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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	1509	Press.
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Dated	15-3-1877	197 .

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1509
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*Proceedings of the Madras Government, Public Works Department,
6th March 1877. No. 770.*

Read the following:—

No. 129-W.

No. 139.

Note by the Chief Engineer for Irrigation.

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

Taluk.	Village.	Work.	Amount.
			RS.
Trivalore	Melvelagam	V. Tank	843
Do.	Nemmeli Agaram	V. Tank	1,120
		Total ..	1,963

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 IRRIGATION.		
						Original Works.	Repairs.	Average annual proportion of charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS. Per cent.
Melvelagam Tank	81	241	186	223	NIL.	330	513	90.6
Nemmeli Agaram Tank	154	492	399	537	..	210	910	66.1
Total ..	235	733	585	760	..	540	1,423	67.1

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.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	No.
Melvelagam Tank	2.0	893	.. {	NIL. E 219	NIL. 219	1.25 3.0	0.0 1.5	0.0 1,114.9	1
Nemmeli Agaram Tank	2.0	893	.. {	E 450 E 450	450 450	2.0 3.75	0.5 2.25	2290.9 2,290.9	..

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. V.—Village.

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

Melvelagam Tank.—This tank is supplied by the surplus of the Narthavady Tank situated in the Carvet Nugger Estate, which tank is reported to be in fair order.

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The bund of the Melvelagam Tank is low and weak. It is provided with one irrigation sluice which is insufficient. The tank has no surplusage work.

The estimate provides for raising and repairing the bund and for constructing an irrigation sluice and a rough stone escape.

Nemmel Agaram Tank.—This tank breached in 1874, and its bund is low and weak. It has one irrigation sluice. It surpluses over the natural surface of the ground beyond one end of its bund.

The estimate provides for—

- (1.) Raising and repairing the bund.
- (2.) Constructing an irrigation sluice at such a level as to irrigate by gravitation lands hitherto baled to.
- (3.) Paving the surface of the natural escape.

The length of the escape for the *Melvelagam Tank* need not as far as the information given shows be more than 180 feet, and the estimate for the work is reduced to Rupees 160.

The level of the natural surface of ground in rear of proposed irrigation sluice should have been shown on the plan. The returns of the rear wings should be at least 3 feet 9 inches long. The step up in the level of the foundations of floor between the front wings is not advisable, the foundation platform should be uniform in thickness for 10 feet in length, and then step up to the reduced thickness as shown on plan. For the *Nemmel Agaram Tank* 180 feet length of escape will be sufficient if spill from the river be excluded as it should be.

The remarks about the plan for the sluice for the Melvelagam Tank are applicable to the one for this tank excepting that in this case 3 feet for length of rear wing returns and 6 feet for length of extra thickness of foundation platform at front end of sluice will do.

It is noted that the Superintending Engineer has arranged for examination of the parts of the Corteliar, where overflow took place in 1874, injuring the tanks under notice with a view to embanking such places.

The estimates are recommended for sanction.

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.	
Melvelagam Tank	Raising and repairing the bund ..	RS. 210	RS. 513	823
	Constructing an irrigation sluice ..	100	..	
	Constructing a rough stone escape ..	..	910	
Nemmel Agaram Tank	Raising and repairing the bund ..	105	..	1,120
	Constructing an irrigation sluice ..	..	..	
	Converting the natural escape into a rough stone escape ..	105	..	

FORT ST. GEORGE,
28th February 1877.

(Signed) G. T. WALCH,
Acting Dy. 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,
6th March 1877. No. 770.

No. 140.

ORDER THEREON, 6th March 1877, No. 770.

IRRIGATION, No. 13.

Account.

No. 129—W, dated 28th February 1877.

THE following estimates for Irrigation Works in the Serulur Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Register No.
Melvelagam Tank	Repairing bund ..	Repairs ..	RS. 513	1
	Irrigation sluice ..	Original Works ..	210	2
	Rough stone escape ..	Do. ..	100	3
Nemmel Agaram Tank.	Repairing bund ..	Repairs ..	910	1
	Irrigation sluice ..	Original Works ..	105	2
	Rough stone escape ..	Do. ..	105	3

2. These sanctions are registered as shown above.

(True Extract.)

Wm. L. L. L.

Lieut.-Colonel, R.E.,
Secretary to Government.

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

Exd. E. C. Shunker.

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Revenue Department
No. 1767

Govt. of {1877} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER

CHINGLAPUT

&c. &c.

Dated March 6th.

Issued

Recd. - 4 - 15

Encl.

G. O., 6th March 1877, No. 770.

MARCH

Nos. 139-140.

Melvelagum and Nemmeli Agaram Tanks,
Chingleput District.—The estimates amount-
ing to Rupees 1,943 for repairs to —, sanc-
tioned.

No 1509

Comm. to the
Board of Revenue
15th

9 To Mr. H. G. Bannard 12-3-77