P. No.

Press
Mis.

Dated 19.1.876

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2184

*Proceedings of the Madras Government, Public Works Department,
24th August 1876. No. 2,245.*

Read the following:—

No. 144-W.

No. 565.

Note by the Chief Engineer for Irrigation.

THE following estimates from the Poloor Range are forwarded by the Officiating
District Engineer, North Arcot, with
his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Poloor	Veeraloor	R. No. 108, V. Poothary tank	Rs. 1,332
	Do.	108, V. Large do.	1,813
	Sengapoothoor	74, V. Tank	1,245
	Sumbadaventhangle	107, V. do.	392
	Sengonum	52, V. do.	1,840

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.			
					During the previous 4 Years.	PROPOSED.		
						Ordinary Agricultural.		
						Original Works.	Repairs.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS. Per cent.
Veeraloor Poothary tank	93	465	325	Not stated.	Nil.	350	1,023	85.0
Do. Large	133	517	404			493	1,330	89.7
Sengapoothoor	116	499	487			293	950	61.1
Sumbadaventhangle	40	153	147			92	300	53.3
Sengonum	182	678	652			540	1,200	56.4
Total	564	2,312	2,015	...	...	1,769	4,903	66.2

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged as M.T.L. per Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
		C. FT.	C. FT.	FT.	FT.	FT.	FT.		
Veeraloor Poothary Tank	4	1,417	...	E 81	81	2.55	0.55	640	1
Veeraloor Large Tank	3	1,170	...	E 150	150	4.50	2.50	1,176	Not stated.
Sengapoothoor Tank	1.5 to 2.0	800	...	E 120	120	4.50	2.50	936	
Sumbadaventhangle Tank	...	354	...	E 70	70	1.43	0.00	550	...
Sengonum Tank	3	1,170	...	E 90	90	4.50	2.50	702	...
				E 15	15	2.44	0.44	115	Nil.
				E 36	36	4.50	2.50	280	...
				E 86	86	2.00	0.00	230	...
				E 120	120	4.50	2.50	936	...

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. R.—Revenue numbers. V.—Village.

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

Veeraloor Poothary Tank.—Raising and repairing the bund, closing breaches, repacking stone revetment, reconstructing two irrigation sluices, and constructing a masonry escape. The earthwork rates are high. A great deal of the work can be done for less than 1 Anna a cubic yard, and the average should not be much over 1 Anna. The repacking of stone revetment is not absolutely necessary, and should be postponed except at the breach. If the anticipations of increased revenue are fulfilled, it may be proper hereafter to spend more money.

Veeraloor Large Tank.—Raising and repairing the bund, repacking the stone revetment, raising the revetment with new stones, constructing a masonry escape and an irrigation sluice. The proposed new stone revetment should be postponed until it can be shown that a material increase of revenue has resulted from the other work provided for. The earthwork rates are much too high.

Sengapoothoor Tank.—Raising and repairing the bund, constructing a masonry escape and an irrigation sluice. The rates for earthwork appear to be exorbitant. The bund is not high, the soil is stated to be light, so 1 Anna a cubic yard will be ample. The repair estimate has been reduced to Rupees 950.

Sumbadaventhangle Tank.—Raising and repairing the bund, and constructing a loose stone escape. The rate for earthwork is excessive, and the repair estimate has been reduced to Rupees 300.

Sengonum Tank.—Raising and repairing the bund, repairing the stone revetment, constructing a masonry escape and irrigation sluice. The repacking of the revetment, unless deemed by the District Engineer to be essential, should be postponed. The rates for earthwork are much too high. The quantity of work to be done is small, and should be done by the villagers. The discharges from catchment basin are probably overestimated, and the proposed escapes will therefore do.

4. The expenditure proposed for the Veeraloor Poothary Tank is considerable when compared with its average revenue. The District Engineer, however, explains that there is land under it which can be irrigated in addition to the so-called ayacut.

A similar observation applies to the case of the Poothary large tank; here the villagers promise a large increase to the revenue in the event of the improvements and repairs being carried out.

The District Engineer also supports the claim of the Sengonum tank to an outlay on it of nearly three years' average revenue by the plea that the irrigation is susceptible of improvement. The grounds for this statement are not clear. It is mentioned that the revenue is at present at the rate of Rupees $3\frac{1}{2}$ per acre of ayacut amounting to 180 acres, but that the full area should, under the existing circumstances of supply to the tank, be cultivated, and yield Rupees 5 per acre. Nevertheless, the ayacut assessment is entered in the report at Rupees 678. In the present instance the full charge or ayacut assessment may possibly be $5 \times 182 =$ Rupees 910, in which case there is of course a probability of a direct return for the expenditure proposed.

5. There is no record apparently of previous outlay on any of the tanks in the list—paragraph 2 of this note—and the work appears to be necessary.

6. The tanks for which estimates are sent up do not seem, as regards the North Arcot District, to be dealt with by groups. It is essentially necessary that this should be attended to, in order that a comprehensive view may be obtained of the circumstances whether in a financial or geographical point of view.

The District Engineer must make arrangements to this end; except in the case of emergent repairs estimates should not be forwarded unless they provide for the requirements of a group, and if forwarded, they will have to be returned.

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 ORDINARY, AGRICULTURAL.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Veeraloor Poothary Tank	Repairing the bund and closing the breaches	...	685	1,382
	Irrigation sluices	...	333	
	Masonry escape	359	...	
Veeraloor Large Tank	Repairing the bund and revetment	...	1,330	1,813
	Masonry escape	315	...	
	Irrigation sluice	163	...	
Sengapoothoor Tank	Repairing the bund	...	950	1,245
	Masonry escape	250	...	
	Irrigation sluice	65	...	
Sumbadaventhangle Tank	Repairing the bund	...	300	392
	Escape	92	...	
	Repairing the bund and revetment	...	1,300	
Sengonum Tank	Masonry escape	270	...	1,540
	Irrigation sluice	270	...	

OOTACAMUND,
19th August 1876.

(Signed) A. DE C. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 566.

ORDER THEREON, 24th August 1876, No. 2,245.

IRRIGATION, No. 58.
Account.

No. 144-W, dated 19th August 1876.

THE following estimates for Irrigation works in the Poloor Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum originally noted, are sanctioned:—

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural.	Amount.	Irrigation Register No.
			RS.	
Veeraloor Poothary Tank	Repairing the bund and closing the breaches	Repairs	685	124-I.
	Irrigation sluices	Do.	333	
	Masonry escape	Original Works	359	
Veeraloor Large Tank	Repairing the bund and revetment	Repairs	1,330	125-I.
	Masonry escape	Original Works	315	
	Irrigation sluice	Do.	163	
Sengapoothoor Tank	Repairing the bund	Repairs	950	126-I.
	Masonry escape	Original Works	250	
	Irrigation sluice	Do.	65	
Sumbadaventhangle Tank	Repairing the bund	Repairs	300	127-I.
	Escape	Original Works	92	
	Repairing the bund and revetment	Repairs	1,300	
Sengonum Tank	Masonry escape	Original Works	270	128-I.
	Irrigation sluice	Do.	270	

Proceedings of the Madras Government, Public Works Department,
24th August 1876. No. 2,245.

2. These sanctions are registered as shown above.

(True Extract.)

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

To the District Engineer, North Arcot.
,, Collector of do.
,, Chief Engineer for Irrigation.
,, Examiner of Public Works Accounts.
,, Revenue Department. ✓

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PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
NORTH ARCOT,
&c., &c., &c.

Dated August 24th.

Issued

Recd.

Sept 19th

Encl.

G. O., 24th August 1876, No. 2,245.

AUGUST.

Nos. 565-566.

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

Sh. 2134
Communicated to the
of Arcot.

19 Sept 1876

MADRAS RECORD OFFICE