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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Rev. DEPARTMENT

G.O. No. / B.P. No. 480 Press. / Mis.

Dated 5.2.1879 ~~197~~ .

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

6th January 1879, No. 8 I.

Irrigation.

Account.

Read the following papers :—

No. 11. From J. D. GRANT, Esq., Officiating District Engineer, Tinnevelly, to the Chief Engineer for Irrigation, dated Palamcottah, 1st August 1878, No. 65.

I HAVE the honor to forward, for sanction, an estimate, amounting to Rupees 7,070, for repairing the bund, revetment, and masonry works of the Pattakurichi Meelakulam and Keelakulam tanks in the Tenkasi Taluk of the Shermadevi Division, and for constructing two sluices in them.

One estimate.
Five plans.
One level section.
One group plan.

No. 368 I.

No. 11-A. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the No. 3 or Shermadevi Range are forwarded by the Officiating District Engineer, Tinnevelly, with his letter marginally noted :—

No. 65, dated 1st August 1878.

SITTAR IRRIGATION.

Puliyur Group.

Taluk.	Village.	Work.	Amount.
			RS.
Tenkasi	Pattakurichi	V. Meelakulam tank ...	3,620
Do.	Do.	V. Keelakulam do. ...	3,450
		Total ...	7,070

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.	Repairs.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT. RS.
Pattakurichi Meelakulam tank ..	146	1,210	1,210	1,210	None.	1,368	2,252	59·8
Pattakurichi Keelakulam tank ..	264	1,917	1,917	1,917	..	175	3,275	55·9
Total ..	410	3,127	3,127	3,127	..	1,543	5,527	45·2

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply. Catchment per Second.	Maximum Supply. Channel per Second.	Length of Escape or Area of Surplus Sluice Vent. Total.	Effective.	Average Height of Bund. Above F.T.L.	Above M.W.L.	Surplus discharge at M.W.L. per Second.	Tanks above.
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Pattakurichi Meelakulam and Keelakulam tanks.	..	..	60	C. 63 S. 9 W. 63	47·25 9 63	.. 4·5	.. 3·5	1,213·3 211·6	None.

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:—

Puttakurichi Meelakulam and Keelakulam Tanks.—These tanks are supplied by means of a sluice in the Puliyur channel which takes off from the 6th anicut of the Sittar river; both tanks form one waterspread when full and the surplus is discharged by means of a calingulah and surplus sluice, common to both, into the Tiruchittambelam channel.

The bunds of these tanks are low and weak; the revetment requires to be repacked with partly new stone. Of the four irrigation sluices in the Meelakulam tank two are in ruins and beyond repair, and the other two need repairs. Of the three sluices in the Keelakulam tank the heads of two of them need remodelling and the other requires to be repaired. It is proposed to convert the calingulah into a weir.

The estimate provides for in each case—

Meelakulam Tank.

1st.—Raising and repairing the bund, repacking the revetment with new stone and backing where necessary.

2nd.—Rebuilding two irrigation sluices, *i.e.*, Nos. 2 and 3.

3rd.—Repairing two sluices, Nos. 1 and 4.

Keelakulam Tank.

1st.—Raising and repairing the bund, repacking the revetment with partly new stones where needed.

2nd.—Remodelling the heads of two irrigation sluices, Nos. 2 and 3.

3rd.—Repairing sluice, No. 1.

4th.—Converting the calingulah into a weir by removing the dam stones and raising the body wall to F.T.L.

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.
						RS.	RS.
Sittar Irrigation, Puliyur Group.	..	Pattakurichi Meelakulam tank.	New revetment to bund ..	Irrigation.	Original Works.	300	1,368
			Rebuilding sluice No. 2 ..		Original Works.	690	
			Do. do. „ 3 ..		Original Works.	378	
			Repairing do. „ 1 ..		Repairs ..	65	2,252
			Do. do. „ 4 ..		Do. ..	37	
			Do. bund		Do. ..	2,150	
	..	Pattakurichi Keelakulam tank.	New revetment to bund ..		Original Works.	175	175
			Remodelling head of sluice No. 2		Repairs ..	285	3,275
			Do. do. „ 3		Do. ..	147	
			Repairing sluice No. 1 ..		Do. ..	115	
			Converting calingulah into weir.		Do. ..	118	
			Repairing bund		Do. ..	2,615	

FORT ST. GEORGE,
12th December 1878.

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

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

No. 12. ORDER THEREON, 6th January 1879, No. 8 I.

No. 368 I, dated 12th December 1878.

THE following estimates for irrigation works in the No. 3 or Shermadevi Division, Tinnevelly District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned :—

Head of Service.—IRRIGATION.

Name of System or Group.	Name of Tank.	Description of Work.	Class.	Amount.		Irrigation Register No.
				RS.		RS.
Sittar Irrigation, Puliyur Group.	Pattakurichi Meelakulam tank.	New revetment to bund	Original Works.	300		296 I
		Rebuilding sluice No. 2	Do. ..	690		
		Do. do. „ 3	Do. ..	378		
				1,368	1	
		Repairing sluice No. 1	Repairs ..	65		
		Do. do. „ 4	Do. ..	37		
		Do. bund	Do. ..	2,150		
				2,252	2	

Name of System or Group.	Name of Tank.	Description of Work.	Class.	Amount.	Irrigation Register No.
Sittar Irrigation, Puliyur Group.	Puttakurichi Keelakulam tank.	New revetment to bund	Original Works.	RS. 175	1
		Remodelling head of sluice No. 2 ..	Repairs ..	235	297 I
		Do. do. " 3 ..	Do. ..	147	
		Repairing sluice No. 1	Do. ..	115	
		Converting calingulah into weir ..	Do. ..	113	
		Repairing bund	Do. ..	2,615	
				3,275	2

These sanctions are registered as shown above.

(True Extract.)

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

No 480
Commd to the Rev Bd

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

5: Feb/79

Exd. C. Howarth.
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Revenue 1879 Dept

Mis No 1055.

IRRIGATION.
ACCOUNT.

Govt. of [1879] Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
FIFTH CIRCLE
&c., &c., &c.

Dated January 9th

Issued

Recd Feby 4th Reply

G. O., 6th January 1879, No. 84.

10th Board of Revenue 5th Feby

JANUARY.
Nos. 11-12.

Rev GO 5 February/79 No 480

Tinnevelly District.—Sanctions estimate for repairs to certain

With order

480