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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

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2d.

Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,435.

Read the following:—

No. 157-W.

No. 179.

Note by the Chief Engineer for Irrigation.

The following estimates from the No. 1 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted.

Taluq.	Village.	Work.	Amount.
			RS.
Conjeveram	Govindavady	S. No. 180, V large Tank ..	3,200
Do.	Do.	Do. V Chittary Tank ..	1,545

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

I.—Financial Details.

Name of Work.	Aynut Area.	Assessment.	Average Revenue for 5 Years.	Highest Revenue for 5 Years.	OUTLAY.			
					During the previous 4 Years.	PROPOSED.		
						Original Works.	Repairs.	Average Annual proportion of charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.
Govindavady large Tank	574	2,555	2,346	2,544	Nil.	320	2,880	27.2
Do. Chittary Tank	134	696	878	979	..	290	1,255	35.2
Total ..	708	3,251	3,224	3,523	..	610	4,135	46.1

II.—Hydraulic Details.

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 Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	No.
Govindavady large Tank	6.0	1,857	..	W 0 + 36 W 96 E 273	96 369	5.65 7.45	4.15 6.04	354.5 1,715.8	2
Do. Chittary Tank	5.0	1,644	992	W 3 + 31 W 12 + 31 E 285	69 338	3.00 5.00	1.50 3.50	237.1 1,499.8	1

NOTE.—The proposed dimensions of escapes and height 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 flush crest. E.—Escape at ground level. B.—Bund of tank. S.—Revenue Survey. N.V.—Village.

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

Govindavady Large Tank.—Constructing a loose stone escape, repairing the bund and five irrigation sluices, lowering the crests of the northern and southern weirs to

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F.T.L., and also closing the vents in the body wall of the latter. The earthworks provided for are much in excess of the requirements; the top of the bund being shown in the longitudinal section at 6 feet above M.W.L., whereas 3 feet will be sufficient. The turf bund shown in the section II at the centre of the proposed new bund at the south end is altogether objectionable if intended as a substitute for a puddle wall, and the depth of water here being only 3.67 feet, an ordinary bund 3 feet instead of 5 feet above M.W.L. will be ample.

Govindavady Chittary Tank.—Constructing a loose stone escape, reconstructing an irrigation sluice, repairing the bund, closing the breaches and repairing an irrigation sluice. It is also proposed to lower the crests of both the existing weirs and to reduce the length of one of them from 33 to 22 feet and to build a new wing wall.

The Govindavady tanks are supplied from McLean's channel by a channel taking off at the Terumalpur dam. It is proposed to construct a head sluice to this channel to regulate the supply and secure the tanks which command the Conjeveram branch of the South Indian Railway. The plan will have to be returned for revision.

4. It is intended to use a portion of the stone of the existing revetments of the two tanks for the purpose of constructing the surplus escapes and to protect the denuded slopes by planting grass and turing. This measure appearing to be one of doubtful economy, the Superintending Engineer was requested to report what would be the cost of conveying the stone required by railway from the nearest quarry adjoining the line which itself runs along the base of the bund of the Govindavady large tank. About 1,000 cubic yards of stone would be required, and the addition to the estimates involved by the use of new stone would, it is stated by Colonel Moberly, be Rs. 1,685. It would have been useful if an analysis of the items making up this sum had been given. It is doubtful whether the facilities which must now be often afforded by the railway for the carriage of building materials are fully appreciated or taken advantage of by officers of the department, and it would be as well to draw their attention to the subject. In the present case it is not proposed that the discretion of the Superintending Engineer should be interfered with.

The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several heads of account involved:—

Name of Tank.	Items of Estimate.	FUND, ORDINARY AGRICULTURAL.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Govindavady large Tank	Constructing a dry stone escape	320	..	3,200
	Repairing the bund	..	2,675	
	Repairing five irrigation sluices	..	185	
	Repairing the southern and northern weirs	..	20	
Govindavady Chittary Tank	Constructing a dry stone escape	290	..	1,645
	Reconstructing an irrigation sluice	..	190	
	Repairing the bund and closing the breaches	..	865	
	Repairing an irrigation sluice	..	18	
	Repairing the two existing weirs	..	182	

OOTACAMUND,
30th August 1876.

(Signed) A. DEC. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,435.

No. 180. ORDER THEREON, 13th September 1876, No. 2,435.

IRRIGATION, No. 21.

Account.

No. 157-W, dated 30th August 1876.

The following estimates for Irrigation Works in the No. 3 or Chingleput Ran Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned.

Name of Work.	Item of Estimate.	Fund. Ordinary Agricultural.	Amount.	Irrigation Registry No.
			RS.	
Govindavady large Tank.	Dry stone escape	Original Works	320	1
	Repairing the bund	Repairs	2,675	2
	Repairing five irrigation sluices	Do.	185	3
	Repairing the southern and northern weirs	Do.	20	4
Govindavady Chittary Tank.	Constructing a dry stone escape	Original Works	290	1
	Reconstructing an irrigation sluice	Repairs	190	2
	Repairing the bund and closing the breaches	Do.	865	3
	Repairing an irrigation sluice	Do.	18	4
	Repairing two weirs	Do.	182	5

2. These sanctions are registered as shown above.
(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

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

Exd. E. C. Shunker.

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