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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

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Dated	<u>2. 6. 1876</u>	196

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

Read the following :—

No. 44 W.

No. 158.

Note by the Chief Engineer for Irrigation.

The following estimates from the Serool Range are forwarded by the Superintending Engineer, Chingleput, with his marginally noted :—

Taluq.	Village.	Work.	Amount.
Trivellore	...	Poonapakum Tank	RS. 1,070
Do.	...	Dassucoopum "	275
Do.	...	Keelanoor "	1,635
Do.	...	Eacadoo Cullary Tank	440

2. The financial and hydraulic details of the Irrigation Works concerned are exhibited in the following statement :—

I.—Financial Details.

Name of Work.	Aysent Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
Poonapakum Tank	208	RS. 550	521	577	305	...	1,070	1,070
Dassucoopum "	28	106	112	133	50	...	275	275
Keelanoor "	478	1,604	1,712	1,812	106	...	1,635	1,635
Eacadoo Cullary Tank	433	954	305	385	675	...	440	440

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.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Poonapakum Tank	SQ. M. 8	C. FT. 2,250	C. FT. Not stated.	FT. E. 240	FT. 240	FT. 3.37	FT. 1.87	C. FT. 1,111	No. 1
Dassucoopum "	2	893	"	E. 365	365	4.5	3	1,690	"
Keelanoor "	5	1,644	"	E. 145	145	4.5	3	671	Not stated.
Eacadoo Cullary Tank	4	1,417	"	E. 268.5	268.5	4.5	3	1,243	"
				NIL	NIL	8.75	2.25	0.0	"
				E. 230	230	4	2.5	1,065	"

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 :—

Poonapakum Tank—Receives the surplus of the Eacadoo tank, draining about 8 square miles, and having only a natural escape over bad soil the ground is cut up during heavy rains; to remedy this it is proposed to construct an escape weir 365 feet

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in length protected with grass. The estimate also provides for sectioning and turfing the bund which was damaged by floods, and for repacking the stones of a portion of the revetment.

Dassucooppum Tank—Drains about 2 square miles, it has no masonry escape, but the surplus passes round the end of the bund with the help of a breach. The estimate provides for opening natural escapes at both ends of the bund (to prevent breaching), repairing tank sluice, which is much damaged and requires a new bund, and for sectioning and turfing the bund.

Keelanoor Tank—Drains about 5 square miles. It has a calingulah 78½ feet in length with a body wall 4½ feet high, this outlet is considered insufficient, and the estimate provides for the opening of a natural escape 190 feet in length, intended to discharge under a head of 18 inches, the estimate also provides for repairing the calingulah apron, the damaged sluice, and for sectioning and turfing the bund.

Eacadoo Cullary Tank—Has no regular escape, and breaches during heavy rains. The estimate provides for closing breaches, sectioning and turfing bund, forming an escape and repairing sluice.

4. Expenditure is proposed on the Poonapakum tank of Rupees 1,070, and with the previous four years' outlay the average annual expenditure will amount to 52 per cent. of the average revenue. This is not satisfactory, and probably a considerable proportion of the outlay will have been caused by neglect on the part of the villagers to attend to patching and petty repairs which are absolutely necessary, especially with such soil, in order to prevent embankments from being rapidly degraded by rain. After properly reducing the co-efficient in the case of this as of the next two tanks in the statement which are to be planted with grass, the discharge with the head allowed appears to be insufficient for the catchment area, but six inches additional depth may be allowed, and with this the proposed arrangements will probably suffice. For the reasons above detailed, the Eacadoo Cullary tank escape should be made 70 feet longer than is proposed.

5. 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.	Nature of Work.	HEADS OF ACCOUNT.			Total for each Tank, &c.
		Capital Ordinary.	Revenue. Extensions and Improvements.	Repairs.	
Poonapakum Tank	Repairing the bund	...	...	1,006	1,070
	Forming an escape planted with grass	...	64	...	
Dassucooppum Tank	Repairing the bund and sluice	...	...	244	275
	Forming an escape planted with grass	...	31	...	
Keelanoor Tank	Repairing the bund, calingulah, apron and sluice	...	...	1,575	1,635
	Forming an escape planted with grass	...	60	...	
Eacadoo Cullary Tank	Repairing the bund and sluice	...	...	405	440
	Forming an escape planted with grass	...	34	...	

26th April 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.

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

No. 159.

ORDER THEREON, 9th May 1876, No. 1,162.

IRRIGATION, No. 21.

Account.

No. 44 W, dated 26th April 1876.

The following estimates for Irrigation Works in the Serooloor Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned:—

Name of Tank.	Item of Estimate.	Fund.	Amount.	Irrigation Registry No.
Poonapakum Tank	Repairing the bund	Revenue I. B. Maintenance and Repairs.	1,006	28 I.
Do.	Forming an escape planted with grass	Revenue I. A. Extensions and Improvements.	64	28 I.
Dassucooppum Tank	Repairing the bund and sluice	Revenue I. B. Maintenance and Repairs.	244	29 I.
Do.	Forming an escape planted with grass	Revenue I. A. Extensions and Improvements.	31	29 I.
Keelanoor Tank	Repairing the bund, calingulah, apron and sluice.	Revenue I. B. Maintenance and Repairs.	1,575	30 I.
Do.	Forming an escape planted with grass	Revenue I. A. Extensions and Improvements.	60	30 I.
Eacadoo Cullary Tank	Repairing the bund and sluice	Revenue I. B. Maintenance and Repairs.	405	31 I.
Do.	Forming an escape planted with grass	Revenue I. A. Extensions and Improvements.	34	31 I.

2. These sanctions are registered as shown above.

(True Extract.)

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

To the District Engineer, Chingleput.

Collector of do.

Chief Engineer for Irrigation.

Examiner of Public Works Accounts.

Revenue Department.

Exd. S. T. Austin.

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DEPARTMENT