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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

REVENUE DEPARTMENT

G.O. No. / ~~B.P. No.~~	2831	Press. / Mis.
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Archives I—5,806—24-2-78.

2831
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

6th November 1878, No. 900 I.

Irrigation.
Account.

Read the following papers:—

No. 38. From Lieutenant-Colonel H. L. PRENDERGAST, R.E., Officiating Superintending Engineer, North Arcot, to the Chief Engineer for Irrigation, dated Vellore, 17th July 1878, No. 1,882.

I HAVE the honor to submit for sanction plans and estimates, amounting to Rupees 2,430, for repairing and improving the two tanks of Reddimoncoopum and Rajkul Kullary, which are in a small group that receives a supply from the Bathanapully river in the Gudiyatham Taluk.

1 Sketch.	6 Abstract estimates.
2 Sections.	2 Hydraulic statements.
1 Plan.	2 Accompaniments.
4 Detailed estimates.	

2. *Reddimoncoopum Tank.*—The bund is very low for a considerable part of its length and much overgrown with bushes; the old stone revetment is much out of order and requires repacking.

There is a channel supply of 118 cubic feet direct from the Bathanapully river and a catchment supply of 884 cubic feet per second from an area of $1\frac{1}{2}$ square miles; but there is no proper means of discharging surplus water. It is therefore proposed to build an escape 45 feet long of loose rough stone as the soil is hard and a flush escape 61 feet long in stone-in-chunam, so as to discharge the maximum supply of 1,002 cubic feet per second.

Rajkul Kullary Tank.—This is the terminal tank in the group and surpluses back into the river. A portion of the bund is low and weak, but a larger item is for repacking revetment, which is much out of order. The tank has had no calingulah, but the surplus escapes over an irregular rock; it is proposed to bring the rock to the uniform level of full tank for a length of 71 feet to discharge the supply of 675 cubic feet per second.

3. There is a small rain-fed tank, the Noochlycottay, above the Reddimoncoopum tank; this is a dasabandam tank and does not require repair. The Nadoocooty tank, the intermediate tank between the Reddimoncoopum and Rajkul Kullary tanks, has lately been repaired from Famine Relief Funds, and is in good order.

4. I request that the enclosures may be returned when no longer required.

No. 306 I.

No. 38-A. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Chittoor Range are forwarded by the Officiating Superintending Engineer, North Arcot, with his letter marginally noted. These tanks appertain to the Rajkul Kullary tank group, which is partly supplied from the Gooddaur river.

No. 1,882, dated 17th July 1878.

Taluk.	Village.	Work.	Amount.
			RS.
Gudiyatham ...	Reddimoncoopum ...	V. Tank	1,980
	Rajkul	V. Kullary tank	450
		Total ...	2,430

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.
Reddimoncoopum tank.	87	712	866	Not stated.	None	630	1,350	45·7
Rajkul Kullary tank	29	210	169	Do.	Do.	70	380	53·2
Total ..	116	932	1,035	..	..	700	1,730	46·9

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply. Catchment per Second.	Maximum Supply. Channels per Second.	Length of Escape. Total.	Length of Escape. Effective.	Average Height of Bund. Above F.T.L.	Average Height of Bund. Above M.W.L.	Surplus discharged at M.W.L. per Second.	Tanks above.	Area irrigated per Square Mile of Drainage.
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C.FT.	NO.	ACRES.
Reddimoncoopum tank ..	1·5	884	118	E 106 W 61	106	..	..	830·8	1	69·5
Rajkul Kullary tank ..	1	675	..	E 45	106	4·5	2·5	932·4		
				E 64 E 71	64 71	.. 4·5	.. 2·5	608·2 674·7	3	23·3

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 :—

Reddimoncoopum Tank.—This tank is situated in latitude 12° 52' 0" longitude 78° 48' 20". The local drainage area is 1 square mile and that of the tank above it is 0·5 square mile ; besides the supply from these basins the tank receives a channel supply of 118 cubic feet per second from the Battinapully or Gooddaur river.

2831/2

The greater portion of the bund of this tank is low and weak and the revetment out of order and in some places below F.T.L. The surplus is at present discharged round the ends of the bund.

The estimate provides for—

1*st.*—Raising and repairing the bund, repacking the revetment, removing brushwood, and turfing the unrevetted portions of the water slope.

2*nd.*—Raising portions of the revetment with new stone and constructing a rough stone escape 45 feet in length.

3*rd.*—Constructing a masonry weir.

The Noochlycoottay tank, which lies above this tank, is a small rainfed dasabandam tank and is stated to be in good order.

The Nadoocooty tank, which is No. 3 in the group, has lately been repaired from famine funds, and is also reported to be in good order.

Rajkul Kullary Tank.—This tank is the terminal of the group ; it receives the surplus of other three tanks and in turn surpluses into the river.

The bund is low and weak and overgrown with brushwood, and the revetment is in disorder. The tank is not provided with a proper surplus work, and the surplus escapes through a gap in a rock.

The estimate provides for—

1*st.*—Raising and repairing the bund, removing brushwood, repacking the revetment, and turfing the unrevetted portions of the water slope.

2*nd.*—Improving the escape by blasting the rock where necessary and raising those portions which are low to a uniform height, viz., F.T.L. for a length of 71 feet.

As this tank receives part of the surplus of the Reddimoncoopum tank and apparently the whole of that from the Nadoocooty tank besides the discharge from its own drainage basin, the length of the proposed escape appears to be insufficient ; there is no information to show by how much it should be increased, but the necessary extension can probably be made within the estimated amount, as the rate for removing rock is heavy.

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.
Rajkul Kullary Tank Group.	3	Reddimoncoopum tank.	Constructing a masonry weir.	Irrigation.	Original Works.	360	630
			Constructing a rough stone escape and raising low parts of the revetment of the bund with new stone.		Do.	270	
			Repairing bund		Repairs.	1,350	1,350
	1	Rajkul Kullary tank.	Improving the escape ..		Original Works.	70	70
			Repairing bund		Repairs.	380	380

FORT ST. GEORGE,
29th October 1878.

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

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

No. 39. ORDER THEREON, 6th November 1878, No. 900 I.

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

No. 306 I, dated 29th October 1878.

Head of Service—IRRIGATION.

Name of System or Group.	Name of Tank.	Description of Work.	Class.	Amount.	Irrigation Registry No.
				Rs.	
Rajkul Kullary Tank Group.	Reddimoncoopum tank.	Masonry weir	Original Works.	360	1 222 I.
		Rough stone escape including new stone revetment to the bund.	Do.	270	
				630	
		Repairing bund	Repairs ..	1,350	2
	Rajkul Kullary tank ..	Improving escape	Original Works.	70	1 223 I.
		Repairing bund	Repairs.	380	2

2. These sanctions are registered as shown above.

(True Extract.)

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

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

Exd. T. D. Ryan.
Spare Copies

Revenue Deptt
No 5130.

IRRIGATION.
ACCOUNT.

Govt. of [1878] Madras.

PUBLIC WORKS

To

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

Dated November 6th.

Issued

Recd. 20 November Encl.

G. O., 6th November 1878, No. 900 I.

Revenue

NOVEMBER.

Nos. 38-39.

No. 2831

Communicated to the Board of Revenue.

25 Nov 78.

Tank Repair, North Arcot District.—Estimates for certain —, sanctioned.

14 Sols to Board of Revenue