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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Rev DEPARTMENT

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B.P. No.		Mis.
Dated	18.9.1896	196

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2181

*Proceedings of the Madras Government, Public Works Department,
25th August 1876. No. 2,257.*

Read the following:—

No. 14-W.

No. 588.

Note by the Chief Engineer for Irrigation.

The following estimates from the Chittoor and Poloor Ranges are forwarded by
the Officiating District Engineer, North
No. 507, dated 11th May 1876.
of, with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Chittoor	Mahimundalum	V. Tank	Rs. 2,700
Do.	Gengatharanelloor	V. Tank	2,680
Wandiwash	Agaracoraotah	V. Tank	780
Do.	Cadagamboondy	V. Tank	550

2. The Financial and Hydraulic details of the Irrigation works concerned are exhibited in the following statement:—

I.—Financial Details.

Name of Work	Ayacut Acre.	Assessment.	Highest Revenue for 5 Years.	OUTLAY.			
				During the previous 4 years.	PROPOSED.		
					Capital.	Revenue.	Average Annual Proportion of Charges to Revenue.
Mahimundalum Tank	151	1,265	1,275	Rs. 25	Rs. 910	Rs. 1,790	Rs. 42.3
Gengatharanelloor do.	122	1,081	1,081	Not stated.	1,110	1,570	49.5
Agaracoraotah do.	25	199	199	...	130	600	76.0
Cadagamboondy do.	25	212	212	...	120	430	55.2
Total ...	323	2,757	2,747	...	2,270	4,390	48.4

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		DEPTH of APE.		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.	
Mahimundalum Tank	...	2.5	1,036	...	W 1 09	72	55	Not Stated.	491.5	5
Gengatharanelloor Tank	...	3	1,170	...	W 1 09	82	109	4.50	1,035.8	3
Agaracoraotah do.	...	5	354	...	W 1 22	22	122	4.50	1,159.3	Nil.
Cadagamboondy do.	...	27.5	293	...	E 25	25	45	4.50	360	...
					E 25	25	36	4.50	288	

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.—Catchment with dam stones. W.—Weir with flush bridge.
E.—Escape at ground level. B.—Bund of tank. V.—Village.

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

Mahimundalum Tank.—Repacking the revetment of the bund with old and new stones, repairing the northern sluice and calingulah, and converting the latter into a weir, constructing an irrigation sluice, reconstructing and extending the northern calingulah and converting it into a weir, and reconstructing a dam across the surplus channel.

Gengatharanelloor Tank.—Raising the bund, rebuilding the revetment with old and partly new stones, converting it into a weir, rebuilding and converting the east end calingulah and converting it into a weir, and reconstructing the surplus sluices.

Agaracoracotah Tank.—Raising the bund and constructing a dry stone escape. There is apparently no need for such a large estimate as is done for 1 Anna a cubic yard and a quantity to more than half the earthwork planting where necessary should be reduced for general turfing. The estimate has been reduced to Rupees 730 as shown.

Cadagamboondy Tank.—Raising the bund, closing the breach and constructing a dry stone escape. The estimate has been reduced to Rupees 550 as shown.

4. The tunnel of the new irrigation sluice for the Mahimundalum tank is unnecessarily long. The face wall must be built at the point where the line of F.T.L. intersects the slope of the bund. The top wall at the outlet end of the tunnel can be lowered, if the rear slope of the canal is properly sectioned.

The condam or weir across the surplus channel might, it is considered, with advantage be superseded by an underground tunnel which would be less costly in the first instance, and less expensive to maintain. If circular wells carried up above flood level at either end be provided, underground tunnels are an inexpensive means of passing irrigation water across surplus channels.

The remark in reference to the Mahimundalum tank sluice applies to those designed for the Gengatharanelloor tank. The bund should be cut down to a reasonable section and, if necessary, a channel approach to the sluice vent should be made.

The remaining estimates require special remark.

It should be observed that where works have been here estimated for as for reconstruction there is no specific deduction for the value of old materials. It should be ascertained that credit has been given in such cases either by reduced rates or in some shape or other.

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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 Work.	FUND—ORDINARY AGRICULTURAL.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Mahimundalum Tank	Repairing revetment and irrigation sluice	400	1,210	2,700
	Weir	510	...	
	Condam or weir	...	580	
	Repairing bund and rebuilding the west weir	...	890	
Gengatharanelloor Tank	East weir	540	...	2,680
	Repairing sluices	570	...	
	Do. the bund	...	680	
Agaracoracotah do.	Escape	130	...	730
Cadagamboondy do.	Repairing the bund	...	430	550
	Dry stone escape	120	...	

OOTACAMUND,
19th August 1876.

(Signed)

A. DEC. SCOTT, Major, R.E.,
Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 589.

ORDER THEREON, 25th August 1876, No. 2,257.

IRRIGATION, No. 62.

Account.

No. 149-W., dated 19th August 1876.

The following estimates for Irrigation in the Chittoor and Poloor Ranges, North Arcot District, forwarded by the Chief Engineer for Irrigation with his Memorandum marginally noted are sanctioned.

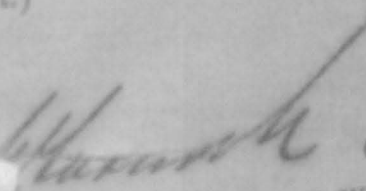
Irrigation

Name of Tank.	Provision of Estimate.	Fund—Ordinary Agricultural.	Amount.	Irrigation Register No.
			RS.	
Mahimundalum Tank	Repairing revetment sluice and calingulah.	Repairs	1,210	1
	Irrigation sluice	Original Works	400	2
	Weir	Do.	510	3
	Condam or weir	Repairs	580	4
Gengatharanelloor Tank	Repairing bund and revetment	Do.	890	1
	Rebuilding the west weir	Original Works	540	2
	East weir	Do.	570	3
	Repairing sluices	Repairs	680	4
Agaracoracotah do.	Repairing the bund	Do.	600	1
	Escape	Do.	130	2
Cadagamboondy do.	Repairing the bund	Original Works	430	1
	Dry stone escape	Repairs	120	2

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25th August 1876. No. 2,257.

2. These sanctions are registered & shown above.

(Extract.)


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

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No. 546
 Dec. 1876: Dept
 Govt. of 1876: Madras.
 PUBLIC WORKS.

Sept 18th

No 2181

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