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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

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838

Proceedings of the Madras Government, Public Works Department,
9th February 1877. No. 456.

Read the following:—

No. 89 W.

No. 270.

Note by the Chief Engineer for Irrigation.

The following estimates from the Poloor Range are forwarded by the District Engineer, North Arcot, with his letter No. 1,761, dated 31st August 1876. marginally noted:—

Taluk.	Village.	Work.	Amount.
Wandewash	Theroomboondy	V. large and Conantangle tanks	Rs. 1,766
Do.	Poorooosay	V. Cullary tank	980
Do.	Peroongadapoothoor	V. tank	915
Do.	Ragoonathasamoodram	V. large tank	1,480
Do.	Namily	V. tank	485
Total			5,560

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 five years.	Highest Revenue for five years.	OUTLAY.			
					During the previous four years.	PROPOSED ORDINARY AGRICULTURAL IRRIGATION.		Average annual proportion of Charges to Revenue.
						Original Works.	Repairs.	
	ACRES.	RS.	RS.	RS. Not stated.	RS.	RS.	RS.	PER CENT. RS.
Theroomboondy large and Conantangle tanks	78	474	531	Not stated.	NIL.	413	1,287	64.0
Poorooosay Cullary tank	66	420	413	..	..	155	825	47.4
Peroongadapoothoor tank	44	181	168	..	..	425	490	108.9
Ragoonathasamoodram large tank	126	647	827	..	..	210	1,270	35.7
Namily tank	36	192	208	..	158	115	370	61.8
Total ..	350	1,914	2,147	Not stated.	158	1,318	4,242	53.2

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.		
Theroomboondy large tank ..	Sq. M. .5	C. FT. 354	C. FT. 75	FT. E. 20	20	FT. 3.27	1.27	C. FT. 156.7	No. NIL
Do. Conantangle tank ..	.5	354	50	E 48	48	4.50	2.50	376.2	..
Poorooosay Cullary tank ..	.5	354	50	E 40	40	3.20	1.20	313.5	..
Peroongadapoothoor tank ..	1.5	737	..	E 48	48	4.50	2.50	376.2	..
Ragoonathasamoodram large tank.	1	562	..	E 24	24	2.40	0.40	188.1	..
Namily tank	1	562	70	E 42	42	4.50	2.50	329.1	..
				E 60	60	2.84	0.34	470.2	..
				E 80	80	4.50	2.50	627.0	..
				E 50	50	2.65	0.65	391.6	..
				E 25+35	60	4.50	2.50	470.2	..
				E 24	24	2.80	0.30	188.1	..
				E 60	60	4.50	2.50	470.2	..

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

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

Theroomboondy large Tank and Theroomboondy Chantangle Tank.—These two tanks irrigate and belong to one system. The provision made in the former is for raising and repairing the bund, repacking the old stone revetment, and raising where needed with new stones to a uniform height for the protection of the bund, also for reconstructing an Irrigation sluice and for constructing a dry stone escape. The provision made in the estimate for the latter tank is for raising and repairing the bund, turling, repairing the Irrigation sluice, and constructing a dry stone escape.

Pooroosay Cullary Tank.—Raising and repairing the bund, turling, reconstructing the Irrigation sluice, and extending the dry stone escape.

Peroongadapoothoor Tank.—Raising, repairing and turling the bund, replacing the damaged pot sluice by a masonry Irrigation sluice, and constructing a dry stone escape.

Ragoonathasamoodram large Tank.—Raising, repairing and turling the bund, rebuilding the rough stone revetment, clearing brushwood, reconstructing an Irrigation sluice, and constructing two dry stone escapes.

Namilly Tank.—Raising, repairing, and turling the bund, and constructing a dry stone escape.

4. The head walls of the Theroomboondy large tank and the Pooroosay Cullary tank irrigation sluices should be carried up to full tank level, and a pole should be attached to the plug and should work through guide stones.

The depth of water above the plug-hole is in both cases sufficiently great to render this appliance necessary.

5. The discharge through the plug holes with the smallest head of water at which it is intended to work them without the aid of the lower vent, and the discharge of the lower vent with the water at its lowest working level should always be given on the plans of irrigation sluices as well as the acreage to be supplied. The last only is entered on the plans under review.

6. Plans and sections of the proposed escapes should have accompanied the estimates, and the nature of the soil in each case should have been stated.

7. The treatment of tanks collectively by groups naturally connected has often been indicated as embodying an important principle, which is to be constantly kept in view. The connection of these tanks with others is not adverted to; at the same time it is not positively stated that they are isolated.

8. The necessity for the execution of the work in each case is made out for the tanks individually, but it is not known whether there are tanks above or below which affect or are affected by the condition of these estimated for. It is time that in North Arcot the renovation and improvement of this class of Irrigation works should be carried out on more comprehensive principles. It is not necessary to delay the execution of the necessary repairs in order that more complete information may be supplied; but it is very desirable that estimates in course of preparation throughout the district should be framed so as to include at once all that is necessary for the groups of which individual members have been inspected.

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9. There are very remarkable discrepancies in the area of irrigation (actual) per square mile of drainage. Taking the acreage actual to be in direct proportion to the average revenue, these come to, for—

No. 1	...	87	acres to the square mile,
" 2	...	129	do.
" 3	...	27	do.
" 4	...	155	do.
" 5	...	39	do.

and these results tend to discredit the correctness of the areas of the catchment basins. At any rate the District Engineer should have specially explained to what circumstances such great differences are due. It is a very important part of the duties of a District Engineer to look into such matters and to satisfy himself of the correctness and suitability of arrangements proposed for the reformation of Irrigation works, and of course the data on which proposals may be based should be approximately correct or they will be only misleading.

10. 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, IRRIGATION.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Theroomboondy large tank	Repairing the bund	208	430	1,700
	New stone revetment to bund	...	337	
	Reconstructing an Irrigation sluice	115	...	
	Dry stone escape	...	520	
Theroomboondy Chantangle tank	Repairing the bund and Irrigation sluice	90	...	980
	Dry stone escape	...	515	
Pooroosay Cullary tank	Repairing the bund	...	310	915
	Reconstructing an Irrigation sluice	155	...	
Peroongadapoothoor tank	Extending the dry stone escape	...	490	1,480
	Replacing the damaged pot-sluice by a masonry Irrigation sluice	270	...	
	Dry stone escape	155	750	
Ragoonathasamoodram large tank	Repairing the bund	...	520	485
	Rebuilding an Irrigation sluice	210	...	
Namilly tank	Two dry stone escapes	...	370	...
	Repairing the bund	115	...	
	Dry stone escape	...	...	

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

FORT ST. GEORGE,
30th January 1877.

To the Secretary to Government, Public Works Department.

No. 271. ORDER THEREON, 9th February 1877, No. 456.

ACCOUNT.
Irrigation, No. 30.

No. 89 W, dated 30th January 1877.

THE following estimates for Irrigation works in the Poloor Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned, subject to such revision as may be necessary with

reference to the foregoing remarks of the Chief Engineer for Irrigation.

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Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Register No.
Theroomboondy large tank	1 Repairing the bund	Repairs	420	1
	2 New stone revetment to the bund.	Original Works	208	2
	3 Reconstructing an irrigation sluice.	Repairs	537	3
	4 Dry stone escape	Original Works	115	4
Do. Conantangle tank	1 Repairing the bund and irrigation sluice	Repairs	520	1
	2 Dry stone escape	Original Works	60	2
Poozocay Cullary tank	1 Repairing the bund	Repairs	615	1
	2 Reconstructing an irrigation sluice.	Do.	310	2
Perongadapoothoor tank	3 Extending the dry stone escape.	Original Works	155	3
	1 Repairing the bund	Repairs	490	1
	2 Replacing the damaged pet-sluice by a masonry irrigation sluice.	Original Works	279	2
	3 Dry stone escape	Do.	165	3
Ragoonathasamoodram tank	1 Repairing the bund	Repairs	750	1
	2 Rebuilding an irrigation sluice.	Do.	520	2
	3 Two dry stone escapes	Original Works	210	3
Namily tank	1 Repairing the bund	Repairs	370	1
	2 Dry stone escape	Original Works	115	2

2. These sanctions are registered as shown above.

(True Extract.)

Am. Little

Lieut. Colonel, R.E.,

for Secretary to Government.

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

Exd. E. C. Shunker.

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PUBLIC WORKS.

No 1245

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

Dated February 9th.

Issued

Recd. 13 Feb 77

Encl.

G. O., 9th February 1877, No. 456.

FEBRUARY.
Nos. 270-271.

W 838

Comm. to the
Board of Revenue

15 Feb 77

Tanks, North Arcot District.—The estimates, aggregating Rupees 5,560, for repairs to certain —, sanctioned.

78 Bund of 16-2