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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

REVENUE DEPARTMENT

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2893

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

6th November 1878, No. 897 I.

Irrigation.

Read the following papers:—

No. 32. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevely, to the Chief Engineer for Irrigation, dated Palamcottah, 4th July 1878, No. 47.

I HAVE the honor to forward for sanction the under-mentioned estimates for repairs to tanks in the Satur taluk of the Northern Division.

Two Estimates.
One Plan.

2. The necessity for these works is explained in the remarks at foot of the sheet of statistics attached to each estimate.

	RS.
1 Repairing the Metillapatti tank, estimate	610
1 Do. Vemboor Periyakulam tank, estimate	555

3. I have inquired and endeavored to ascertain the cause of the differences in acreage cultivated per square mile of catchment basin, but cannot obtain any satisfactory explanation, the only cause assigned being that under Vemboor Periyakulam the ryots apparently find it more profitable to cultivate the punjah land from wells.

No. 304 I.

No. 32-A. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the No. 1 or Northern Range are forwarded by the Officiating District Engineer, Tinnevely, with his letter marginally noted. No. 47, dated 4th July 1878. These tanks appertain to the group, of which the Vemboor Periyakulam tank is the terminal.

Taluk.	Village.	Work.	Amount.
Satur	Metillapatti	V. Periyakulam and Sirukulam tanks.	RS. 610
Satur	Vemboor	V. Periyakulam tank	555
		Total	1,165

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

I.—Financial Details.

Name of Work.	Acreage.	Assessment.	Average Revenue for five years.	Highest Revenue for five years.	During the previous four years.	OUTLAY.		
						Proposed		
						Ordinary Works.	Agricultural, Irrigation.	Average Annual Proportion of Charges to Revenue.
Metillapatti Periyakulam and Sirukulam tanks.	39	RS. 130	RS. 187	RS. 201	RS. 67	RS. 235	RS. 375	PER CENT. 72.4
Vemboor Periyakulam tank	19	86	143	170	115	160	395	93.7
Total	58	226	330	371	182	395	770	81.6

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.		MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.W.L. per Second.	Tanks above.	Area irrigated per Square Mile of Drainage.		
	Catchment per Second.	Channels per Second.			Total.	Effective.	Above F.T.L.	Above M.W.L.					
Mettila- patti. { Periyakulam tank. Sirukulam tank .. }	SQ. M.	C. FT.	O. FT.		FT.	FT.	FT.	FT.	C. FT.	NO.	ACRES.		
	1.25	352	..	{	E 108	108	Not stated.	846.5	846.5	None	{		
					E 108	108	4.50	2.50	846.5	846.5		1	
					E 108	108	Do.		846.5	846.5			
Vemboor tank. Periyakulam	3.5	768	..	{	C 28	8.5	{	Not stated.	369.3	{	2	9.0	
				S 16	16								
				W 78	78			4.50	2.50				741.2

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 overfall. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Surplus sluice vent area.

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

Metillapatti Periyakulam and Sirukulam Tanks.—The bunds of these tanks are low and weak and they were breached in December last and subsequently closed at an outlay of Rupees 67. The irrigation sluice of the Periyakulam tank is in a ruined state and needs to be reconstructed, but that of the Sirukulam tank only needs trifling repairs. Both tanks are provided with sufficient surplus works.

The estimate provides for—

1st.—Raising and repairing the bunds of the Periyakulam and Sirukulam tanks, and also for repairing the irrigation sluice of the latter.

2nd.—Constructing a masonry irrigation sluice to replace the ruined sluice in the Periyakulam tank.

Vemboor Periyakulam Tank.—The bund of this tank is low and weak and was breached in three places in December 1877, two of the breaches were closed and the

third only partially closed. The irrigation sluice is in good order. The existing calingulah which has two notches is of insufficient length and its body wall is very irregular, some portions being above M.W.L., while other parts are below F.T.L.

The estimate provides for—

1st.—Raising and repairing the bund.

2nd.—Converting the calingulah into a weir by removing and having the crest at a uniform height of F.T.L., and also for extending the work.

The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved:—

HEAD OF SERVICE—IRRIGATION.

Fund—Ordinary Agricultural.

Name of System or Group.	Distinguishing Number or Letter of Group.	Name of Tank or Channel.	Description of Work.	Main Head.	Class.	Amount of each Item.	Amount to be separately accounted for.
Vemboor Periyakulam tank group.	3	Metillapatti Periyakulam tank.	Constructing a masonry irrigation sluice.	Irrigation.	Original Works.	RS. 235	RS. 235
	2	Metillapatti Sirukulam tank.	Repairing bund		Repairs Do.	280	375
	1	Vemboor Periyakulam tank.	Repairing bund and sluice.		Do.	95	..
			Converting the calingulah into weir and extending the same.		Original Works.	160	160
			Repairing the bund		Repairs	395	395

FORT ST. GEORGE,
28th October 1878.

(Signed) P. MONTGOMERIE, Major, R.E.,
Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 33. ORDER THEREON, 6th November 1878, No. 897 I.

The following estimates for Irrigation works in the No. 1 or Northern Range, Tinnevely District, forwarded by the No. 304 I, dated 28th October 1878. Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned:—

Head of Service—Irrigation.

Name of System or Group.	Name of Tank.	Provision of Estimate.	Fund.	Amount.	Irrigation Register No.
Vemboor Periyakulam tank group.	Metillapatti Periyakulam tank.	Irrigation sluice	Original Works.	RS. 235	1
	Metillapatti Sirukulam tank.	Repairing bund	Repairs	280	2
		Repairing bund and sluice	Do.	95	..
				375	..
	Vemboor Periyakulam tank.	Converting calingulah into weir and extending the same.	Original Works.	160	1
		Repairing bund	Repairs	395	2

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4 PUBLIC WORKS DEPARTMENT, 6TH NOVEMBER 1878, No. 897 I.

2. These sanctions are registered as shown above.

(True Extract.)

As attested

Lt.-Col., R.E.
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch

To the Superintending Engineer, Fifth Circle.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.
" Collector of Tinnevely.

25/11

Exd. E. C. Shunkor.

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Revenue *Depart*
No 5200.
IRRIGATION.

Gobt. of (1878) Madras.
PUBLIC WORKS.

To
✓
THE SUPERINTENDING ENGINEER,
FIRST CIRCLE,
&c., &c., &c.

Dated November 6th.

Issued

Recd. *25 November* Encl.

G. O., 6th November 1878, No. 897 L.

As per

NOVEMBER.

Nos. 32-33.

No. 2593
Present to the
Board of Revenue
26. Nov. 78. *Is*

Tank Repairs, Tinnevely District.—
Estimates amounting to Rupees 1,165 for
certain —, sanctioned.

11 Sales of Board of Revenue on 28th Nov