(1) Number of pages 6.

(2) Date of repair 31. 10. 81.

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue . DEPARTMENT

G.O. No. / ~~B.P. No.~~	5589.	Press. / Mis.
Dated	19. 9. 1877 ~~197~~ .	

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Archives 1—10,006—19-4-79.

55-89
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

10th September 1877, No. 310 I.

Irrigation.

Account.

Read the following paper :—

No. 152 I.

No. 59. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the No. 2 or Mount Range are forwarded by the Superintending Engineer, Chingleput, No. 552, dated 16th May 1877. with his letter marginally noted :—

Taluq.	Village.	Work.	Amount.
			Rs.
Saidapet ...	Vilanjiyambakkam ...	S. No. 98 V. Perumal Naidu tangle...	375
Do. ...	Do. ...	S. No. 98 V. Govindappen tangle ...	292
Do. ...	Medapakham	S. No. 232 V. Chittary	385
Do. ...	Do.	S. No. 232 V. Large tank	846
Do. ...	Kadapperi	S. No. 259 V. Putteri tank	530
Do. ...	Do.	S. No. 259 V. Allari tank	255
		Total ...	2,683

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.	OUTLAY.			
					During the previous four 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.
Vilanjiyambakkam 'Perumal Naidu tangle	39	113	114	122	Nil.	...	375	65·7
Do. Govindappen tangle ...	28	74	79	85	Do.	...	292	73·9
Medapakham Chittary ...	24	100	103	108	85	...	385	91·2
Do. large tank ...	186	624	631	645	Nil.	..	846	26·8
Kadapperi Putteri tank ...	81	266	239	303	Do.	...	530	44·3
Do. Allari tank	35	87	75	82	Do.	...	255	68·0
Total ...	393	1,264	1,241	1,345	85	...	2,683	44·6

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.
Perumal Naidu tangle ..	0·75	464	..	Cuts in bund. E 150	150	1·5 3·75	0·0 2·25	0·0 462·9	None.
Govindappen tangle ..	0·75	464	..	Cuts in bund. E 150	150	1·0 3·75	0·0 2·25	0·0 462·9	Do.
Medapakham Chittary ..	0·25	268	..	Cuts in bund. E 87	87	1·5 3·75	0·0 2·25	0·0 268·4	1
Do. large tank ..	0·76	552	..	K 36 W 36	29·5	3·0	1·5	172·5	None.
Putteri tank	0·5	425	..	E 108	144	3·75	2·25	555·4	
Allari tank	1·0	675	..	Cuts in bund. E 138	138	2·75 3·75	1·25 2·25	0·0 425·8	Do.
				Cuts in bund. E 109	109	1·0 3·75	0·0 2·25	0·0 554·9	1

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. S. Revenue Survey.

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

Perumal Naidu Tangle.—This small tank belongs to the Vilanjiyambakham tank group. It receives the drainage at about three-fourths of a square mile, and the surplus crossing the Madras Railway about two miles west of Avady station enters the Vilanjiyambakham tank.

The bund of this tangle is low and weak, the irrigation sluice is in need of repairs, its plug also requires to be enlarged, and the surplus is discharged by means of cuts in the bund.

The estimate provides for raising, repairing and turfing the bund, repairing irrigation sluice and forming an escape 150 feet long planted with grass. It is recommended for sanction.

Govindappen Tangle.—This tangle also belongs to the Vilanjiyambakham tank group. It receives the drainage of about three-fourths of a square mile, and its surplus crossing the Madras Railway a short distance to the west of the surplus channel of the last-noticed tank enters the Vilanjiyambakham tank.

The bund of this tangle is low and weak, and the irrigation sluice is in need of repairs, its plug also requires to be enlarged, and the tangle surpluses through the cuts in the bund.

The estimate provides for raising, repairing and turfing the bund, repairing the irrigation sluice, and forming an escape 150 feet long planted with grass.

It is recommended for sanction.

Medapakham Chittary.—This tank receives the surplus of the village Anathi tangle, and has a catchment basin of about one-fourth of a square mile. Its surplus now passess through cuts in the bank.

The estimate provides for raising, repairing, and turfing the bund, repairing the irrigation sluice, and forming an escape 87 feet long planted with grass.

It is recommended for sanction.

Medapakham Large Tank.—This tank receives the drainage from the adjacent hills, its catchment area being estimated at three-quarters of a square mile.

The estimate provides for—

(1). Raising and repairing the bund, repacking the revetment, turfing where required, and also forming an escape 108 feet long planted with grass.

(2). Repairing and improving the two irrigation sluices.

(3). Converting the calingulah into weir.

It is recommended for sanction.

Putteri Tank.—This tank receives the drainage of about half a square mile of hilly ground. Its surplus is now discharged through cuts in the bank.

The estimate provides for raising and repairing the bund, repacking the revetment, turfing wherever required, repairing the two irrigation sluices, and forming an escape 138 feet long planted with grass.

It is recommended for sanction.

Allari Tank.—This tank receives the surplus of the Putteri tank, and its drainage area is about 1 square mile.

Its surplus is now discharged through cuts in the bank.

The estimate provides for raising, repairing, and turfing the bund, repairing the irrigation sluice and forming an escape of 109 feet in length.

It is recommended for sanction.

The nature of the escape proposed is not clear from the estimate, but it is supposed that it will consist in a simple levelling of the surface of the ground where hard, to F.T.L.

It is noticeable that the cultivation per square mile of drainage basin is remarkable.

Tank.	Cultivation.	Basin.	Per Square Mile.
	ACRES.	SQ. MS.	ACRES.
(1).	39	0·75	52
(2).	30	0·75	40
(3).	24	0·25	96
(4).	186	0·75	248
(5).	73	0·50	146
(6).	30	1·00	30

The catchment basins of (3), (4), and (5) would seem to have been underestimated and such discrepancies should be noticed by the Superintending Engineer.

FORT ST. GEORGE,
29th August 1877.

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

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

No. 60. ORDER THEREON, 10th September 1877, No. 310 I.

THE following estimates for Irrigation works in the No. 2 or Mount Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned :—

No. 152 I, dated 29th August 1877.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Register Number.
			Rs.	
Vilanjiyambakham Tank Group. — Perumal Naidu tangle.	Repairing bund and sluice, and forming a planted escape.	Repairs ...	375	163 I.
Govindappen tangle.	Do. do. ...	Do. ...	292	164 I.
Medapakham Chittary.	Do. do. ...	Do. ...	385	165 I.
Medapakham large tank.	Repairing bund and forming a planted escape.	Do. ...	623	1 } 166 I.
	Repairing two sluices...	Do. ...	176	2 } 166 I.
	Converting calingulah into weir.	Do. ...	47	3 } 166 I.
Putteri tank ...	Repairing bund and two sluices, and forming a planted escape.	Do. ...	530	167 I.
Allari tank ...	Repairing bund and sluice and forming an escape.	Do. ...	255	168 I.

2. These sanctions are registered as shown above.

(True Extract.)

Colonel, 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.

19/9

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55-89/3

Revenue Department
No 4064.

IRRIGATION.
ACCOUNT.

V

Govt. of {1877} Madras.

PUBLIC WORKS.

To

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

Dated September 10th.

Issued

Rcd. 19 September Encl.

G. O., 10th September 1877, No. 310 I.

Dr Pitts

SEPTEMBER.

Nos. 59-60.

7 To W. J. Revenue 20-9-77

Tanks, Chingleput District.—Estimates for repairs of certain —, sanctioned.

No 5589
Comm.r to the
Board of Revenue
19: Sept/77