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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	3953	Press.
B.P. No.		Mis.
Dated	16. 7. 1877.	197 .

Not to be folded or roughly handled.

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3953

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

29th June 1877, No. 123 I.

Irrigation.
Account.

Read the following paper:—

No. 65 I.

No. 134. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Palnad and Nandigama Ranges are forwarded by the Superintending Engineer, Kistna, with his letter marginally noted:—
No. 184, dated 15th March 1877.

Taluq.	Village.	Work.	Amount.
			RS.
Narasarowpet	Chimalamarri	V. tank	130
Bezawada	Chagireddipaud	V. tank	137
		Total	267

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.	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.	PERCENT.
Chimalamarri Tank	44	274	93	123	Nil.	130	...	27.9
Chagireddipaud Tank	69	273	219	Not stated.	185	137	...	29.4
Total	113	547	312	...	185	267	...	28.9

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.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Chimalamarri Tank	2	593	..	E. 75	75	7.5	5.0	821.5	Not stated.
Chagireddipaud Tank	..	77.6	..	E. 75	75	7.5	5.0	821.5	Do.
				Not stated.					

* In the report, paragraph 11, the area of the catchment is put at less than half the area of the cultivation, which is a mistake.

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.—Cullingulah with dam stones. W.—Weir with flush crest. 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:—

Chimalamarri Tank.—The Irrigation sluice of this tank built by the ryots is in ruins, and a great deal of water is wasted. It is therefore necessary that a new sluice should be constructed, and for this the estimate provides. It is stated that this work will bring 40.57 acres of land under cultivation, which will increase the revenue by Rupees 234.

The size of the tunnel in the design for the sluice is too small to admit of interior inspection; it should be not less than 2 feet wide by 2 feet 6 inches high. The arrangements for working the plug and shutter are not good; they should be made somewhat like those shown in Design 8, Circular No. 67, to which type indeed the whole sluice may probably with advantage be made to conform. To admit of this it is recommended that Rupees 150 instead of Rupees 130 as asked for be sanctioned.

Chagireddipaud Tank.—This tank has a sluice constructed of palmirah timber, a very unsuitable structure, and has no means of regulating the water. It is therefore proposed to construct a masonry sluice, for which the estimate provides.

The remarks on the design for the sluice for the tank above noticed are applicable also to this one, and Rupees 150 are recommended for sanction.

It has not been stated whether these tanks are isolated or form portions of groups.

F.T.L. and M.W.L. have not been clearly shown on the plans. The hydraulic details given for the second tank are defective. The Superintending Engineer should, in future, see that in submitting estimates connected with tanks the instructions contained in Circulars Nos. 55 and 63 are fully complied 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 IRRIGATION.		Total for each Tank, &c.
		Original Works.	Repairs.	
Chimalamarri Tank	Constructing an irrigation sluice...	RS. 150	RS. ...	RS. 150
Chagireddipaud do.	Do. do. ...	150	...	150

FORT ST. GEORGE,
22nd June 1877.

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

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

No. 135.

ORDER THEREON, 29th June 1877, No. 123 I.

THE following estimates for Irrigation Works in the Palnad and Nandigama Ranges, Kistna District, forwarded by No. 65 I, dated 22nd June 1877. the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural Main Head, Irrigation.	Amount.	Irrigation Register Number.
Chimalamarri Tank	Irrigation sluice ...	Original Works.	RS. 150	80 I.
Chagireddipaud do.	Do. ...	Do. ...	150	81 I.

2. These sanctions are registered as shown above.

(True Extract.)

(Signed) JOHN MULLINS, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

(True Copy)
John Mullins Colonel R.E.
Joint Secy to Govt.
Irrigation Branch.

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

Exd. T. D. Ryan.
Spare Copies

Revenue Department

No 3263

IRRIGATION.
ACCOUNT

Govt. of [1877] Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,

KISTNA,

&c., &c., &c.

Dated June 29th.

Issued

Recd.

14 July

Encl.

G. O., 29th June 1877, No. 123 L.

JUNE

Nos. 134-135.

No. 3953

Comm. to the
Board of Revenue

16 July 1877

Chimalamery and Chagireddipoud Tanks,
Kistna District.—The estimates for con-
structing Irrigation sluices to the —, sanc-
tioned.

To B. G. L. W. 20.7.77