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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 1008 (2) Press
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Dated 21-4-1876..

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Proceedings of the Madras Government, Public Works Department,
21st April 1876.

Read the following :—

No. 30 W.

No. 302. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Wallajah and Vellore Ranges are forwarded by the District Engineer, North Arcot, with No. 4,075, dated 2nd March 1876. his letter marginally noted :—

Taluq.	Estimate No. 1875-76.	Work.	Amount.
	RS.		RS.
Wallajah	72 and 73	Chengadoo tank	3,130
Do.	67 and 61	Melcoopam large tank	1,540
Vellore	82	Periancooppum large tank... ..	5,430
Do.	81	Periancooppum Chittary tank	1,210

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.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
					Capital.	Revenue.	Total.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.
Chengadoo tank	264	1,374	1,370	...	1,080	2,100	3,180
Melcoopam large tank	143	613	893	...	840	1,200	1,540
Periancooppum large tank	121	682	970	...	1,730	3,700	5,430
Periancooppum Chittary tank	83	337	230	...	235	975	1,210

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SURFACE		GTH OF CAPE.		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.
Chengadoo tank	4.5	1,533	...	W. 36	86	2.12	12	342.1	1
				W. 156	156	4.5	2.5	1482.6	
Melcoopam large tank	2	900	...	C. 84	16	...	...	144.0	
				W. 94	76	4.5	2.5	714.2	
Periancooppum large tank	10	2,611	...	W. 61	61	...	...	1061.3	
				W. 168	168	6	3	2933.0	
Do. Chittary tank	2	898	...	Nil	Nil	...	...	0.0	
				E. 112	112	4.5	2.5	709.5	

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 flush crest. E.—Escape at ground level. B.—Bund of tank.

3. The following is a summary of the work proposed to be carried out in each case.
Chengadoo Tank.—The surplus tank has breached, and it is proposed to construct a masonry weir 120 feet in length in addition to the existing outlet of 36

Proceedings of the Madras Government, Public Works Department,
21st April 1876.

feet, making a total length of 156 feet available for the surplus discharge. The estimate also provides for raising and strengthening and repairing the bund.

Melcoopam Large Tank.—The existing calingulah for the discharge of the surplus is insufficient, and it is proposed to construct a masonry weir 60 feet in length in addition to the 16 feet of effective outlet, making an aggregate effective length of 75 feet available for the surplus discharge. The estimate provides for raising and repairing the bund, and constructing the weir.

Periancooppum Large Tank.—The surplus of this tank crosses the southern branch of the Madras Railway at the 115th mile. The bund is reported to have breached, the escape is insufficient for the discharge of the surplus. The estimate provides for raising and repairing the bund, closing the breaches, repairing the sluice, extending the weir and raising the revetment of the bund to M.T.L.

Periancooppum Chittary Tank.—This tank has no escape and the bund is reported to be in very bad order. The estimate provides for raising and repairing the bund, repairing the sluice, constructing a rough stone weir and revetting the bund. The surplus of this tank also crosses the line of railway in the 115th mile.

4. In noticing the large outlay (compared to revenue) on the Periancooppum tank, the District Engineer explains that the water-supply is ample, and that if the embankment is made safe the ayacut revenue will probably be increased by 2nd crop cultivation. The surplus both of this and the Periancooppum Chittary tank crosses the railway. The work proposed to be executed to the tanks generally is necessary for their safety, and the estimates 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.
		Capital Ordinary.	Extensions and Improvements.	Repairs.	
Chengadoo tank	Wallajah Range.	Rs.	Rs.	Rs.	Rs.
Do.	Raising and strengthening the bund	...	...	2,100	...
Melcoopam tank	Constructing a masonry weir	1,030	...	...	3,130
Do.	Raising and repairing the bund	...	...	1,200	...
Do.	Constructing a masonry weir	310	...	...	1,540
Periancooppum large tank.	Vellore Range.	...	...	...	...
Do.	Raising and repairing the bund, closing the breaches and also repairing the sluice	...	...	3,700	...
Do.	Extending the existing weir and raising the revetment of the bund up to M.W. L. with new stones	1,730	...	...	5,430
Periancooppum Chittary tank.	Raising and repairing the bund and repairing the sluice	...	...	820	...
Do.	Constructing a rough stone escape	...	155	...	...
Do.	New revetment to bund	235	...	...	1,210

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

Proceedings of the Madras Government, Public Works Department,
21st April 1876.

No. 303.

ORDER THEREON, 21st April 1876, No. 1,008.

IRRIGATION, No. 18.
Account.

No. 30 W., dated 31st March 1876.

THE following estimates for Irrigation Works in the Wallajah and Vellore Ranges, North Arcot 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.
Wallajah Range.				
Chengadoo tank	Raising and strengthening the bund.	Revenue Repairs	Rs. 2,100	6 I.
	Constructing a masonry weir	Capital Ordinary	1,030	
Melcoopam tank	Raising and repairing the bund	Revenue Repairs	1,200	7 I.
	Constructing a masonry weir	Capital Ordinary	340	
Vellore Range.				
Periancooppum large tank	Raising and repairing the bund, closing the breaches and repairing the sluice.	Revenue Repairs	3,700	8 I.
	Extending the existing weir and raising the revetment of the bund.	Capital Ordinary	1,730	
Periancooppum Chittary tank.	Raising and repairing the bund and repairing the sluice.	Revenue Repairs	820	9 I.
	Constructing a rough stone escape	Revenue extensions and improvements.	155	
	New revetment to bund...	Capital Ordinary	235	

2. These sanctions are registered as shown above.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

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

Exd. E. C. Shunker.
Spare Copies

31st March 1876.N^o 30 W.

Note by the Chief Engineer for Irrigation.

No. 4075

Dated 2nd March 1876.

Sudo. St. 29

The following Estimates from the Wallajah & Vellore Ranges are forwarded

by the District Engineer Northbrook with his letter

marginally noted:—

Talga	Estimate No. 1875-6	Work	Amount Rs.
Wallajah	72 & 73	Chengadoo Tank	3130
Do.	74 & 61	Melcooppam large Tank	31520
Vellore	82	Periangcooppum large tank	5430
Do.	81	Periangcooppum Chittary Tank	1210

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. Acres.	Assessment. Rs.	Average Revenue for 5 years. Rs.	Highest Revenue for 5 years. Rs.	Expenditure dur- ing previous 4 years. Rs.	Amount of Estimate.		
						Capital. Rs.	Revenue. Rs.	Total. Rs.
Chengadoo Tank	264	1164	1370			1030	2700	3130
Melcooppam large Tank	143	652	832			340	1700	31520
Periangcooppum large tank	121	982	970			1730	3700	5430
Periangcooppum Chittary tank	33	237	230			235	975	1210

II.—Hydraulic Details.

Name of Work.	Catchment Basin		Maximum Supply.		Length of Escape.		Average Height of Bund.		Surplus discharged at M. T. L. per Sec.	Tanks above.
	Area.	Catchment per Second	Channels per Second	Total.	Effective.	L.				
						Above F. T. L.	Above M. T. L.			
	Sq. M.	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.	C. ft.	No.	
Chengados Tank	4.5	1533	.	W 36	36	2.12	12	342.1	1	
Melcoopam large Tank	3	2	900	.	C 34	16	.	.	460	
Periangasoppum large Tank	10	264	.	W 61	61	.	.	106.7	.	
Periangasoppum Chittary Tank	2	893	.	nil	nil	.	.	0.0	.	

Note.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. In the M.S. the entries in red denote proposed dimensions. The following abbreviations are used:—C.—Catchment with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank.

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

Chengadoo Tank. The surplus tank has breached, and it is proposed to construct a masonry weir 120 feet in length in addition to the existing outlet of 36 feet, making a total length of 156 feet available for the surplus discharge. The estimate also provides for raising and

strengthening and repairing the bund.

Melcoopam large Tank. The existing Kalingulak for the discharge of the surplus is insufficient, and it is proposed to construct a masonry weir 60 feet in length in addition to the 16 feet of outlet, making an effective length of aggregate effective length of 76 feet available for the surplus discharge. The estimate provides for raising and repairing the bund, and constructing the weir.

Periangasoppum large Tank. The surplus of this tank crosses the southern branch of the Madras Rail-way at the 115 mile. The bund is reported to have breached, and the escape is insufficient.

The discharge of the surplus. The estimate provides for raising and repairing the bund, closing the breaches, repairing the sluice, extending

the weir and raising the revetment of the bund to M.T.L.

Periangcooppum Chittary Tank. This tank has no escape and the bund is reported to be in very bad order. The estimate provides for raising and repairing the bund, repairing the sluice, constructing a rough stone weir and revetting the bund. The surplus of this tank also crosses the line of Railway in the 115th mile.

In noticing the large outlay (compared to revenue) on the Periangcooppum Tank, the District Engineer explains that the water supply is ample and that if the irrigation is made safe the ayacut revenue will probably be increased by 20% crop cultivation.

The surplus both of this and the Periangcooppum

Chittary Tank crosses the Railway. The work proposed to be executed to the tanks generally is necessary for their safety and the estimates 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	Capital	Ordinary	Collected	Revenue	Surplus	Repairs	Total for each Tank
Malagah Rang.	Raising & strengthening the bund							2100
Chengado Tank	Constructing a masonry weir	1030						3130
Do	Constructing a masonry weir							1200
Ulcoppam Tank	Raising & repairing the bund	340						1540
Do	Constructing a masonry weir							
Periangcooppum	Raising and repairing the bund, closing the breaches & also repairing the sluice							3700
Do	Extending the existing weir & raising the revetment of the bund up to M.T.L. with new stones	1730						5430
Periangcooppum	Raising and repairing the bund and repairing the sluice							820
Chittary Tank	Constructing a rough stone escape							155
Do	New revetment to bund	235						1210

Accd. Sd.

Major Rb.

Depy. Chief Insp. for Insp. for Chief Insp. for Insp.

To The Secretary to Government P.W.D.

per 1895 Sept
No: 2599

From

The Chief Engineer
for Irrigation

Dated 31 March 1896
Recd 12 April 1896

C. 23 No. 30 W.

Note on letters of
D. E. H. Areat submit-
ting plans etc. for
irrigation works

E. I. Form No. 3.

No 1008 721 April 1896

The following Estimates for Irrigation
works in the Wallajah & Vellore Ranges,
North Arcot District, forwarded by the
Chief Engineer for Irrigation with his Memo.
marginally noted are sanctioned:—

No. 30 W
dated 11th March 1896.

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Wallajah Range	Raising & strengthening the bund	Revenue Repairs	2100 $\frac{6}{1}$	61
Chengaloor Tank	Constructing a masonry weir	Capital Ordinary	1080 $\frac{1}{2}$	
Melcoopam Tank	Raising & repairing the bund	Revenue Repairs	1200 $\frac{1}{1}$	71
Vellore Range	Constructing a masonry weir	Capital Ordinary	340 $\frac{1}{2}$	
Periangoor-pum Large Tank	Raising & repairing the bund, closing the breaches & repairing the sluice	Revenue Repairs	3700 $\frac{8}{1}$	81
	Extending the existing weir & raising the revetment of the bund	Capital Ordinary	1780 $\frac{8}{2}$	
Periangoor-pum Chittay Tank	Raising & repairing the bund & repairing the sluice	Revenue Repairs	820 $\frac{1}{1}$	91
	Constructing a rough stone escape	Revenue Retention & Improvements	155 $\frac{1}{2}$	
	New revetment to bund	Capital Ordinary	235 $\frac{1}{3}$	

These sanctions are

No 302

18.4.96. Dia 21.4.96
13-4.96.

