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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.	722	Press
B.P. No.		Mis.
Dated	21-3-1876	196

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*Proceedings of the Madras Government, Public Works Department,
8th March 1876.*

Read the following:—

No. 242.

No. 92. *Note by the Chief Engineer for Irrigation.*

THE following estimate from the Sidhout Range is forwarded by the District Engineer, Cuddapah, with his letter marginally noted:—

Taluq.	Estimate No.	Work.	Amount. RS.
Pullumpett.	187 .	Davasamoodrum Tank.	3,980

2. The financial and hydraulic details of the Irrigation work concerned are exhibited in the following statement:—

I.—Financial Details.

Name of Work.	Aycent Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
Davasamoodrum Tank ...	ACRES. 133	RS. 1,115	RS. 1,271	RS. 1,492	RS. ...	RS. 680	RS. 3,300	RS. 3,980

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 Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Davasamoodrum Tank ...	SQ. M. 20	C. FT. 3,765	C. FT. ...	FT. W. 113 W. 381	FT. 113 381	FT. 2.93 4.5	FT. 98 2.5	C. FT. 1,074 3,621	No. ...

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. Culingulab 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.

Davasamoodrum Tank.—This tank is situated above the line of railway, and it is reported that the revetment is loose and needs reconstructing, and that the bank needs raising to a uniform height of $1\frac{1}{2}$ feet above weir level with a breadth of 6 feet

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at the top of the bank. The top and rear slope to be gravelled. It is further reported that the water passing round the south end of the bank submerges a considerable extent of dry cultivation, to obviate which a new check bank from the south weir is proposed to be constructed, and as the existing weir at the north end of the bank is composed of rough stone irregularly laid, and its length considered insufficient, it is proposed to construct a new masonry weir 268 feet in length in its stead.

4. The chief expenditure in this estimate is for rebuilding the revetment, partly with new stone, and partly with old material. Some description of the old work is necessary. The size of the stones used, the manner of laying them, whether pitched or in horizontal beds stepped back, and the cause of the failure described to have taken place, should be detailed. The size (minimum) of the new stones and not only the depth should be given and the manner of laying described. It will not be practicable to tamp the face of a slope of 45° laid with gravel as proposed before revetting. The vertical blow of the rammer dislodges material. The gravel backing and the stone work will have to proceed simultaneously, and the consolidation of the former will be effected by punning the gravel laid between the beds of the stones and the face of the bund.

The existing lengths of weir appear to be 162 feet at the north, and 113 feet at the south end of the bund, total 275 feet; but the low ground to the south of the southern weir acted as an additional escape of about 190 feet in length. Practically, therefore, the construction of the new north weir with a length of 268 feet combined with the closing of the southern gap leaves the work with somewhat less means of relief than before. It will, however, suffice.

5. The following statement shows the proposed debit of the expenditure recommended for sanction to the several heads of account involved:—

Name of Tank.	Nature of Work.	HEADS OF ACCOUNTS.			
		Capital, Ordinary.	REVENUE.		Total for each Tank, Rs.
			Extensions and improve- ments.	Repairs.	
		RS.	RS.	RS.	RS.
Davasamoodrum Tank...	Providing a new weir at the north end of the bund	680	...	...	3,980
Do. do. ...	Rebuilding the revetment	...	...	3,300	

(Signed) A. DEC. SCOTT, Major, R.E.,
Asst. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

No. 93. ORDER THEREON, 8th March 1876, No. 609.

IRRIGATION, No. 11.

Account.

The following estimate for Irrigation
work in the Sidhout Range, Cuddapah
District, forwarded by the Chief Engineer

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8th March 1876.*

for Irrigation with his memorandum, No. 242, dated 28th February 1876, is sanctioned:—

Davasamoodrum Tank.—Rebuilding revetment, &c.	Revenue (repairs).	Rupees 3,300
Do.	Providing a new weir, Capital, Ordinary, do. ...	680
	Total ..	3,980

This estimate is registered as Irrigation No. 34 I. of 1875-76.

(True Extract.)

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

To the District Engineer, Cuddapah.
" Collector of do.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department. ✓

Exd. E. C. Shunker.

Spare Copy.

Revenue Department
No. 1183

Publ. of 1870
PUBLIC WORKS.

THE DISTRICT ENGINEER,
CHUMALAT,
Co. Co. Co.

Dated March 24th.

To the

and to the

G. O., 24 March 1870, No. 100.

RECEIVED
Mar. 22 83

9 Feb. 1870 of 1870-1871

The Commission of the District Engineer,
— Estimate amounting to Rs. 10,000 for
requiring the land for a new
weir, sanctioned.

N. 722
Communicated to the
Adopted

22. 11. 76 21. Mar 76

Dated

196

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