

(1) Number of pages 3 sheets (6 Pages)
(2) Date of repair 24-3-88
(3) Initials of the Referencer J. K.

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	2982	Press.
B.P. No.		Mis.
Dated	6-12-1978	197

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Archives 1-5,806-24-2-78.

2982

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

19th November 1878, No. 937 I.

Irrigation.

Read the following papers:—

No. 98. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevely, to the Chief Engineer for Irrigation, dated Palamcottah, 3rd September 1878, No. 90.

Two Estimates.
Two Plans.
One Group Plan.

I HAVE the honor to forward the undermentioned two estimates for sanction—

NORTHERN DIVISION.

Srivilliputtur Taluk.

- | | |
|---|-----------|
| 1. Estimate for repairing the bund, constructing a surplus weir, and re-building an irrigating sluice in Madavarvilagam Kurutedachikulam tank | rs. 1,100 |
| 2. Estimate for repairing the bund of Mutuvencataroyapuram Vellakulam tank, and constructing a surplus weir and an irrigating sluice in it | 810 |

The first estimate is the one returned with your memorandum No. 23 TM of 4th April 1877, the instructions in which have been attended to.

The division officer explains that no longitudinal sections were taken as they are small tanks, but that the estimates were prepared from observations while the tanks were nearly full of water.

On the first tank Rupees 71 were expended from Famine Funds last year, and on the second Rupees 74 were similarly spent.

No. 98-A.

No. 328 I.

Note by the Chief Engineer for Irrigation.

THE following estimates from the Northern Range are forwarded by the Officiating District Engineer, Tinnevely, with his letter marginally noted:—

Taluk.	Village.	Work.	Amount.
			RS.
Srivilliputtur	Madavarvilagam	V. Kurutedachikulam tank	1,100
	Mutuvencataroyapuram.	V. Vellakulam tank	810
		Total	1,910

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

I.—Financial Details.

Name of Work.	Aysat Area.	Assessment.	Average Revenue for five years.	Highest Revenue for five years.	During the previous four years.	OUTLAY.		
						Proposed		
						Ordinary Agricultural, Irrigation.		
						Original Works.	Repairs.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.
Kurutedachikulam tank	78	363	325	364	195	770	330	79.6
Vellakulam tank	61	385	390	398	None.	400	410	41.5
Total	139	748	715	762	195	1,170	740	58.5

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.		MAXIMUM SUPPLY.		LENGTH OF ESCAPE OR AREA OF SURPLUS SLUICE VENT.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.W.L. per Second.	Tanks above.	Area irrigated per Square Mile of Drainage.
	Sq. M.	C. FT.	per Second.	C. FT.	Total.	Effective.	Above F.T.L.	Above M.W.L.			
Kurutedachikulam tank.	0.5	1,525	..	..	FT. W 2x77 S 2x75	FT. 154 15	FT. Not stated.	FT. 2.5	C. FT. 1602.1	NO. 15	ACRES. 137.7
Vellakulam tank	0.5	937	..	..	W 85	95	Not stated.	4.5	2.5	16	123.5
							Not stated.	4.5	2.5	902.8	

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:—

Kurutedachikulam Tank has not been repaired for many years and its bund is low and weak. The tank has no proper surplus work, so that the surplus is discharged round the ends of the bund. The irrigation sluice which was rebuilt in 1875-76 is in fair order.

A small portion of the bund is stated to have been repaired last year from Famine Relief Funds at an outlay of Rupees 71, which is apparently included in the estimate under review.

The estimate provides for—

1st.—Raising and repairing the bund.

2nd.—Constructing two masonry weirs one at each end of the bund with a notch in the body wall of each.

The object in having surplus works at both ends of the bund is to admit the surplus being conveyed by means of the existing channels to the tanks below, and the notches in the surplus works are to supply the lower tanks with water during drought.

Vellakulam Tank.—This tank also has not been repaired for many years and consequently the bund is low and weak. The only masonry irrigation sluice which it has is in ruins, and the tank is not provided with proper surplus arrangements, neither is it stated by what means the surplus is discharged.

The supply channel is out of order and needs to be repaired.

It is stated that a small portion of the bund has been repaired at a cost of Rupees 74 and paid for from Famine Relief Funds which appears to be included in this estimate.

The estimate provides for—

1st.—Raising and repairing the bund and repairing the supply channel.

2nd.—Re-building the irrigation sluice.

3rd.—Constructing a masonry weir.

Several of the upper tanks are reported to be in bad order, and, according to circular No. 63, these should have been attended to first; the District Engineer should lose no time in placing them in order.

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.	Distin-guishing 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.
		Kurutedachikulam tank.	Constructing two masonry weirs.	Irrigation.	Original Works.	770	770
			Repairing bund		Repairs ..	330	330
			Constructing a masonry weir.		Original Works.	220	400
			Re-constructing the irrigation sluice.		Do. ..	180	
		Vellakulam tank.	Repairing bund and supply channel.		Repairs ..	410	410

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

FORT ST. GEORGE,
12th November 1878.

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

No. 99. ORDER THEREON, 19th November 1878, No. 937 I.

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

No. 328 I, dated 12th November 1878.

HEAD OF SERVICE--IRRIGATION.

Name of System or Group.	Name of Tank.	Description of Work.	Class.	Amount.	Irrigation Register No.
..	Kurutedachikulam tank.	Constructing two masonry weirs ..	Original Works.	Rs. 770	1 } 233 I
		Repairing bund	Repairs ..	330	
..	Vellakulam tank	Constructing a masonry weir ..	Original Works.	220	1 } 234 I
		Re-constructing the irrigation sluice.	Do. ..	180	
		Repairing bund and supply channel ..	Repairs ..	400	2 }
				410	

2. These sanctions are registered as shown above.

(True Extract.)

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Lt.-Col., R.E.,
Acting 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.

Exd. E. C. Shunker.

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Revenue Deficit
105368
IRRIGATION.

Govt. of (1878) Madras.
PUBLIC WORKS.

TO
✓
THE SUPERINTENDING ENGINEER,
FIFTH CIRCLE,
cc., cc., &c.

Dated November 19th.

Issued

Recd. 5 December

G. O., 19th November 1878, No. 937 L.

NOVEMBER.

Nos. 98-99.

No 2982
Comm^d to the
Board of Revenue.

6 Dec 78

Tanj., Tanjore District. — Sanctions
estimates for repairing, &c., certain —.

12-18-78 (Do and 20g) (Revenue) (Dec 7 1878)