

(1) Number of pages 6
(2) Date of repair 18-7-86
(3) Initials of the Referencer law

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	2435	Press.
B.P. No.		Mis.
Dated	30-4-1877	197.

R-R
Not to be folded or roughly handled.

2435
1

*Proceedings of the Madras Government, Public Works Department,
9th April 1877. No. 1,219.*

Read the following :—

No. 161—W.

No. 228. *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.
Chingleput	Senkunram	S. No. 89 V. Tangal	RS. 435
Do.	Vallangeri	S. No. 57 V. Tank	1,290
Do.	Perumpattunellore	S. No. 14 V. Tank	610
Total ..			2,235

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

I.—Financial Details.

Name of Work.	Aynut 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.	PER CENT. RS.
Senkunram Tangal	29	66	59	61	Nil	235	118	119.6
Vallangeri Tank	113	316	323	371	70	..	230	15.2
Perumpattunellore Tank	132	228	223	266	..	..	325	29.1
Total ..	274	610	610	692	70	235	673	32.0

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 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.	C. FT.	NO.
Senkunram Tangal	0.5	354	..	E 60	60	2.0	0.5	305.4	Not stated.
Vallangeri Tank	3.62	1,327	..	E 114	114	4.0	2.5	351.8	2
Perumpattunellore Tank ..	3.25	1,234	..	E 24	24	2.5	1.5	216.0	..
				W 139	139	4.25	2.25	1320.9	
				E 60	74	3.75	2.25	462.6	
				W 24	376	3.75	2.25	1234.4	
				E 352					

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 cross. E.—Escape at ground level. B.—Bund of tank. S.—Revenue Survey V.—Village.

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

Senkunram Tangal.—The bund of this tank is low throughout, and in some places it is only 6 inches above M.W.L. The surplus is discharged by means of an opening in the bund. The tank has one earthenware sluice.

The estimates provide for raising and repairing the bund, protecting the front slope with a belt of kuskus up to M.W.L. and above that level with turf, for forming a grass planted escape, and constructing a masonry irrigation sluice in lieu of the existing earthenware one.

The estimate for repair of the bank with which is included the removal of part of it to lengthen the escape, is recommended for sanction less the amount allowed for turfing, which is not likely to be successful, reducing the amount of the estimate from Rupees 150 to Rupees 118.

For the sluice a type design is sent to the District Engineer, which will require but small modifications to suit it to the site under notice. The estimate for the sluice in the type design sent is, at the rates entered in the estimate from the District Engineer, Rupees 210. Adding Rupees 25 for the probable modifications Rupees 235 are recommended for sanction.

Vallangeri Tank.—The Potheri Ninnaparai tank and tangal drain into this tank. The bund is low and weak. The tank has a calingulah of only 24 feet in length and a low level irrigation sluice.

The estimate provides for raising and repairing the bund, protecting the front slope with kuskus up to M.W.L. and turf above that level, constructing a high level irrigation sluice, and for converting the calingulah into a weir and extending it.

The estimate for repair of the bank is recommended for sanction, reduced to Rupees 230 by removal of the provisions for turfing and for planting kuskus between F.T.L. and M.W.L.

The propriety of constructing the high level sluice in this petty tank is doubted. It is observed, from the report, that the new sluice is required to irrigate high level land and to supersede a cut, whereas on the plan of the sluice the whole area is shown as to be supplied from it. High level sluices are generally a waste of money, and probably all that is wanted is an adaptation of the old low level sluice to the requirements of the cultivation under the tank. The estimate for the sluice is therefore not recommended for sanction.

The sum (Rupees 680) proposed for expenditure on the surplusing arrangements of this small tank is high, and is not recommended for sanction. The District Engineer will report whether an efficient escape at much less cost cannot be provided by merely levelling* a sufficient length of ground to F.T.L. and, if necessary, planting it with kuskus grass.

* See Circular No. 48.

Perumpattunellore Tank.—This tank is situated in the catchment basin of the Nandivaram tank. The inner slope of the bund is much eroded.

The estimates provide for repairing the bund, protecting its front slope with kuskus up to M.W.L. and turf above that level, enlarging the existing opening and converting

it into a grass planted escape, repairing the irrigation sluice and constructing one at a higher level.

The estimate for repair of the bank, in which is included the removal of part of it to form the escape, is recommended for sanction, reduced to Rupees 325 by the removal of the provisions for turfing above M.W.L. and for planting kuskus grass between that level and F.T.L., which is high enough for such planting to be carried to.

The estimate for the sluice is not recommended for sanction for the same reasons as those given in remarks on last tank (Vallangeri).

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.	
Senkunram Tank	Raising and repairing the bund and forming an escape planted with kuskus	Rs. 235	Rs. 118	Rs. 353
Vallangeri Tank	Constructing an irrigation sluice	235	..	235
Perumpattunellore Tank	Raising and repairing the bund	230	..	230
	Repairing the bund and irrigation sluice and forming an escape planted with kuskus	..	325	325

FORT ST. GEORGE,
26th March 1877.

(Signed) G. T. WALCH,

Ag. Dy. Chief Engr. for Irrigation,

for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 229.

ORDER THEREON, 9th April 1877, No. 1,219.

IRRIGATION, No. 11-A.

Account.

No. 161-W, dated 26th March 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.
Senkunram Tank	Repairing bund and forming an escape	Repairs	Rs. 118	1
Vallangeri Tank	Irrigation sluice	Original Works	235	2
Perumpattunellore Tank	Repairing bund	Repairs	230	3
	Repairing bund and sluice and forming an escape	Repairs	325	4

3

Proceedings of the Madras Government, Public Works Department,
9th April 1877. No. 1,219.

2. These sanctions are registered as shown above.

(True Extract.)



Lieut.-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. S. T. Austin.

1/4 Spare Copies

Revenue Department

2435 No 2302

Govt. of 1873 Madras

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,

CHINGLEPUT,

&c., &c., &c.

Dated April 9th.

Issued

Recd. 27 April 1877

Encl.

G. O., 9th April 1877, No. 1,219.

Des. No. 228

APRIL

Nos. 228-229.

No 2435.

Comm. to the
Board of Revenue

Y H

30th April 1877-

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

o. To the H. of Revenue 1-1-77