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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	37	Press.
B.P. No.		Mis.
Dated	7. 1. 1878	197

Not to be folded or roughly handled.

32

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

18th December 1877, No. 614 I.

Irrigation.
Accounts.

Read the following papers:—

No. 62. From Lieutenant-Colonel
Engineer, North Arcot, to the Chief
Engineer, dated 16th November 1877, No. 2,939

L. PRENDERGAST, R.E., District
Engineer for Irrigation, dated Vellore,

I HAVE the honor to submit for sanction

estimates of Rupees 900 and 810 for
repairing and improving the Palavary
and Mailnamoondy tanks in the Wand-
vash Taluk.

- 1 Sketch.
- 2 Sections.
- 4 Detailed Estimates.
- 4 Abstract do.
- 1 Hydraulic Statement.

2: The Palavary tank lies on the
boundary of the taluk; there are no tanks
above, and it discharges its surplus into

the Vellimodoo tank which is the uppermost tank in the South Arcot District of a
group terminating in the Soram tank. There is no means of escape except a cut at
the end of the bund; it is therefore proposed to construct a permanent escape 59 feet
in length to discharge the maximum drainage supply of 562 cubic feet per second.

The bund is low and weak, and the supply channel requires to be cleared, and
its breached portions to be closed, so as to prevent the drainage supply being lost.

The sluice is in a ruinous condition, cannot be repaired, so that it is required
to be reconstructed.

2. *Mailnamoondy Tank.*—The bund is very low and weak throughout, and
requires to be raised and strengthened. The stone revetment has fallen out of place at
parts, and Rupees 50 are entered for restoring the stone work. There is an old
calingulah 38 feet long with dam stones, and it is proposed to extend this by 21
feet, so as to give a total length of 59 feet to discharge 562 cubic feet per second.
The dam stones are to be removed, and the crest to be raised to the full tank level.
There are no tanks above that surplus into the Mailnamoondy.

3. The plan of the sluice of the Palavary tank was drawn before the circulation
of the design No. 8, and was kept back to await the receipt of the group map from the
South Arcot District.

4. The works have been commenced from famine relief funds and are in
progress.

I request that the enclosures may be returned when no longer required.

No. 246 I.

No. 62-A.

Note by the Chief Engineer for Irrigation.

THE following estimates from the Polar Range are forwarded by the District
Engineer, North Arcot, with his letter
No. 2,939, dated 16th November 1877. marginally noted. The Palavary tank

appertains to the Soram group in the belongs to the Nerconum tank group.

Talug.	V
Wandewash ...	Palavary ...
Do. ...	Mailnamoondy

2. The financial and hydraulic exhibited in the following statement:

I.—F.

Name of Work	Aycat Area.	Assessment.	Average Revenue Years.	Highest Revenue for five Years.	During the previous four Years.	OUTLAY			PER CENT.
						PROPOSED.	ORDINARY AGRICULTURAL.	IRRIGATION.	
	ACRES.	Rs.	Rs.	Rs.	Rs.	Original Works.	Repairs.	Average Annual Proportion of Charges to Revenue.	Rs.
Palavary tank	36	240	240	Not stated.	109	490	410	84.0	
Mailnamoondy tank	49	349	349	Do.	32	180	630	48.2	
Total	85	571	589	..	141	670	1,040	62.5	

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.	Channel's Slope.	To.	Effective.	Above F.T.L.	Above M.W.L.		
Palavary tank	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
	1.0	562	..	E 30	30	2.07	0.07	335.1	None.
Mailnamoondy tank	1.0	562	..	W 59	59	4.0	2.0	560.6	Do.
				C 38	28	1.79	0.21	552.0	
				W 59	59	4.0	below 2.0	560.6	

The average area irrigated by 1 square mile of drainage in the case of these tanks is Palavary 37 and Mailnamoondy 50.

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 overfall. 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:—

Palavary Tank.—This tank lies near the boundary which divides the districts of North and South Arcot in latitude $12^{\circ} 19' 25''$, longitude $79^{\circ} 38' 10''$; it has no tanks lying above it, and surpluses into the Vellimodeo tank, the uppermost of the Soram group in the South Arcot District.

The bund of the tank under review is low and weak throughout, being above M.W.L. in only one place, and the irrigation sluice is in a dilapidated condition and not repairable. The surplus is discharged by means of a cut made at the end of the bund; the length of the opening is 30 feet.

District and the Mailnamoondy tank

Work.	Amount.
V. Tank	Rs. 900
V. Tank	810
Total	1,710

of the Irrigation Works concerned are

Details.

unnel is out of order at waste of water.

vides for:—

and repairing the seeds on the land slo, ng the supply chann

structing the irrigat ion of the old sluice

cting a masonry weir he surplus weir appe

d by a well-built stone

sluice with reference t wings; the rear ciste

be capable of being su plug stone or $4\frac{1}{2}$ feet a

the required supply wh apes 320 of the estim

t sluice. It is more th ned.

ank.—This tank appert s to the group of which the Nerconum

and has no high lying y low (below F. T. L.

in some places, fallen e calingulah is insuffi

vides for:—

and repairing the bund, repacking the revetment where necessary,

g the unrevetted portions of the water slope, and sowing grass seed

land slope of the bund.

ting the calingulah int t weir by removing the dam stones

aising the body wall T.T.L. and for extending it from 38

feet.

statement shows the p sed distribution of the outlay recom-

to the debit of the sever eads of account involved:—

HEAD OF SERVICE.—IRRIGATION.

Fund.—Ordinary Agricultural.

lary tank

ilnamoondy tank

banks are breached in several places,

ing the water slope and planting bund.

ing the breaches and removing the

ee, retaining only a portion of the

uitable provided the rear wing returns etment.

arrangements at the head are defective; he section of the bund is misplaced.

6 feet high, is altogether inadmissible. ied through the plug hole when the

e sill, and the lower opening should be the water is 2 feet deep on the sill.

is quite sufficient to provide a well- doubtful whether any part of the old

to discharge the surplus.

to Government, Public W

Department, Irrigation Branch.

Ag. Dy. Chief Engr. for Irrigation,

for Chief Engineer for Irrigation.

Department, Irrigation Branch.

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for Chief Engineer for Irrigation.

Department, Irrigation Branch.

No. 63. ORDER THEREON, 1

THE following estimates for 1878

No. 264 I of 4th December 1877

ber 1877, No. 614 I.

works in the Polar Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

on.

Name of System or Group.	Name of Tank.	of Work.	Class.	Amount.	Irrigation Register No.
Main group, Soram tank, Sub-group, Byraveram tank, in South Arcot District.	Palavary tank ..	Re ..	Repairs ..	rs. 345	285 I
		Re ..	Do. ..	65	
		Re ..	Do. ..	320	
		Re ..	Do. ..	730	
		Re ..	Do. ..	170	
Main group, Nercoo-nam tank.	Mallnamoondy tank ..	Re ..	Repairs ..	630	286 I
		Re ..	Do. ..	180	
		Re ..	Do. ..	810	
		Re ..	Do. ..	900	
		Re ..	Do. ..	170	

2. These sanctions are registered as shown above.

(T extract.)

P. H. G. H. H.

Major, R.E.,
Acting Under Secy. to Govt., P.W.D.,
Irrigation Branch

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

Exd. A. Grubert.

Spare Copies

Revenue 1876
No 26

IRRIGATION
ACCOUNT.

Govt. of 1877 Madras.
PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
NORTH ARCOOT

Ac. 2. 50. 30.

Dated December 1876.

Issued

Recd. 5 January 1877. Recd.

G. O., 18th December 1877, No. 634.

DECEMBER.

Nos. 62-63.

Salary and Mailman's by T. S. S. North
Arcot District. - Sanctions estimates for
from works to the

N. 37.
Comm. to the

and. at the

4th Dec. 1876 (Recd. on 8 Jan)