

(1) Number of pages _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No	609	(2)	Press
B.P. No.			Mis.
Dated	8.3.		1876.

Not to be folded or roughly handled

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.	Aysout Area.	Assessment.	Average Revenue for 6 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
Davasamoodrum Tank ...	ACRES. 133	RS. 1,215	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 98 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. Callingulah 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 $4\frac{1}{2}$ feet above weir level with a breadth of 6 feet

19.7

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

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. Extensions and improve- ments.	Repairs.	Total for each Tank, &c.
Davasamoodrum Tank...	Providing a new weir at the north end of the bund ...	Rs.	Rs.	Rs.	Rs.
Do. do. ...	Rebuilding the revetment ...	680	...	3,300	3,980

(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

*Proceedings of the Madras Government, Public Works Department,
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. ...	do. ...	680
	Total	3,980

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

(True Extract.)

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 Copies

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.
	Sq. M.	C. ft.	Catchment per Second	Channels per Second	Total.	Effective.	Above F. T. L.	Above M. T. L.		
							Ft.	Ft.		
Parasamondram Tank	20	3765	rib	113	113	2.98	98	10 1/4	rib	

NOTE.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. In the M. T. L. the entries in red denote proposed dimensions. The following abbreviations are used:—C.—Calingulab 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.

Parasamoodram Tank. This tank is situated above the line of Railway, and it is reported that the revetment is loose and needs re-constructing, and that the bank needs raising to a uniform height of $4\frac{1}{2}$ ' above weir level with a breadth of 6 feet at the top of bank. The top and

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, is irregularly laid, and its length considered insufficient, it is proposed to construct a new masonry weir 260 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

be detailed. The size (minimum) of the run 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

Notes for the ...
 Charanpuri ...
 ...

struction of the new north weir with a length of 260 feet combined with the closing of the southern gap leaves the work with somewhat less means of relief than before. It will however suffice.

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

Name of Work	Heads of Accounts				Total for each head
	Capital	Ordinary	Revenue	Expenditure	
Providing a new weir at the north end of the bund			680		680
Re-building the revetment				3300	3300
					3980

And Sd/-

Major R.B.

Asst. Chief Engineer for Irrigation
 for Chief Eng. for Irrigation

To The Secretary to Government
 P. B. No. 2, P. B. No. 2, P. B. No. 2

P. W. 1876 Dept.
No: 1591

From

The Chief Engr.
for Irrigation

Dated 28th Feb: 1876.
Recd. 4 March 1876.

G. O. No. 242.

Note on Exh. to, for
putting in good order
the Navasamoodrum
Tank in Pithampur
Taluk.

No 8 March 76 P. W. 92

W 4-3-76.

609 Public Works Dept.
Proceedings of the Madras Government
Under date the 8th March 76.
Read the following:

From
The Chief Engineer
for Irrigation } (M. No. 242 of 28 Feb 76)

The following
estimate for Irrigation
work in the Pithampur
Range, Cuddapah
District, forwarded
by the Chief Engineer
for Irrigation with
his Memo. No. 242 dated
28th February 1876, is
sanctioned.

Navasamoodrum Tank. Rebuilding
revetment & Revenue
repairs Rs. 3300.

— O. — Providing a new well
Capital Outlay - " 600
Total 3900.

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

2. The District
Jehant and Engineer

to D. J. M.

Engineers will report
 further in reference
 to the remarks
 in the fourth para
 of the Chief Engineer
 note to that Officer.

Aug 1

[Faint, mostly illegible handwritten notes in cursive script, possibly detailing survey or engineering observations.]

92-93
[Faint handwritten notes]

Camp 22d Cin 4-3-76

D. E. Cuddapah - 5
 Collector - do - 5
 C. E. for J. with G. G. P. Enclos
 Rev. Sept. 15
 Dispa 20-3-76 17

1591

Gobt. of 118761 Madras.
PUBLIC WORKS.

To

The St Engineer
Cuddapah

9/3

Pa'd

Issued

Recd

Emd

G. O. 8th March 76, No. 607

Nos. 92-93

Tavasamoodram Tank.
Cuddapah Dist

Estimate amounting to Rs.
3980 for repairing the —
and for providing a new
weir, sanctioned.