

(1) Number of pages 16
(2) Date of repair 13.12.1980
(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	<u>2746</u>	Press.
B.P. No.		Mis.
Dated	<u>15-5-1877</u>	197 .

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Read the following :—

No. 180 W.

No. 538. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, No. 3,982, dated 16th February 1877. with his letter marginally noted :—

Taluq.	Village.	Work.	Amount.
			RS.
Madurantiam ...	Sirunagalur, S. No. 196 ...	V. small tank ...	520
Do. ...	Do. do. ...	V. large tank ...	645
Do. ...	Perambakkam, S. No. 82 ...	V. large and Chittary tanks.	3,220
Do. ...	Sinna Vemmani, S. No. 360 ...	V. large tank ...	685
Do. ...	Do. do. ...	V. small tank ...	355
		Total ...	5,425

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.	OUTLAY.			
					During the previous 4 Years.	PROPOSED ORDINARY AGRICULTURAL IRRIGATION.		
						Original Works.	Repairs.	Average Annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS. PER CENT.
Sirunagalur small tank ...	42	166	173	220	93	...	410	58.1
Do. large tank ...	71	247	224	232	NIL.	65	390	40.6
Perambakkam large and Chittary tanks ...	323	1,242	1,302	1,638	330	310	2,435	47.9
Sinna Vemmani large tank ...	15	...	...	...	...	...	192	...
Do. small tank ...	69	288	278	293	124	67	548	53.1
Do. ...	20	121	207	251	103	...	300	38.9
Total ...	540	2,064	2,244	2,634	650	442	4,275	47.8

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 per second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Sirunagalur small tank ..	sq. m.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Do. large tank ..	0.6	354	..	E 24	34	2.5	1.0	122.1	Not stated.
Perambakkam large tank ..	1.0	562.5	..	E 115	115	4.0	2.5	354.8	
Do. large tank ..	2.0	1,170	..	W 24	20	2.5	1.0	116.9	
Do. large tank ..	2.0	1,170	..	E 135	159	4.0	2.5	564.7	
Do. large tank ..	2.0	1,170	..	W 51	41.5	2.5	1.0	373.6	
Sinna Venmani large tank ..	1.0	562.5	..	E 108	159	4.5	2.5	1169.9	
Do. small tank ..	0.6	354	..	W 24	20	2.5	1.0	116.9	
Do. small tank ..	0.6	354	..	E 134	158	4.0	2.5	561.8	
Do. small tank ..	0.6	354	..	NIL	NIL	2.0	0.5	0.0	
Do. small tank ..	0.6	354	..	E 114	114	4.0	2.5	351.8	

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.—Band of tank. S.—Revenue Survey. V.—Village.

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

Sirunagalur Small Tank.—This tank is situated in the catchment basin of the Mambakkam tank, latitude $12^{\circ} 26' 0''$, longitude $79^{\circ} 54' 0''$. The latter tank commands the railway line at the 50th mile, but the surplus entering the Pakkam tank first crosses the line at the 54th mile.

The estimate provides for raising and repairing the bund, protecting the inner slope with kuskus up to M.W.L. and with turf above that level, forming an escape of 115 feet in length planted with grass and for repairing an Irrigation sluice.

The estimate is recommended for sanction, reduced however to Rupees 410 by the omission of the provision for turfing and for planting kuskus grass above F.T.L.

Sirunagalur Large Tank.—This tank is situated in the catchment ground of the Mambakkam tank, latitude $12^{\circ} 26' 0''$, longitude $79^{\circ} 54' 0''$ in close proximity to the railway line at the 55th mile, and its surplus falls into the side ditch and enters the Pakkam tank through culverts at the 54th mile.

The estimate provides for raising and repairing the bund, protecting the inner slope with kuskus up to M.W.L., and above that with turf, repairing the sluice, converting the calingulah into a weir by removing the dam stones and raising the body wall to F.T.L., and for forming a grass planted escape of 135 feet long.

The estimate for repair of the bund, in which is included the removal of portion of it to form an escape, is recommended for sanction less the amount for turfing and for that portion of the kuskus planting above F.T.L., which will reduce the total from Rupees 455 to Rupees 390.

For the extensive repairs and additions to the sluice it is said in the report that a plan is attached, but no such plan has been received, and it is recommended that sanction for the work be deferred.

The estimate for repairing the surplus weir, Rupees 65, is recommended for sanction.

Perambakkam Large and Chittary Tanks.—These tanks lie alongside each other, and they are situated in latitude $12^{\circ} 31' 0''$, longitude $79^{\circ} 51' 0''$. The large tank was injured by the floods of 1872, and a considerable portion of the bund was carried away. The tank was repaired at a cost of Rupees 330. In 1874 during another flood the bund was again damaged, and the Chittary (small tank) breached, the breaching of the latter tank placed the village in danger, as its bank protects the village from surplus waters of the large tank, the restoration of the Chittary or small tank was consequently carried out at once as a work of emergency at a cost of Rupees 100, which is included in the estimate now submitted for sanction.

The Chittary or small tank is a very unimportant tank as a work of irrigation, and it is proposed to abandon it as such only retaining the bund as a protection to the village. The 14.5 acres of land which it irrigates will be irrigated by the large tank, whose capacity is equal to the proposed increase to its ayacut.

The estimates provide for raising and repairing the bund of the large tank, protecting the inner slope with a belt of kuskus up to M.W.L. and turfing above that level, repairing two Irrigation sluices, converting a calingulah into a weir and constructing a dry stone escape; also for repairing the bund of the Chittary or small tank, and for forming an additional escape.

The estimate for repair of the bank of the *Perambakkam large tank* is recommended for sanction reduced to Rupees 1,660 by cutting out the provision for turfing and for the portion of kuskus planting between F.T.L. and M.W.L. It is noticed that watering and ramming are provided for the whole earthwork to the top of the bank.

The estimates for repairs and additions to the two sluices Rupees 652 each are recommended for sanction. The longitudinal section of the bank shows three sluices, but in the report accompanying the estimates it is stated that there are only two.

The estimate, Rupees 123, for alterations and repairs to the existing calingulah is recommended for sanction. The estimate for the new rough stone escape is recommended for sanction, reduced from Rupees 375 to Rupees 310 by the reduction of the length from 108 to 88 feet which will be enough. The plan shows F.T.L. as a foot above the level of this escape, which is supposed to be an error in drawing.

Of the estimate* for repair of *Chittary tank* embankment Rupees 100 were, it appears, spent in 1874. Emergent repairs should be specially sanctioned

* Rupees 192. while the emergency exists by the Superintending Engineer. See Irrigation Memorandum No. 9.† The estimate is recommended for sanction.

† 27th June 1876.

Sinna Venmani Large Tank.—This tank is situated in the catchment basin of the Sengatoor tank, latitude $12^{\circ} 26' 0''$, longitude $80^{\circ} 1' 0''$. It was breached by the floods of 1872 and was repaired, and subsequently (1874) was nearly breaching again. The bund is much eroded. The tank has one Irrigation sluice which is in need of repair, and a calingulah which is insufficient for the discharge of the surplus.

Proceedings of the Madras Government, Public Works Department,
23rd April 1877. No. 1,386.

The estimates provide for raising and repairing the bund, securing the front slope up to M.W.L. with a belt of kuskus planting and turfing above M.W.L., repairing the Irrigation sluice, converting the calingulah into a weir, and for forming a grass planted escape.

The estimates are recommended for sanction, reduced to Rupees 615 by cutting out the provision for turfing and for the kuskus planting above F.T.L.

Sinna Vemmani Small Tank.—This tank also is situated in the catchment basin of the Sengatoor tank, latitude 12° 25' 0", longitude 80° 2' 0"; its surplus flows into the Vemmani large tank. It was breached and repaired in 1872, and was again breached in 1874. The ryots have thrown up a ring bund at the breach. The bund is much eroded and the Irrigation sluice is in need of repairs. The tank has no surplus work.

The estimate provides for raising and repairing the bund, protecting the inner slope up to M.W.L. with kuskus planting and turfing above, repairing the Irrigation sluice and forming a grass planted escape.

It is recommended for sanction, reduced to Rupees 300 by cutting out the provision for turfing and for kuskus planting above F. T. L.

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.	
Sirunagalur small tank.	Raising and repairing the bund, also repairing the Irrigation sluice and forming an escape planted with kuskus ...	RS.	RS.	RS.
Sirunagalur large tank.	Raising and repairing the bund and forming an escape planted with kuskus ...	...	410	410
	Converting the calingulah into a weir ...	65	390	455
Perambakkam large and Chittary tank.	Raising and repairing the bund, repairing two Irrigation sluices and converting the calingulah into weir ...	...	2,435	2,937
	Constructing a dry stone escape ...	310	...	
Sinna Vemmani large tank.	Repairing bund of Chittary and forming a planted escape ...	...	192	615
	Raising and repairing the bund, repairing the Irrigation sluice and forming a planted escape ...	...	548	
Sinna Vemmani small tank.	Converting calingulah into weir ...	67	...	300
	Raising and repairing the bund, repairing the Irrigation sluice and forming a planted escape ...	...	300	

(Signed) G. T. WALCH,

Ag. Dy. Chief Engr. for Irrigation,

for Chief Engr. for Irrigation.

10th April 1877.
To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

Proceedings of the Madras Government, Public Works Department,
23rd April 1877. No. 1,386.

No. 539.

ORDER THEREON, 24 April 1877, No. 1,386.

IRRIGATION, No. 53.

Account.

No. 180 W, dated 10th April 1877.

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:—

Name of Work.	Item of Estimate	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Registry No.
Sirunagalur small tank.	Repairing bund and sluice and forming an escape ...	Repairs...	410	30 I
Sirunagalur large tank.	Repairing bund and forming an escape ...	Do. ...	390	1 } 31 I
	Converting calingulah into weir ...	Original Works.	65	2 }
Perambakkam large & Chittary tanks.	Repairing bund and two sluices and converting calingulah into weir ...	Repairs...	2,435	1 } 32 I
	Escape ...	Original Works.	310	2 }
Sinna Vemmani large tank.	Repairing bund of Chittary and forming escape ...	Repairs...	192	3 }
	Repairing bund and sluice and forming an escape ...	Do. ...	548	1 } 33 I
Sinna Vemmani small tank.	Converting calingulah into weir ...	Original Works.	67	2 }
	Repairing bund and sluice and forming an escape ...	Repairs...	300	34 I

2. These sanctions are registered as shown above.

(True Extract.)

Lt.-Col., R.E.,

Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

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

Exd. E. O. Shunker.

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Revenue Department
No 2490
Govt. of (1877) Madras.

PUBLIC WORKS.

To

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

Dated April 23rd.

Issued

Recd. 14th May 1877

G.O., 23rd April 1877, No. 1385

APRIL

Nos. 538-539.

No 2746.

Comm. to the
Board of Revenue

15th May '77

Tanks, Chingleput District.—The estimates
for repairs, &c., to certain —, sanctioned.

R.S. & Co. of Bangalore 16-12-77