

(1) Number of pages _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	111	(2)	Press
B.P. No.			Mis.
Dated	20	1	1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th January 1876.*

Read the following :—

No. 215.

No. 37.

MEMORANDUM.

The following estimates are submitted by the Superintending Engineer, Chingleput* :—
* With his letter No. 3,093, dated 22nd October 1875.

- (1).—Repairing the Coonnallam Tank in the Trivellore Taluq.
- (2).—Repairing the Arasoor Tank in the Ponnary Taluq.

The financial and hydraulic details of these irrigation works are exhibited in the following tabular statements :—

I.—Financial Details.

1 Name of Work.	2 Ayacut Area.	3 Assess-ment.	4 Average Revenue in 5 years	5 Highest Revenue in 5 years.	6 Expenditure on repairs during previous 4 years.	7 AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. Coonnallam Tank ...	188	647	330	427	49	...	675	...
2. Arasoor Tank ...	182.9	874	955	991	720	455.5	1,165.5	1,620

II.—Hydraulic Details.

Name of Work.	Catch-ment Area.	MAXIMUM SUPPLY.		LENGTH OF WEIR.		MINIMUM HEIGHT OF BUND.		Weir discharge at M.T.L.	Tanks above.
		Catch-ment.	Channel.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
	SQUARE MILES.	C. FT. PER SECOND.	C. FT. PER SECOND.	FEET.	FEET.	FEET.	FEET.	C. FT. PER SECOND.	No.
1. Coonnallam Tank.	3.0	1,170	Nil.	108	101.5	3.0	1.0	Data in-sufficient.	Not stated.
2. Arasoor Tank ...	4.0	1,417	Nil.	None.	None.	3.0	1.5	None.	Do.

COONNALLAM TANK.—The hydraulic conditions obtaining in the case of this tank are not clearly shown. The maximum tank level is assumed at 4 feet above the body wall of the masonry weir, or 2 feet above F.T.L., which is apparently assumed at the level of the crest of the bund placed between the dam stones.

The M.T.L. is excessive, and it should be reduced to a moderate height by lowering the natural escape. Three feet depth of discharge over the weir body should be the greatest allowed in this instance. The natural escape may of course be banded to the level of the top of the dam stones, so long as the level of the ground line is such that when the escape is in action it shall suffice, in conjunction with the masonry weir, to prevent the water-level in the tank rising above the M.T. level now assigned.

The estimate provides for raising and sectioning the bund, and for the repair of the calingulah and a sluice, both of which are damaged. The amount, Rupees 675, is debitable to Revenue.

*Proceedings of the Madras Government, Public Works Department,
20th January 1876.*

ARASOOR TANK.—This tank is unprovided with any means for the escape of surplus water, and it is proposed to remove the bund for a length of 184 feet and to protect the ends with rough stone. A section of the ground at the site of the proposed escape should have been given and its nature stated. The bund itself is reported to consist of weak loam. The depth of water proposed to be discharged is 1.5 feet, and this length with a *clear overfall* would suffice, but the nature of the escape precludes the idea of such a condition. The length of crest should be increased to 250 feet. The inner bund slope is to be increased to 2 to 1.

The estimate, amounting to Rupees 1,620, is debitable as shown below:—

	Capital.			Revenue.		
	RS.	A.	P.	RS.	A.	P.
Turfing bund	360	13	0			
Planting navel	94	11	0			
Repairing sluices and bund				1,165	8	0
	455	8	0	1,165	8	0

(By order,)

(Signed) A. DE C. SCOTT, Major, R.E.,
Asst. Chief Engineer, Irrigation Dept.

FORT ST. GEORGE,
8th January 1876.

No. 216.

ORDER THEREON, 20th January 1876, No. 111.

IRRIGATION, No. 17.

Account.

The following estimates forwarded by the District Engineer, Chingleput, are sanctioned:—

	Capital.			Revenue.		
	RS.	A.	P.	RS.	A.	P.
Repairing the Coonnavaillam Tank, Trivellore Taluq ...				675		
Total ...				675		
Repairing the Arasoor Tank, Ponnary Taluq ...	455	8	0	1,165	8	0
Total ...				1,621		

(True Extract.)

Major-General, R.E.,
Secretary to Government.

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

Exd. S. T. Austin.
Spare Copies

FORMER CASES.

Current No.

of 187

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1876 Sep

Current No.

227

From

The Chief Eng
for Irrigation

No. 27

Dated

8 Jan'y. 3 1876.

Recd. 12th

Subject:— Memo. on the
Estimates forwarded
to Cominavalur
Arasoor tanks, Ch
Gepur Dist.

LATER CASES.

Current No.

of 187

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Enclosures.

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From

to

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G.O. No 111. 20. 1. 76.

Orders and Proceedings in file

Depart- ment.	No.	Date.	ENDORSEMENTS.		
			Depart- ment.	No.	Dated
P. W. D.	962	28th Jan'y 1876			

N^o 215
20/1/76

No 111

Ir. P. W. Dept.

Proceedings of the Madras Government.
20 Jan'y 76.
Read the following

From

The Chief Eng for Irrigation (G.O. No 3798th Jan'y 1876)

The following estimates
forwarded by the District Engineer
Chingleput are sanctioned.

Capital. Revenue	
Repairing the Comma- -vallant Tank Trivellon Tahug	675
Total -	675.

Repairing the Arasoor Tank Ponnary Tahug	455-8	1165-8
Total -	1621.	

As per

G.M.

To the District Engineer
Chingleput
with 3 Enclosures
Controller P.W. Accounts.
Rev. Dept.

29-1-76

227

Sept. 11 1876

PUBLIC WORKS.

Supr. Eng. Chingfat.

2/17

20 Jan 11

215-216

Commanalun and Brato
Porter Chingfat dit

The Estimate amounting to
Rs. 2296 for repairing the
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