

(1) Number of pages 4

(2) Date of repair 5-3-1981

(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	3640	Press.
B.P. No.		Mis.
Dated	27-6-1877	197

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

14th June 1877, No. 81 I.

Irrigation.

Account.

Read the following paper:—

No. 44 I.

No. 53. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Virdachellam Range are forwarded by the District Engineer, South Arcot, with his letter marginally noted:—
No. 12, dated 14th April 1877.

Taluk.	Village.	Work.	Amount.
Virdachellam	Poovanoor	V. tank	Rs. 1,050
	Commapuram	V. small tank	996
	Total		2,046

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

I.—Financial Details.

Name of Work.	Aqueat Area.	Assessment.	Average Revenue for five Years.	Highest Revenue for five Years.	During the previous four Years.	OUTLAY.		
						PROPOSED ORDINARY AGRICULTURAL, IRRIGATION.		
						Original Works.	Repairs.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	Per Cent. RS.
Poovanoor tank	54	215	268	Not stated	Nil.	514	536	78.3
Commapuram small tank	19	122	134	...	...	210	550	113.4
Total	73	337	402	...	...	724	1,086	90.0

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.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Poovanoor tank ...	2	672	..	{ K 29 K 15 E 29 E 91 Nil.	..	1'5	0'0	..	Nil.
Commapuram small tank ..	1.5	737	..	{ W 150 150	120 150	4'0	2'5 3'0	610'9 763'6	"

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.—Calingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village.

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

Poovanoor Tank.—The bund of this tank is low and weak. The southern calingulah, which is constructed of rough stone, is 29 feet in length with crest at F.T.L., and is in good order. The dam stones are to be removed. The northern calingulah is in a ruined condition, and is to be banked up after the removal of the materials, and a rough-stone escape, 91 feet in length, is to be provided at the north end of the bund so as to make an aggregate effective length of 120 feet available for the surplus discharge.

This tank has only one sluice, which is in a ruined and useless condition, and needs to be reconstructed.

The estimates provide for—

- 1st.—Raising to 2'5' + M.W.L. and repairing the bund, in which is included the closing of the northern calingulah.
- 2nd.—Reconstructing an irrigation sluice.
- 3rd.—Constructing a rough-stone escape.

The estimates are recommended for sanction; but in construction care must be taken to make the tunnel of the irrigation sluice large enough to allow of interior inspection, not less than 2 feet broad and 2 feet 6 inches high.

Commapuram Small Tank.—The bund of this tank is low and weak, and the irrigation sluice is in need of repair.

The surplus is discharged at the north end of the bund by means of a codi or channel cut where necessary.

The estimates provide for—

- 1st.—Raising and repairing the bund and repairing the irrigation sluice.
- 2nd.—Constructing a masonry weir.

The outlay proposed is nearly $7\frac{1}{2}$ times the revenue, and the Collector has objected to sign the estimate. The District Engineer says, he does not see how it can be reduced; but in a small tank of this kind, with a drainage basin of only $1\frac{1}{2}$ square miles and irrigating some 20 or 21 acres, there is no necessity for a margin of 3 feet above M.W.L., and by making M.W.L. 1 foot higher, and discharging $2\frac{1}{2}$ feet of water over the proposed escape, its length can be reduced from 150 to 60 feet, and Rupees 236 can be taken out of its estimate. Probably no other reduction is feasible, and if the tank is to be repaired at all it must be done properly. The reduced estimate is recommended for sanction subject to the Collector being allowed an opportunity of expressing an opinion as to whether the continued up-keep of the tank is desirable.

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, IRRIGATION.		Total for each Tank, &c.
		Original Works.	Repairs.	
		RS.	RS.	RS.
Poovanoor tank ...	Raising and repairing the bund ...	...	536	1,050
	Reconstructing an irrigation sluice ...	284	...	
	Constructing a rough-stone escape ...	230	...	
Commapuram small tank ...	Raising and repairing the bund and repairing the irrigation sluice ...	...	550	760
	Constructing a masonry flush escape ...	210	...	

(Signed) G. T. WALCH,
Ag. Deputy Chief Engr. for Irrigation,
for Chief Engineer for Irrigation.

Fort St. George,
7th June 1877.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 54.

ORDER THEREON, 14th June 1877, No. 81 I.

The following estimates for irrigation works in the Virdachellam Range, South Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural. Main Head, Irrigation.	Amount.	Irrigation Registry No.
Poovanoor tank ...	Repairing bund ...	Repairs ...	536	64 I.
	Reconstructing sluice ...	Original Works.	284	
	Escape ...	Do. ...	230	
Commapuram small tank ...	Repairing bund and sluice ...	Repairs ...	550	65 I.
	Escape ...	Original Works.	210	

2. These sanctions are registered as shown above.

3. The sanction of the second work will be subject to the Collector's concurrence in the propriety of continuing to maintain the tank.

(True Extract.)

Lt.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the District Engineer, South Arcot.
" Collector of South Arcot.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.
Ed. T. D. Ryan.
Spare Copies

Revenue Department

N^o 3058.

IRRIGATION.
ACCOUNT.

Govt. of 1877 Madras.

PUBLIC WORKS. ✓

To

The DISTRICT ENGINEER,

SOUTH ARCOT.

&c., &c., &c.

Dated June 14th.

Issued

Recd.

26 June

Encl.

G. O., 14th June 1877, No. 81 I.

De Muz

JUNE

Nos. 53-54.

N^o 3640
Comm^d to the
Board of Revenue

27 June 77

Papanoor and Commapuram Small Tanks,
South Arcot District. — Estimates amounting
to Rupees 1,810 for repairs, &c., to the —
sanctioned.

95 to the 14th of June 1877.