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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue

DEPARTMENT

G.O. No.	<u>1862</u>	Press
B.P. No.		Mis. ☒
Dated	<u>7. 8. 1876</u>	196

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De.

Read the following:—

No. 84W.

No. 171. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Chingleput Range are forwarded by the Superintendent Engineer, Chingleput, with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Madrantium	Kadoogooputtoo	S. No. 450, V Large Tank.	Rs. 1,030
		Do. 450, V Chittary	800
		Do. 451, V Tank	430
		Do. 451, V Tank	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 5 Years.	Highest Revenue for 5 Years.	OUTLAY			
					During the previous 4 Years.	PROPOSED.		
						Capital.	Revenue.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Kadoogooputtoo Large Tank	107	265	325	434	Nil.	...	1,030	...
Do. Chittary	57	179	239	290	310	...	800	...
Irnachetti Tank	72	245	255	268	126	...	430	...

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.
		per Second.	per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.		
Kadoogooputtoo Large Tank.	125	647	...	E 33	33	3.50	2.00	129.7	...
Do. Chittary	75	464	...	E 108	108	3.50	2.00	424.5	...
Irnachetti Tank	2	898	...	E 27	27	2.25	0.75	106.1	...
				E 78.5	78.5	3.50	2.00	308.6	...
				E 36	36	3.00	1.50	222.1	...
				W 36	156	3.00	1.50	714	...
				E 120					

NOTE.—The proposed dimensions of escapes and heights of bund are entered in large type. The existing dimensions in small type. The following abbreviations are used:—K.—Kalingulah with dam stones W.—Weir with flush crest, E.—Escape at ground level, B.—Bund of tank, S.R.—Survey No., Village.

Proceedings of the Madras Government, Public Works Department,
11th July 1876. No. 1,753.

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

Kadoogooputtoo Large Tank.—Repairing the bund and sluice and remodelling the head of the sluice; constructing a loose stone escape and replacing the pot-sluice by a concrete pipe.

Kadoogooputtoo Chittary.—Raising and strengthening the bund and repairing the sluice, and constructing a loose stone escape.

Irnachetti Tank.—Repairing the bund and sluices, raising the body wall of the masonry escape, and cutting away a portion of the bund.

4. In addition to the escape of 20 feet proposed for the Kadoogooputtoo tank, there is a cut in the bund, the bottom level of which is 6 inches below M.W.L. It would be better to close it as suggested, and to extend the escape 20 or 30 feet, adding Rupees 60 to the estimate.

Applying in the case of the Kadoogooputtoo Chittary and the Irnachetti tanks also the co-efficient of discharge due to the circumstances of their being provided with escapes giving no overfall, the result shows that the crests should be lengthened, in the first by about 12, and in the second by 15 feet. The increase to the estimate will be approximately Rupees 25 and 30.

It is noticed that the Irnachetti tank escape is not protected either by rough stone or grass. If the soil is not exceptionally hard, either the one or the other is necessary.

The estimates, as modified, are recommended for sanction.

5. 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.	Name of Work.	FUND.		Total for each Tank, &c.
		Ordinary—Agricultural.	Repairs.	
	<i>Chingleput Range.</i>	RS.	RS.	RS.
Kadoogooputtoo Large Tank	Repairing the bund and sluice and remodelling the head of the sluice ...	...	778	1,090
	Constructing a loose stone escape and casing the pot-sluice with concrete ...	312	...	
Do. Chittary...	Raising and strengthening the bund and repairing the sluice ...	...	660	825
	Constructing a loose stone escape ...	165	...	
Irnachetti Tank	Repairing the bund and sluices ...	...	397	430
	Raising the body wall of the masonry escape and cutting away a portion of the bund ...	...	53	

30th June 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,
11th July 1876. No. 1,753.

No. 172. ORDER THEREON, 11th July 1876, No. 1,753.

IRRIGATION, No. 14.
Account.

No. 84W., dated 30th June 1876.

THE following estimates for Irrigation Works in the Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned :—

Name of Work.	Item of Estimate.	FUND.		Amount.	Irrigation Registry No.
		Ordinary Agricultural.	Repairs.		
	<i>Chingleput Range.</i>			RS.	
Kadoogooputtoo Large Tank.	1. Repairing the bund and sluice and remodelling the head of the sluice ...	Repairs ...	...	778	64 L.
	2. Constructing a loose stone escape and casing the pot-sluice with concrete ...	Original Works ...	...	312	
Do. Chittary...	1. Raising and strengthening the bund and repairing the sluice ...	Repairs ...	...	660	65 L.
	2. Constructing a loose stone escape ...	Original Works ...	...	165	
Irnachetti Tank	1. Repairing the bund and sluices ...	Repairs ...	...	397	66 L.
	2. Raising the body wall of the masonry escape and cutting away a portion of the bund ...	Do. ...	...	53	

2. These sanctions are registered as shown above.

(True Extract.)

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

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

Exd. T. D. Ryan.

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PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
CHINGLEPUT,
&c. &c. &c.

Dated July 11th.

Issued

Recd. *5 Aug 1/73* Encl.

G. O., 11th July 1876, No. 1,753.

JULY.

Nos. 171-172.

Dr. 1862
Tanks, Chingleput District.—Estimates for
the repair, &c., of certain —, sanctioned.

Do 1862
communicated to the Dy. Secy.

70 August 1876

MADRAS RECORD OFFICE