(1) Number of pages 8

(2) Date of repair August 86.

(3) Initials of the Referencer Lars

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. 1527 Press.
~~B.P. No.~~ ~~Mis.~~

Dated 21-6-1878 ~~197~~ .

68

Not to be folded or roughly handled.

Archives 1—10,006—19-4-79.

821

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st June 1878, No. 458 I.

Irrigation.
Account.

Read the following papers:—

No. 3. From Colonel P. O'CONNELL, R.E., Superintending Engineer, Chingleput, to the Chief Engineer for Irrigation, dated Ennore, 11th March 1878, No. 1,044.

Four estimates.
Four plans.

In reference to your memorandum, No. 86 CN, dated 16th July 1877, I have the honor to retransmit the estimates for the repairs of the Pady tank together with the sketch referred to in the note at the foot of the estimate.

2. The portions of the earthwork appertaining to the formation of flood bank and to the repair of the tank bank are shown separately in the accompanying detailed estimate, which also shows the different tanks in which the turfing provided for is to be placed.

3. In regard to the area of the catchment basin of the tank I have to state that the Assistant Engineer in charge of the division reports that after careful examination and inquiry the area has now been found to be $1\frac{1}{4}$ square miles, of which half a square mile represents the drainage from the fields irrigated from the Ambatoor tank.

4. Plans and estimates for the construction of two new sluices referred to in the report are also enclosed.

No. 145 I.

No. 3-A. *Note by the Chief Engineer for Irrigation.*

The Superintending Engineer, Chingleput, forwards, with his letter marginally noted, an estimate in connection with the Pady tank which is an isolated tank situated in the Sydapet taluq, No. 2 or Mount range.

No. 1,044, dated 11th March 1878.

2. The nature of the work proposed for execution and the heads of account to which it is chargeable are as follow:—

ORDINARY AGRICULTURAL.

Irrigation.

Original Works.		Rs.
Constructing a masonry irrigation sluice	... ...	115
Do. do. do	... ...	110
Repairing and extending the bund bank	each, and forming flood	1,185
Repairing two irrigation sluices	... ...	40
Do. the weir ...	... ...	20
	Total ...	1,470

3. The following particulars of this tank are recorded:—

Ayacut area	Acres	197
Assessment	Rupees	682
Average revenue	,,	626
Highest do.	,,	639
Expenditure during the previous four years	Not known.	
Average cultivation per square mile of catchment basin ...	Acres	144·6

The area of the catchment basin is 1·25 square miles, of which 0·5 square mile represents the drainage from the fields irrigated from the Ambatoor tank; the maximum flood supply is calculated at 652 cubic feet per second, for discharging which as surplus there is a weir 61·25 feet in length whose crest needs to be lowered ·75 to F.T.L.

This is an isolated tank; its bund is irregular and requires to be brought up to a uniform level and extended at both ends. It was breached during the cyclones of 1872 and 1874 by the overflow of the Cooum river into it. Along the north bank of the river immediately between it and the tank the ground is high and no water can possibly spill over, but during high floods the Cooum water finds its way into the Pady tank through the Mogapper tank by means of its surplus, and to avoid this and to effectually protect the Pady tank it is proposed to form an embankment from the Mogapper tank to the north bank of the Cooum river.

The tank has two irrigation sluices which are in need of slight repairs, and their plug holes require enlarging. In addition to these sluices there are two cuts, one at each end of the bund for irrigation purposes, in lieu of which it is proposed to construct two sluices on the sites of the cuts.

The estimate provides for—

1*st.*—Raising, repairing, turfing, and extending the bund, closing breaches and forming flood bank.

2*nd.*—Repairing two irrigation sluices.

3*rd.*—Repairing the weir and lowering the crest to F.T.L.

4*th.*—Constructing two irrigation sluices.

* Part of a R.S. map.

The estimate should have been accompanied by a sketch* map of the whole drainage basin of the tank, &c.

As it is, looking at the great area of the cultivation per square mile of drainage at the height of the bund where the breach occurred, and at the great amount of irregular water-way for the discharge of surplus which the longitudinal section indicates to have existed, it is believed that drainage basin has been under-estimated, and that the tank would not be safe with its present length of surplus weir. Until a further report is submitted therefore and the circumstances fully explained, a temporary escape at F.T.L. not less than 150 feet long should be provided near the intended south end of the bund by omitting to construct the new bund for this length and by levelling the ground down to F.T.L.

The necessity for constructing two new sluices is not clear. The sill of one is to be at 2½ feet only below F.T.L., and this sluice could hardly prove efficient, and, if it does not irrigate a crop entirely, it cannot be wanted at all. The other sill is to be 3½ feet below F.T.L., and, as the deepest existing sluice has its sill at 5·26 feet only below F.T.L., probably this might be efficient. The repairs may be sanctioned, but the rest of the work should be further r[illegible]ted on. If the present weir is 9 inches above the proper F.T.L., the lowering [illegible]he crest will be proper, but it is to be noticed that the tank at the present cre[illegible]l will hold nearly half as much again as at the reduced level, and the notice o[illegible]hange in the papers is confined to this brief remark, "Its weir crest is in high [illegible]l."

The following statement shows th[illegible]posed distribution of the outlay recommended for sanction.

Head of Service.—IRRIGATION.
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.
						Rs.	Rs.
Isolated tank.	..	Pady tank ..	Repairing and extending bund, closing breach, and forming flood bank.	Irrigation.	Repairs..	1,185	1,245
			Repairing two irrigation sluices.		Do. ..	40	
			Repairing weir		Do. ..	20	

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

24th May 1878.

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

No. 4. ORDER THEREON, 1st June 1878, No. 458 I.

THE following estimate from the No. 2 or Mount Range forwarded by the Superintending Engineer, Chingleput, is sanctioned:—

Head of Service.—IRRIGATION.

Pady Tank.

	Rs.
Repairing and extending bund, closing breach, and forming flood bank, Repairs	1,185
Repairing two sluices, Repairs	40
Do. weir, do.	20
Total ...	1,245

To be carried out by the Public Works Department officer in charge, No. 2 or Mount Range.

2. This sanction has been registered as Nos. 75 I of 1878-79.

(True Extract.)

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

(True Copy.)

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

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

1916

Exd. E. C. Shunker.
11 Spare Copies

Revenue 1878 dept

No 2129

IRRIGATION.
ACCOUNT.

Govt. of {1878} Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
CHINGLEPUT,
&c., &c., &c.

Dated June 1st.

Issued

Recd. —19"

Encl.

G. O., 1st June 1878, No. 453 I.

JUNE.

Nos. 3-4.

No 1527

Communicated to the Board of Revenue

21 June 1878

...dy Tank, Sydapet Taluq, Chingleput—
...mate for the repair of the —, anne-