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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No:	6146	Press. / Mis.
Dated	18-10-1877	197 .

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Archives I—10,006—19-4-79.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

4th October 1877, No. 372 I.

Irrigation.
Account.

Read the following papers :—

No. 22. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevelly, to the Chief Engineer for Irrigation, dated Palamcottah, 6th September 1877, No. 81.

I HAVE the honor to submit for early sanction the undermentioned two estimates for repairs of Irrigation works :—

4 Plans.
2 Estimates.

2. The works in question are intended to be carried out from Famine Relief Funds.

TINNEVELLY DISTRICT.

NORTHERN DIVISION.

Sankernainercovil Taluq.

	RS.
Estimate for repairing and improving the Vasudevanallur Mullikolam	660
Estimate for repairing and improving the Chinnaparaikolam tank	855

No. 192 I.

No. 22-A. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Northern Range are forwarded by the Officiating District Engineer, Tinnevelly, with his No. 81, dated 6th September 1877. letter marginally noted :—

Taluq.	Village.	Work.	Amount.
			RS.
Sankernainercovil ...	Vasudevanallur	V. Mullikolam tank ...	660
Do. ...	Do.	V. Chinnaparaikolam tank	855
		Total ...	1,515

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 five Years.	Highest Revenue for five Years.	OUTLAY. During the previous four Years.	OUTLAY. Proposed. Ordinary Agricultural, Irrigation. Original Works.	OUTLAY. Proposed. Ordinary Agricultural, Irrigation. Repairs.	OUTLAY. Proposed. Ordinary Agricultural, Irrigation. Average Annual Proportion of Charges Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT. RS.
Vasudevanallur Mullikolam tank ..	92	660	407	533	None.	407	253	32·4
Vasudevanallur Chinnaparaikolam tank.	61	440	305	378	Do.	442	413	56·0
Total ..	153	1,100	712	911	..	849	666	42·5

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply. Catchment per Second.	Maximum Supply. Channels per Second.	Length of Escape. Channels Second.	Length of Escape. Total.	Length of Escape. Effective.	Average Height of Bund. Above M.T.L.	Average Height of Bund. Above M.T.L.	Surplus discharged at M.T.L. per Second.	Tanks above.
	SQ. MS.	C. FT.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Vasudevanallur Mullikolam tank	0·5	177	246		Nil. W 66	Nil. 66	Not stated. 3·75	2·25	0·0 407·3	None.
Vasudevanallur Chinnaparaikolam tank	..	..		250	Nil. W 40	Nil. 40	Not stated. 3·75	2·25	0·0 246·8	Do.

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.

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

Vasudevanallur Mullikolam Tank.—This tank, in addition to its catchment supply, is also fed by branch channel taken off the surplus channel of Rappakolam tank, which is supplied by an anicut across the Pecaur river.

The tank has received no repairs for several years; its bund is very low and weak; it was breached in two places by the breaching of the Rappakolam surplus channel above it. The only irrigation sluice in the tank is in a dilapidated state, and the tank is unprovided with proper surplus works.

The estimate provides for—

(1.) Raising and repairing the bund and closing the breaches.

(2.) Rebuilding the irrigation sluice.

(3.) Constructing a masonry weir.

It is recommended for sanction.

The height of the tunnel of the sluice should not be less than 2 feet 6 inches.

Vasudevanallur Chinnaparaikolam Tank.—This tank is also fed by the branch channel taken off the surplus channel of Rappakolam. That channel is much contracted and partly silted up.

This tank has had no outlay upon it for many years; its bund is low and weak; it is provided with an irrigation sluice which is in such bad order as to require reconstruction, and an additional sluice to irrigate a portion of the lands on a high level is said to be necessary. The tank has no surplusing work.

The estimate provides for—

(1.) Raising and repairing the bund.

(2.) Widening and deepening the supply channel.

(3.) Constructing a masonry weir.

(4.) Reconstructing an irrigation sluice.

(5.) Constructing an additional sluice.

The estimate is recommended for sanction, but the necessity for two sluices for so small a tank should receive the reconsideration of the District Engineer before building the proposed additional sluice. High level sluices are very generally a mistake.

The reconstructed sluice should have its sill 2 feet higher than in the design, as it must not be lower than the deep bed of the tank.

The height of the tunnels of sluices of considerable length should not be less than 2 feet 6 inches.

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.	Description of Work.	Main Head.	Classes.	Amount of each Item.	Amounts to be separately accounted for.
						RS.	
..	..	Vasudevanallur Mullikolam tank.	Repairing bund and closing breaches.	Irrigation.	Repairs ..	253	503
			Rebuilding sluice		Do. ..	250	
			Weir		Original Works.	157	157
..	..	Vasudevanallur Chinnaparaikolam tank.	Repairing bund		Repairs ..	346	627
			Do. supply channel.		Do. ..	94	
			Reconstructing sluice ..		Do. ..	185	
			Weir		Original Works.	120	228
			Constructing sluice ..		Do. ..	108	

FORT ST. GEORGE,
24th September 1877.

(Signed) G. T. WALCH,
Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

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

No. 23. ORDER THEREON, 4th October 1877, No. 372 I.

THE following estimates for Irrigation works in the Northern Range, Tinnevelly District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned :—

No. 192 I of 24th September 1877.

Head of Service—Irrigation.

Name of Tank.	Description of Work.	Class.	Amount.		Irrigation Register Number.
			RS.		
Vasudevanallur Mullikolam tank.	Repairing bund, closing breaches and reconstructing sluice.	Repairs ...	503	1	224 I.
	Weir	Original Works.	157	2	
			660		
Vasudevanullur Chinnaparaikolam tank.	Repairing bund and supply channel and reconstructing sluice.	Repairs ...	627	1	225 I.
	Weir and sluice	Original Works.	228	2	
			855		

2. These sanctions are registered as shown above.

(True Extract.)

Major, R.E.,
Acting Under Secy. to Govt., P.W.D.,
Irrigation Branch.

17/10

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

Exd. A. Grubert.

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Revenue Depart.t
No 4428

IRRIGATION.
ACCOUNT.

Govt. of {1877} Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
TINNEVELLY.
&c., &c., &c.

Dated October 4th.

Rcvd. 17 October Encl.

G. O., 4th October 1877, No. 372 L.

OCTOBER.

Nos. 22-23.

Tanks, Tinnevelly District.—Sanctions estimates for repairs to certain —.

No 6145
Comm.r to the
Board of Revenue
12 Oct.r 77

9 Tanks of Ramnad 19-10-77