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(3) Initials of the Referencer_____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1753	Press
B.P. No.		Mis.
Dated	11-7-	1876 195-

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

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 Superintending Engineer, Chingleput, with his letter marginally noted:—

Taluk.	Village.	Work.	Amount.
Madurantium ...	Kadoogooputtoo ...	S. No. 450, V. Large Tank.	RS. 1,030
	Do. ...	Do. 450, V Chittary ...	800
	Irnachetti ...	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.	Revenue for 5 Years.	Highest Revenue for 5 Years.	OUTLAY			
					During the previous 4 Years.	PROPOSED.		
						Capital.	Revenue.	Average Annual Pro- portion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Kadoogooputtoo Large Tank ...	107	265	325	434	310	...	1,030	...
Do. Chittary ...	57	179	239	290	126	...	800	...
Irnachetti Tank ...	72	245	255	293	...	...	430	...

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged 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.
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	893	...	E 27	27	2.25	0.75	106.1	...
				E 78.5	78.5	3.50	2.00	308.6	...
				E 36	36	1.50	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. V.—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 108 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.		
		Original Works.	Repairs.	
Chingleput Range.				
Kadoogooputtoo Large Tank	Repairing the bund and sluice and remodelling the head of the sluice	RS.	RS.	RS.
	Constructing a loose stone escape and casing the pot-sluice with concrete	...	778	1,090
Do. Chittary...	Raising and strengthening the bund and repairing the sluice	312	...	
	Constructing a loose stone escape	...	660	430
Irnachetti Tank	Repairing the bund and sluices	165	897	
	Raising the body wall of the masonry escape and cutting away a portion of the bund	...	33	

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.		
Chingleput Range.					
Kadoogooputtoo Large Tank.	1. Repairing the bund and sluice and remodelling the head of the sluice.	Repairs	...	778	64 I.
	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 I.
	2. Constructing a loose stone escape.	Original Works	...	165	
Irnachetti Tank	1. Repairing the bund and sluices ...	Repairs	...	397	66 I.
	2. Raising the body wall of the masonry escape and cutting away a portion of the bund	Do.	...	33	

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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II.—Hydraulic Details.

Name of Work.	Catchment Area. Sq. M.	Catchment per Second. C. ft.	Channels per Second. C. ft.	Maximum Supply.	Length of Escape.	Average Height of Bund.		Surplus discharged at M. T. L. per Sec. C. ft.	Tanks above.
				Total. Ft.	Effective. Ft.	Above F. T. L.	Above M. T. L.		
						Ft.	Ft.		
Kadrogoputtos large Tank	3 7.25	647	"	E 33	33	3.50	2.00	129.7	
				E 108	108	3.50	2.00	124.5	
Kadrogoputtos Chittary	3 7.5	164	"	E 27	27	2.25	0.75	106.1	
				E 8.5	8.5	3.50	2.00	124.5	
Ernachetti Tank	2 8.93	"	"	E 36	36	3.00	1.50	222.1	
				E 15	15	3.50	2.00	124.5	

Note.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. 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. V. Village.

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

Kadrogoputtos large Tank. Repairing the bund and sluice and re-modelling the head of the sluice, constructing a loose stone escape and replacing the pot sluice by a concrete pipe.

Kadrogoputtos Chittary. Raising and strengthening the bund and repairing the sluice and constructing a loose stone escape.

Ernachetti Tank. Repairing the bund and sluices, raising the body wall of the masonry escape

and cutting away a portion of the bund.

In addition to the escape of 108 feet proposed for the Kadrogoputtos Tank there is a cut in the bund, the bottom level of which is 6" below M. W. L. It would be better to close it as suggested and to extend the escape twenty or thirty feet adding Rs 60 to the estimate.

Applying in the case of the Kadrogoputtos Chittary and the Ernachetti Tanks also the coefficient 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 Rs 25 and 30.

It is noticed that the Ernachetti 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. 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	Found Ordinary Agricultural	Major Works	Repair	Total for each Tank Rs.
Chinglepuk Range	Repairing the bund & sluice & remodelling the head of the sluice	"	778		
Kadargoputtu Large Tank.	Constructing a loose stone escape & raising the foot sluice with concrete	312			1090
Kadargoputtu Chittary	Raising & strengthening the bund & repairing the sluice	660			
	Constructing a loose stone escape	165			825
Imnachetti Tank.	Repairing the bund & sluice	397			
	Raising the body wall of the masonry escape & cutting away a portion of the bund	33			430

5B

Audited
Major R.L.
Dy. Chief Engineer for Irrigation
For Chief Engineer for Irrigation

To
The Secretary to Govt.
Pub. Works Dept.

P. K. 1878 Department
805015.

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FORMER CASES.

R No. 150N of 1876
 90 " 2903 " 75

Issue Case.

I. E. Form No. 31.

Q. H. 1876. Department
 From The Chief Engineer for Irrigation.

Receipt No. 150N.

Dated 22nd March 1876.

Dated 30th June
 Received 13th July } 1876.

88-81 H.

Subject:—

Irrigation estimates
 Submitted for sanction
 certain

ENCLOSURES.

1. S.E. letter No. 4990. 722. 376.
3. Reports
5. Rep. & C. E. Secy.
6. Plans
- 3 Certificates.

REMINDERS ISSUED.

No. 1, dated 187 .
 " 2, " "
 " 3, " "
 " 4, " "
 " 5, " "

KEEP-WITHS.

Recd. 15-7-76
 C. E. Secy. 11.9.76
 O. H. Secy. 3 July

E. I. Form No. 3.

No. 1753 7/11 July/76 7B 5

The following Estimates for Irrigation
 works in the Chingleput Range,
 Chingleput District, forwarded by the
 Chief Engineer for Irrigation with his Memo.
 marginally noted are sanctioned:—

No. 84 - W.

dated 30th June 1876.

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Chingleput Range	Repairing the bund & sluice & remodel-ling the head of the sluice—	Ordinary Agricultural Repairs.	778	
Kadoogoputtoo Large Tank.	Constructing a loose stone escape & casing the foot sluice with concrete—	Original Works	312	Ch. I
Kadoogoputtoo Chittary	Raising strength-ening the bund & repairing the sluice	Repairs.	660	65 I
	Constructing a loose stone escape	Original Works.	165	
	Repairing the bund & sluices	Repairs	397	
Innachatti Tank.	Raising the body wall of the masonry escape & cutting away a portion of the bund	- do -	33	66 I

2 These sanctions are
 registered as shown
 above.

C. E. Chingleput
 Collecting do
 C. E. Secy. 18 July
 E. P. Secy.
 Recd. 2/8/76

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14. 17

CH 5010

Govt. of Madras.

PUBLIC WORKS.

To

The Secy to Govt.

Dated

In view

Recd.

Encl.

G. O. 11th July 1876, No. 1753

Nos. 171-172

Tanks Chinleput

Re - Estimates for
the repair &c of certain
— same —

Entirely
8-8-76.