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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.	1665	Press
B.P. No.		Mis.
Dated	17-7-1876	196

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
20th June 1876. No. 1,536.

Read the following:—

No. 67 W.

No. 343.

Note by the Chief Engineer for Irrigation.

The following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, with his letters marginally noted:—
No. 4,677, dated 28th February 1876.
" 451, " 13th May 1876.

Taluk.	Village.	Work.	Amount.
Chingleput ...	Govinda Medu...	S. No. 231 V. Tank ...	RS. 765
Conjeveram ...	Padur ...	S. No. 302 V. Tank ...	532

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.	Assessment.	Average Revenue for 4 years.	Highest Revenue for 5 years.	OUTLAY			
					During the previous 4 years.	Proposed		
						Capital.	Revenue.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Govinda Medu Tank ...	166	341	400	495	NIL.	...	765	35.2
Padur Tank ...	56	412	441	565	NIL.	...	532	24.1

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.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.		
Govinda Medu Tank ...	2	893	...	E 220 C 200 W 24	220 200 24	3.50 6.00 4.25	1.50 3.00 1.50	1,300.7 950.3 349.5	...
Padur Tank ...	0.533	370	...	W 24	24	4.25	1.50	367.7	Not stated.

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.—Callogul 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:—

Govinda Medu Tank.—Raising and repairing the bund, and forming an escape planted with grass, and reconstructing an irrigation sluice.

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Padur Tank.—Raising and repairing the bund, repairing two irrigation sluices, planting grass, repairing and converting the calingulah into a weir.

4. The vent of the sluice to be reconstructed in the bund of the Govinda Medu tank is unnecessarily large. The head of the aperture may be lowered $1\frac{1}{2}$ feet with advantage. This will enable the plug-hole also to be placed at a lower level, thus increasing its discharge and enabling it to be used for a longer time.

5. The arrangement of the plug-holes of the sluices of the Padur tank is apparently incorrectly shown on the sections, and this should be seen to before the work of reconstruction is carried out. The rear wall and wings may be much reduced if the bund be placed as shown by the dotted lines, and if this be impracticable, the sluice tunnel should be lengthened 12 feet, and then a low wall and wings will suffice. The design manifestly does not satisfy the conditions of the site. The Superintending Engineer should not have passed on a plan so drawn. The Range Officer says that the crest of the surplus weir is 1 foot above proper full tank level, and apparently he has come to this conclusion on the ground that the tank at the reduced level will hold more than enough water for the cultivation. The discharge shown is equivalent to 25 inches of rainfall drainage in twenty-four hours, and it is thought that the tank will be quite safe if the crest be lowered 6 inches. It is intended to close the sluice vents in the weir, but, unless there be some adequate reason for so doing, it may be as well to retain them.

6. The Range Officer has supplied a survey of the catchment basin of the tank and has contoured the tank bed. The calculated content which has also been noted should have been made out by calculating the arrears described by the contours at each level and finding the content of the section cut off by the plane of each contour. Apparently the arrears of the cross sections have been taken and multiplied by the horizontal distances between them. The data afforded by the contours and survey will be useful, and it is satisfactory to notice that the Range Officer has taken the pains to carry out the investigation.

7. The estimates are recommended for sanction.

8. 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 Estimate.	FUND.			
		Capital, Ordinary.	Extensions and Improvements.	Repairs.	Total for each Tank, Rs.
Govinda Medu Tank	Raising and repairing the bund, and forming an escape planted with grass.	Rs.	Rs.	Rs.	Rs.
	Reconstructing an irrigation sluice	...	...	470	765
Padur Tank	Raising and repairing the bund, planting grass, repairing the two irrigation sluices	...	...	295	...
	Repairing and converting the calingulah into a weir...	...	...	532	532

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

OOTACAMUND,
7th June 1876.

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
20th June 1876. No. 1,536.

No. 344.

ORDER THEREON, 20th June 1876, No. 1,536.

IRRIGATION, No. 23-AAA
Account.

No. 67 W., dated 7th June 1876.

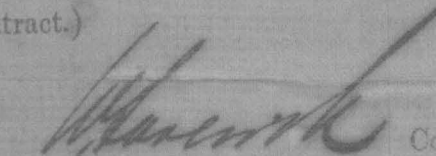
The following estimates for Irrigation Works in the No. 3 or Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

Irrigation.

Name of Work.	Item of Estimate.	Fund.	Amount.	Irrigation Registry No.
Govinda Medu Tank...	Raising and repairing the bund, and forming an escape planted with grass.	Ordinary Agricultural Repairs.	Rs. 470	1 } 50 L.
	Reconstructing an irrigation sluice	Do. do.	295	2 } 61 L.
Padur Tank	Raising and repairing the bund, planting grass, repairing the two irrigation sluices, repairing and converting the calingulah into a weir.	Do. do.	532	

2. These sanctions are registered as shown above.

(True Extract.)

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

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

Esd. A. Grubert.

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Revenue 1875 Department
Gobl. of 1876 Madras.
PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
CHINGLEPUT.
&c., &c., &c.

Dated June 20th.

Traced

Recd. 15 July 1876

Encl.

G. C. 20th June 1876, No. 1526.

JUNE.

Nos. 343-344.

Do. Mrs.

T. and S. Chingleput District. - Estimate for
the repair of certain - sanctioned.

Noted
Communicated to the S. of the

7.76

17 July 1876

11 Loh. Board of Revenue D. 2. July