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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU
REVENUE DEPARTMENT

G.O. No.	660	Press.
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660

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

21st February 1878, No. 147-I.

Irrigation.

Account.

Read the following papers:—

No. 54. From Colonel P. O'CONNELL, R.E., Superintending Engineer, Chingleput, to the Chief Engineer for Irrigation, dated St. Thomas' Mount, 6th November 1877, No. 3,211.

I HAVE the honor to forward estimates amounting to Rupees 1,425 for the marginally-named tanks of Nekkunnam group in Madranticum taluq, No. 3 or Chingleput Range, for the sanction of Government.

Two Estimates. One Group Map.				Rs.
Sirukkarana tank...	...	...	...	540
Irumbili " ...	...	...	...	885
				1,425

2. Estimates for the remaining tanks of this group will be submitted shortly.

No. 54-A. From the same Officer, dated St. Thomas' Mount, 21st November 1877, No. 3,439.

IN reference to the concluding paragraph 2 of my letter, No. 3,211, dated 6th instant, I have the honor to forward the undermentioned tanks of Nekkunnam group in Madranticum taluq, No. 3 or Chingleput Division, for the sanction of Government:—

HEAD OF SERVICE—IRRIGATION.

Fund—Ordinary Agricultural.

							RS.
Repairing the Vayalur tank	...	...	...	...	...	...	550
Do. the Puttamangalum tank	...	...	...	...	...	...	580
Do. the Indalur tank	...	...	...	...	...	...	930
Total							2,060

No. 37 I.

No. 54-B. Note by the Chief Engineer for Irrigation.

THE following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, with his letters marginally noted. These tanks appertain to the Nekkunnam tank

No. 3,211, dated 6th November 1877, and
No. 3,439, dated 21st November 1877.

group, for the repairs of which an estimate of Rupees 2,030 was sanctioned in G.O., No. 2,903, dated 11th October 1875:—

Taluq.	Village.	Work.	Amount.
G No. 2. Madranticum ...	Vayalur ...	S. No. 160, V. tank ...	Rs. 550
" " 3. Do. ...	Puttamangalum ...	" " 157, " ...	580
" " 4. Do. ...	Indalur ...	" " 177, " ...	930
" " 5. Do. ...	Sirukkaranai ...	" " 185, " ...	540
" " 7. Do. ...	Irbumbili ...	" " 189, " ...	885
Total ...			3,485

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 five years.	Highest Revenue for five years.	During the previous four years.	OUTLAY.			
						PROPOSED.			
						Ordinary Agricultural Irrigation.		Average annual pro- portion of charges to Revenue.	
Original Works.	Repairs.								
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.	
Vayalur tank	53	203	289	324	None.	..	550	38.0	
Puttamangalum tank	49	196	174	175	..	..	580	66.6	
Indalur do.	236	940	975	996	..	..	930	19.0	
Sirukkaranai do.	61	186	189	207	..	..	540	57.0	
Irbumbili do.	115	301	345	388	..	..	885	61.3	
Total	514	1,926	1,972	2,090	..	..	3,485	35.3	

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.W.L. per Second.	Tanks above.
		per Second.	per Second.	Total.	Effective.	Above F.T.L.	Above M.W.L.		
		SQ. M.	C. FT.	FT.	FT.	FT.	FT.		
Vayalur tank ..	0.75	464	..	E 34	34	1.0	0.0	175.0	None.
Puttamangalum tank ..	0.75	464	..	E 150	150	3.0	1.5	462.9	Do.
Indalur do. ..	4.5	1,533	..	E 150	150	3.0	1.5	462.9	..
Sirukkaranai do. ..	2.0	893	..	W 45	277	5.0	3.0	1,529.9	..
Irbumbili do. ..	1.25	647	..	E 232	290	3.0	1.5	894.9	..
				E 112	124	4.0	2.0	646.2	..

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

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

Vayalur Tank.—This tank is situated in latitude 12° 19' 0", longitude 79° 54' 30" and has not been repaired for upwards of twenty years. The tank was damaged by the floods of 1872 and 1874. The masonry irrigation sluice is in need of repairs, and the pot pipe sluice requires to be replaced by a brick sluice.

The surplus is discharged by means of a breach.

The estimate provides for—

Raising and repairing the bund, securing its water slope with a belt of kuskus up to F.T.L.; repairing the masonry irrigation sluice, substituting a brick sluice for the pot pipe, and for forming an escape planted with grass.

Puttamangalum Tank.—This tank is situated in latitude 12° 21' 0", longitude 79° 53' 0". The tank has not been repaired for many years; it was damaged by the cyclones of 1872 and 1874. The two irrigation sluices are in need of repairs. The tank has no proper surplus work; the surplus is at present discharged by means of a breach 12 feet in length.

The estimate provides for—

Raising and repairing the bund and securing the water slope with a belt of kuskus, repairing two irrigation sluices, and forming an escape planted with grass.

Indalur Tank.—This tank is situated in latitude 12° 22' 0", longitude 79° 54' 0". The bund is in bad condition; a portion of it is revetted up to F.T.L., but the revetment is in disorder. The tank has three irrigation sluices, of which the first is a masonry sluice, the second a pot pipe, and the third is a vent in the calingulah. The first requires repairs and the second needs to be replaced by a brick sluice. The calingulah is out of order, and its length is insufficient to discharge the whole of the surplus.

The estimate provides for—

1st.—Raising and repairing the bund, repacking the revetment, and planting the unrevetted portions of the water slope with kuskus up to F.T.L.

2nd.—Repairing the masonry irrigation sluice.

3rd.—Substituting a brick sluice for the pot pipe.

4th.—Repairing the calingulah and converting it into a weir by removing the dam stones and raising the body wall to F.T.L.

5th.—Forming an escape planted with grass.

It is doubtful whether this means of discharging surplus from so considerable a catchment basin is suitable except as a temporary arrangement. The District Engineer should in due course ascertain whether the tank will need a pavement or a masonry weir.

Sirukkaranai Tank.—This tank is situated in latitude 12° 24' 0", longitude 79° 55' 0" and has not been repaired for upwards of twenty years, consequently it is in bad condition. The tank has no proper surplus work; the water is discharged round the ends of the bund, and during heavy floods temporary cuts are made in the bund to relieve the tank. The irrigation sluice is in need of repairs.

The estimate provides for—

Raising and repairing the bund, securing the front slope with a belt of kuskus up to F.T.L., repairing the irrigation sluice, and forming two escapes planted with grass each end of the bund.

Irbumbili Tank.—This tank is situated in latitude 12° 25' 0", longitude 79° 54' 30", and has not been repaired for very many years; the bund is considerably worn down, so that the tank cannot retain its proper supply to irrigate the whole of the ayacut under it.

The tank has two masonry irrigation sluices, of which one is in a leaky condition and a portion of the tunnel and face wall need to be rebuilt, the other requires slight repairs. The surplus waters are discharged by means of a calingulah 12 feet in

length and a breach 60 feet in length. It is proposed to convert the former into a weir by removing the dam stones and raising the body wall to E.H.L., and to extend and convert the latter into a planted escape.

The estimate provides for—

Raising and repairing the bund, securing the water slope with a belt of kuskus up to M.W.L., repairing the two irrigation sluices, converting the calingulah into a weir and forming an escape planted with grass.

The Superintending Engineer has, in a letter No. 181, dated 16th January 1878, shown that of the two tanks in the group not estimated for, the Irumbili small tank need not be maintained, as its ayaent can be irrigated by the large tank of the same village, and that the requirements of the Zamin tank of Vettemperambakkam have been brought to the Collector's notice.

The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved:—

HEAD OF SERVICE—IRRIGATION.

Fund—Ordinary Agricultural.

Fund—Ordinary Agricultural.

Name of System or Group.	Distinguishing Number or letter of Group.	Name of Tank or Channel.	Description of Work.	Main Head.	Class.	Amount of each Item.	Amount to be separately accounted for.
Nekkumam Tank Group.	2	Vayalur tank ..	Repairing bund and sluice, replacing pot pipe by brick sluice and forming a planted escape.	Irrigation.	Repairs ..	Rs. 550	Rs. 550
	3	Puttamangalum tank.	Repairing bund and two sluices and forming a planted escape.		Do. ..	580	580
	4	Indalur tank ..	Repairing bund		Do. ..	615	930
			Do. sluice		Do. ..	42	
			Replacing pot pipe by brick sluice.		Do. ..	50	
			Repairing and converting calingulah into weir.		Do. ..	178	
	5	Sirukkaranai tank.	Repairing bund and sluice and forming two planted escapes.		Do. ..	50	540
	7	Irumbili tank ..	Repairing bund and two sluices, converting calingulah into weir and forming a planted escape.		Do. ..	540	
						885	885

FORT ST. GEORGE,
4th February 1878.

(Signed) P. MONTGOMERIE, Major, R.E.,
Ag. Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

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

No. 55.

ORDER THEREON, 21st February 1878, No. 147 I.

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.

No. 37 I, dated 4th February 1878.

Head of Service—Irrigation.

Name of System or Group.	Name of Tank.	Description of Work.	Class.	Amount.	Irrigation Register No.
Nekkumam Tank Group.	Vayalur tank ..	Repairing bund and sluice, replacing pot pipe by brick sluice and forming a planted escape.	Repairs ..	rs. 550	351 I of 1877-78.
	Puttamangalum tank.	Repairing bund and two sluices and forming a planted escape.	Do. ..	580	352 I of 1877-78.
	Indalur tank ..	Repairing bund	Do. ..	615	353 I of 1877-78.
		Do. sluice	Do. ..	42	
		Replacing pot pipe by brick sluice ..	Do. ..	50	
		Repairing and converting calingulah into weir.	Do. ..	178	
	Sirukkaranai tank.	Planted escape	Do. ..	50	354 I of 1877-78.
		Total	Do. ..	930	
	Irumbili tank ..	Repairing bund and sluice, and forming two planted escapes.	Do. ..	540	355 I of 1877-78.
		Repairing bund and two sluices, converting calingulah into weir and forming planted escape.	Do. ..	885	

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. C. Shunker.
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Revenue Dept
No 1115

IRRIGATION,
ACCOUNT.

Govt. of (1878) Madras

PUBLIC WORKS.

To

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

Dated February 21st.

Issued

Recd. 12 March. End.

G. O., 21st February 1878, No. 147 I.

See Note

FEBRUARY.

Nos. 54-55.

Nekkannam Tank Group, Chingleput Dis-
trict. — Sanctions estimates & repairs to
certain tanks of the — No 669

Comm? to the
Board of Revenue
13 March

11 To the Standing Recd on 14 March