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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

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*Proceedings of the Madras Government, Public Works Department,
9th March 1876.*

Read the following :—

No. 142.

No. 128. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Serooloor Range are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted :—
No. 4,115, dated 12th January 1876.

Taluq.	Estimate No.	Work.	Amount.
	187		RS.
Peonary	...	Chevootoopanapakam Tank ...	780
Do.	...	Arauce Nadoocooppum Tank ...	930
Do.	...	Vayalore Ooranumbadoo Tank ...	3,400
Do.	...	Tharooly Tank	250

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.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Chevootoopanapakam Tank ...	71	218	234	255	541	80	700	780
Arauce Nadoocooppum Tank ...	54	180	130	190	1,032	80	850	930
Vayalore Ooranumbadoo Tank ...	1,413	3,771	1,165	1,400	2,633	...	3,400	3,400
Tharooly Tank	53	112	115	120	41	...	250	250

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 Section.	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.
Chevootoopanapakam Tank ...	1	563	...	Not stated.	Not stated.	3	1	0.0	...
Arauce Nadoocooppum Tank ...	75	464	...	E 59	59	4.5	2.5	280.3	...
Vayalore Ooranumbadoo Tank...	2.5	1,036	...	E 12	12	2.5	2.5	62.2	...
Tharooly Tank	3.5	1,296	...	E 57	57	4.25	2.5	221.6	...
				...	...	2.625	2.875	0.0	...
				E 133	133	4.25	2.50	517.2	...
				...	...	...	...	0.0	...
				E 116	116	4	2	551.2	...

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

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

Chevootoopanapakam Tank.—This tank was breached in four places by the overflow of the Naranaveram river caused by a cyclone. The estimate provides for filling up

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the breaches, raising, sectioning, and turfing the bund, restoring the flood banks, and constructing a new third-class sluice.

Aranee Nadoocooppum Tank.—This tank was breached by a cyclone, and the inner slopes are reported to be much eroded. The estimate provides for filling up the breach, raising, sectioning, and turfing the bund, planting nanul grass, and constructing a new weir and a third-class sluice.

Vayalore Ooranumbadoo Tank.—This tank was breached in two places by a cyclone. The estimate provides for forming a permanent escape, sectioning the bund, turfing, and planting grass.

Tharooly Tank.—The estimate submitted for this tank provides for filling a breach, raising, sectioning, and turfing bund, and planting nanul grass.

4. The Chevootoopanapakum tank report for which a form has been provided by the Superintending Engineer has been very imperfectly rendered. Particulars for which space has been provided have not been properly filled up. It is necessary that in all such cases the estimates should be returned to the Range Officer for the supply of information so plainly called for in the first instance.

This tank is apparently an unprofitable one, as when the repairs now estimated for have been carried out five and a half years' average revenue will have been expended within a period of five years. Its proximity to a river liable to overflow its banks has no doubt been the cause of this excessive outlay.

The plan of the third-class sluice for the tank should be modified in accordance with the remarks made in the Note of the undersigned, No. 223, dated 21st February 1876, on the estimate forwarded with the Superintending Engineer's letter, No. 3,716, dated 2nd December 1875.

5. The Aranee Nadoocooppum tank sluice plan is subject to the alteration alluded in the Note referred to in paragraph 4, and the estimate should be revised accordingly.

The length of escape provided should be 70 feet.

6. The Vayalore Ooranumbadoo tank is to be provided with an escape 133 feet long, but that length is insufficient, as it is to be planted with grass, and it should be increased to 250 feet.

The irrigation area is stated in the report to be 89 acres, in the heading to the abstract estimate the ayacut is returned at 1,412 acres. This discrepancy should be explained, and if the larger area is correct the abnormally large supply from the catchment area ought to be accounted for.

7. The financial particulars given at the head of this Note respecting the Araneo and Vayalore tanks show a rate of expenditure during the past few years which should have been the subject of notice by the Range Officer. In particular it should have been explained why the considerable outlay on the latter in 1873-74 and 1874-75 failed to secure the work from subsequent injury the following year. Sanction to the estimate cannot be recommended till the additional information required has been furnished.

FORT ST. GEORGE,
2nd February 1876.

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

To the Secretary to Government, Public Works Department.

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No. 129. ORDER THEREON, 9th March 1876, No. 626.

IRRIGATION, No. 12.
Account.

The following estimates forwarded by the Superintending Engineer, Chingleput, are sanctioned:—

	Rs.
Register No. 40 I. of 1875-76.—Repairing the Chevootoopanapakum Tank. Revenue (Repairs)	700
Do. " 41 I. of " Do. the Aranee Nadoocooppum Tank. Do. do.	850
Do. " 42 I. of " Do. the Tharooly Tank. Do. do.	250

2. An early report should be furnished regarding the Vayalore tanks, and the designs for the sluices of Chevootoopanapakum and the Aranee Nadoocooppum tanks should be revised in accordance with the remarks of the Chief Engineer for Irrigation.

3. These sanctions are registered as shown above.

(True Extract.)

Comptroller Major-General, R.E.,
Secretary to Government.

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

Exd. S. T. Austin.

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