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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

21st September 1877, No. 333 I.

Irrigation.

Read the following paper.—

No. 168 I.

No. 104. *Note by the Chief Engineer for Irrigation.*

The following estimates from the No. 1 or Wallajah Range are forwarded by the District Engineer, North Arcot, with his letter marginally noted:—

Talug.	Village.	Work.	Amount.
Wallajah	Surpenthangle	V. Tank	RS. 1,150
Do.	Goomadunthangle	V. "	300
Do.	Ammanur	V. "	1,440
Do.	Davadanam	V. "	780
			3,670

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

I.—Financial Details.

Name of Work.	Aycent Area.	Assessment.	Average value for five Years.	Highest Revenue for five Years.	During the previous four Years.	OUTLAY.			
						PROPOSED. ORDINARY AGRICULTURAL, IRRIGATION.			Average Annual Proportion of Charges to Revenue.
						Original Works.	Repairs.		
	ACRES.	RS.		RS.	RS.	RS.	RS.	PER CENT.	
Surpenthangle tank	47	279	44	Not stated.	Nil.	..	1,150	94.2	
Goomadunthangle tank	23	160	30	Do.	Do.	..	300	60.0	
Ammanur tank	128	653	35	Do.	Do.	180	1,260	47.6	
Davadanam tank	109	259	38	Do.	Do.	180	600	78.8	
Total ..	312	1,361	47	..	..	360	3,310	63.9	

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.T.L. per Second.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Surpenthangle tank	SQ. MR. 0.25	C. FT. 222	C. FT. 150	FT. 29	FT. 29	FT. 1.21	FT. 0.79	C. FT. 779.4	No. None.
Goomadunthangle tank	2.0	893	400	W 29	29	4.5	2.5	275.5	1
Ammanur tank	0.5	354	250	E 136	136	4.5	2.5	1,065.9	1
Davadanam tank	1.0	562	608	W 64	64	4.5	2.5	608.1	2
				C 61	61	4.5	2.5	579.6	

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:—

Surpenthangle Tank.—This is the first of a series of tanks fed by the southern branch of the East channel from the Poiney anicut. The supply entering the tank from the channel is under regulation, and the area from which drainage is received is only one-fourth square mile. To discharge the surplus there is a weir with 29 feet length of crest which it is proposed to raise by 2 feet. The estimate provides for this, and for the necessary raising and repairing of the bank, as also for some petty repairs to the two sluices.

The front slope of the bank is revetted to M.W.L., and repacking of the stone is provided for in the estimate. The turfing provided for may be struck out, and the estimate thus reduced to Rupees 1,000 is recommended for sanction.

It is stated that the repairs will probably result in an increase of Rupees 122 to the average revenue of the tank, but the difference between the ayacut assessment and the average revenue is only 35 Rupees.

Goomadunthangle.—This small tank is the second of the series lying along the southern branch of the Eastern channel from the Poiney anicut, and it receives the drainage from two square miles. The surplus is said* to escape over "high and

hard ground" at the west end of the tank, and as apparently the estimate does not provide for improving the means of escape, it is supposed that they are sufficient. The "statement" indeed has entries showing that there is no present escape and that one of 136 feet is proposed, but the District Engineer's letter and other documents show this not to be the case.

The estimate provides for putting the bank into thorough order, and is recommended for sanction.

Ammanur Tank.—This tank receives the drainage of about half a square mile as well as a supply from the Nagavedu tank to which by way of the Kodical tank surplus channel, water comes from the Poiney anicut, Eastern channel. The existing surplus-ing work is a calingulah which the estimate provides for converting into a weir with crest at F.T.L. and 64 feet long.

The estimate also provides for raising and widening the bank, repacking old and the last-mentioned item of work Rupees 428 is entered. Rupees 78 will probably be entered for all the turfing it is advisable to do, and the amount recommended for san-

For repairs of bank	RS. 910
For conversion of calingulah into weir	180
Total	1,090

Davadanam Tank.—This lies contiguous to and between the last-noticed tank and the Kilandorai large tank. From the former it receives a supply, at times amounting to about 608 cubic feet a second, and to the latter it sends part of its surplus water when quite full. This tank also receives drainage from about one square mile, and to discharge its surplus it has a calingulah which the estimate provides for converting into a weir with crest at F.T.L. and a length of 61 feet.

The estimate also provides for raising and widening the bund, turfing front and rear slopes.

Rupees 50 are probably as much as it is advisable to spend on turfing, and the estimate may be reduced to Rupees 530* which amount is recommended for sanction.

* Repair of bank	RS. 350
Converting calingulah	180
Total	530

The longitudinal section shows the bank at its east end as finished off on ground considerably below M.W.L. and apparently sloping to a still lower level; this requires attention. The connection with the tanks to the north and south should be indicated.

There should be one group map in one or more consecutive sheets for the irrigation works under the Poiney anicut, Left or Eastern channel, and the sheets should fit together and be numbered consecutively from the anicut. Two sheets have been forwarded, but they are not consecutive, and they do not fit together. The numbering individual works should be in accordance with Circular No. 76. There should be one set of numbers for all the works of one section of a system; not separate numbers for the works on each sheet. The numbers given should be referred to in connection with the names.

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 Tanks.	Description of Work.	Main Head.	Class.	Amount of each Item.	Amount to be separately accounted for.
Poiney Anicut System, Eastern Channel.	South Branch.	1 Surpenthangle tank	Repairing bund, two sluices and weir.	Irrigation.	Repairs..	1,000	1,000
		2 Goomadunthangle tank	Repairing bund		Do. ..	300	300
	North Branch.	3 Ammanur tank	Do. do.		Do. ..	910	910
		4 Davadanam tank	Converting calingulah into weir		Original Works.	180	180
			Repairing bund		Repairs..	350	350
			Converting calingulah into weir		Original Works.	180	180

FORT ST. GEORGE,
4th 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. 105. ORDER THEREON, 21st September 1877, No. 333 I.
 THE estimates for Irrigation works in the No. 1 or Wallajah Range, North Arcot 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.
Paiy Ancient System, Eastern Channel.	South Branch.	Surpentangle tank	Repairing bund, two sluices and weir	Repairs ..	1,000	206 I.
		Goomadunthangle tank	Repairing bund	Do. ..	300	207 I.
	North Branch.	Ammanur tank	Repairing bund	Do. ..	510	1 } 208 I.
			Converting calingulah into weir	Original Works ..	180	
		Davadanam tank	Repairing bund	Repairs ..	1,000	1 } 209 I.
					Converting calingulah into weir	
					180	
					520	

2. These sanctions have been registered as shown above.

(True Extract.)

W. H. L. L. L.

Colonel, R.E.,
 Joint Secy. to Govt., P.W.D.,
 Irrigation Branch.

To the District Engineer, North Arcot.
 " Collector of North Arcot.
 " Chief Engineer for Irrigation.
 " Examiner of Public Works Accounts.
 " Revenue Department.

3/10

Exd. A. Grubert.
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Revenue Department
No 4234
IRRIGATION

Govt. of 1877; Madras.
PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
NORTH ARCOT,
&c. &c. &c.

Dated September 21st.

Issued

Recd. 3 October

Encl.

G. O. 21st September 1877, No. 333 L

SEPTEMBER.

Nos. 104-105.

Poincy Ancient System, Eastern Channel,
North Arcot District.—Sanctions estimates
for repairs to certain tanks of the —.

14.10.28
Cann

97/14 of Revenue
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