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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	3306	Press
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Dated	7 - 12	1876
		195

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*Proceedings of the Madras Government, Public Works Department,
7th December 1876. No. 3,306*

Read the following —

No 275 W.

No 142.

Note by the Chief Engineer for Irrigation

The following estimates from the Wallajah Range are forwarded by the District Engineer, North Arcot, with his letter No 1,087, dated 4th July 1876 marginally noted —

Swarnamooky River Channel

Taluq	Village	Work.	Amount
Chendragherry		Agarala Pedda Calvah	Rs 2,050
Do		Thondavada Yagavah do	1,390

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 5 years	Highest Revenue for 5 years	During the previous 4 years	OUTLAY		
						PROPOSED		
						Ordinary Agricultural		
						Original Works	Repairs	Average annual proportion of charges to Revenue
	ACRPS	RS	RS	RS	RS	RS	RS	RS
Agarala Pedda Calvah	35	663	663	Not stated		620	1,430	61 8
Thondavada Yagavah Calvah	27	525	546	Do		620	770	50 9
Total	62	1,188	1,209			1,240	2,200	56 9

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 Second	Tanks above
		Catchment per Second	Channels per Second	Total	Effective	Above F T L	Above M T L		
Agarala Podda Calvah	SQ M	C FT	C FT	FT	FT	FT	FT	C FT	NO
Thondavada Yagavah Calvah	.	..	..		..	..	..	.	.

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—Canal with dam stones W—Weir with flush crest, E—Escape at ground level. B—Bund of tank

J. J. H. A. Dept. of P. W. D. No. 25-12-70

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

Restoration of the channels of the Swarnamooky river, viz, the Agarala Pedda and Thondavada Yagavah channels, the former was destroyed by the floods of November last, and the latter by the floods of October 1874. The estimate provides for reforming the channels by removing the silt and placing it on the side nearest the river to a height of 9 feet so as to form a barrier to the flood waters of the Swarnamooky river, for the further protection of the channels the heads are proposed to be revetted with rough stone in mortar and the exposed portions protected with vaviler planting by kudi maramut.

4 The clearance of the channels is necessary, as they appear to have been completely filled up by the floods—a danger to which they are evidently constantly exposed. The work is also too heavy to be carried out by the ryots themselves. Judging from the plans forwarded, the circumstances of the numerous channels supplied by this part of the Swarnamooky are such as to make their efficient maintenance necessarily very difficult and probably costly, and it appears to be desirable to consider whether it would not be practicable greatly to diminish the number of separate heads and to supply the irrigation from a few careful selected offtakes not liable to be easily destroyed. Then with regulating head sluices any serious damage might perhaps be obviated.

5 The masonry revetments to be safe must be securely founded and protected by adequate aprons to prevent undermining. The very slight indication shown on the sections of the way in which these revetments are proposed to be built shows that it is not desirable to incur any expense on their account, and it will be much better to plant the banks and the bed of the river for a width of a few yards with nanul or other long grass, for which purpose an addition has been made to the repair estimates.

6 It is not at all apparent why the channels should be cleared to a much greater width in the upper than in the lower part, and the District Engineer should see that no unnecessary excavation is allowed. The excavation also must be mostly in sand, and the average rate ought not to exceed 1 Anna instead of $1\frac{1}{2}$ Annas as allowed in the estimates.

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, ORDINARY AGRICULTURAL.		Total for each Tank, &c.
		Original Works	Repairs	
Agarala Pedda Calvah Thondavada Yagavah Calvah	Clearing the channel and planting grass Clearing the channel	Rs 1 480 820	Rs 1 480 820	Rs 1 480 820

FORT ST GEORGE,
10th November 1876

(Signed) A DEC. SCOTT, Major, R.E.,
Dy Chief Engineer for Irrigation
To the Secretary to Government, Public Works Department

*Proceedings of the Madras Government, Public Works Department,
7th December 1876. No 3,306.*

No 143

ORDER THEREON, 7th December 1876, No 3,306

IRRIGATION, No 16-B
Account

THE following estimates for Irrigation works in the Wallajah Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned —

No 275 W, dated 30th November 1876

Name of Work	Item of Estimate	Fund.	Amount	Irrigation Registry No
Agarala Pedda Calvah Thondavada Yagavah Calvah	Clearing the channel	Repairs	Rs 1,480	201 I
	Do do	Do	820	202-I.

2 These sanctions are registered as shown above

(True Extract)

Major-General, R E,
Secretary to Government

To the District Engineer, North Arcot
" Collector of do
" Examiner of Public Works Accounts
" Chief Engineer for Irrigation
" Revenue Department

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23-12-76

No 275-W
dated 30th November 1876.

marginally noted are sanctioned —

Name of Work	Item of Estimate.	Fund	Amount	Irrigation Registry No.
Aparala Pessa Calahi.	Clearing the Channel.	Repairs	1480	201
Thondavada Yagava Calahi.	Clearing the Channel.	Repairs	820	202

2. These functions are registered as shown above -

Chitt *Ames*

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Govt. of 1876 Madras.

PUBLIC WORKS.

To The M. & S. R. Co.

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G. O. No. 1876, No. 500

Nos. /.

Swarnamoorhy river
Channels. R. A. Co. R.
Estimate for restoration
of the ———— Sanctioned.

Est. in R. Co.