

(1) Number of pages 4
 (2) Date of repair 23-6-86
 (3) Initials of the Referencer lvb

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

DEPARTMENT

Revenue

G.O. No.	3775	Press.
B.P. No.		Mis.
Dated	4. 7. 87	197

lvb

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3775
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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

26th June 1877, No. 107 I.

Irrigation.
Account.

Read the following paper:—

No. 57 I.

No. 104. *Note by the Chief Engineer for Irrigation.*

THE District Engineer, Cuddapah, forwards, with his letter marginally noted, an estimate in connection with the Camala-poor tank and supply channel situated in the Cuddapah Taluq, Cuddapah Range.

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.

Extending the weir	...	Rs. 4,150
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Repairs.

Extending the tank bank	...	180
Improving the bund	...	3,970
Repairing the bund and revetment	...	3,930
Repairing the weir	...	40
Do. the supply channel	...	170

Total ... 12,440

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

Ayacut area	...	Acres 622	{Circar 446 {Inam 176
Assessment	...	Rupees 1,256	{Circar 3,045 {Inam 1,311
Average revenue	...	3,345	
Highest do.	...	3,590	
Expenditure during the previous four years	...	Rupees 4,511	

This tank is situated in latitude 14° 36' 0" north longitude 78° 43' 0" east, and is the lowest or terminal tank of a group of four tanks.

The area of the catchment basin is 17 square miles; the maximum flood supply is calculated at 2,093 cubic feet per second, for discharging which as surplus there is a weir 143 feet in length to which it is proposed to add 184 feet more so as to make an aggregate length of 327 feet available for the surplus discharge.

This tank in addition to its catchment basin drainage receives a supply from a channel taken off from the left bank of the Paupugone river and which is provided with a head sluice.

Between 1872 and 1875 the bund was raised to a uniform height of 4.5 above weir crest level and repaired at a cost of Rupees 3,810-11-10, but is now, it is stated, "extensively gullied" and in need of repair; the revetment also requires rebuilding throughout, and the two breaches in the supply channel need to be closed.

The surplus of this tank is discharged round the end of the bund, except during heavy floods when portion also passes over the weir. It is proposed to extend the bund up to the railway embankment to prevent the water escaping in that direction and to provide an adequate length of weir for discharging the whole surplus.

The high-lying tanks are reported to be safe.

The estimates provide for the afore-mentioned improvements and repairs.

The plan for the additions to the escape is not drawn in accordance with rules, and were it necessary to alter in any way the old weir and extend it, the work could be done for very much less than the amount of the estimate for the first apron of the old weir, though the overfall is but 1.40 feet is 78 feet wide, and 10 feet would suffice, so that all the raw material for an extension could be got out of the old work. However no extension or material alteration of the surplus arrangements seems to be necessary, for the old weir seldom discharges to any great extent, and beyond the end of the bund and between it and the railway there is a long stretch of ground upwards of 1,100 feet, of which the lowest part is but 0.47 below F.T.L., and the rest 2 or 3 inches. Over this ground most of the surplus has discharged, and instead of bunding across this ground and so making a large expenditure on a weir necessary, clearly the simplest and the natural arrangement will be to utilize this as the very effective escape which it is. It may not be convenient to lower the F.T.L., which appears to be properly noted as at 20.00, so the regular weir may be kept at that level and will discharge about $143 \times 5.95 = 850$ cubic feet, leaving for the supplemental escape 1,243 cubic feet. This escape may be 6 inches higher, and the discharge per foot will then be 3.25 cubic feet, so its length will be 382 or say 381 feet or 127 yards.

All that will be required will be a pavement adjusted to the proper level with on the tank side a little earth up to the lip $127 \times 1\frac{1}{2} \times \frac{1}{2} = 56\frac{1}{2}$ cubic yards, which can be taken from the old weir, and say, including earthwork, it will cost 8 Annas a cubic yard or Rupees 30.

The tank was repaired and the earthworks brought to proper section in 1872-73, yet Rupees 1,235 are now stated to be required to fill up gullies. It appears that the bund is used as a road, village road apparently, and it is proposed to gravel the bund which is composed of black cotton soil and "sowdoo" at a cost of about Rupees 1,750. If the villagers damage the bund with their carts and cattle they ought to be required to repair the damage, or the use of the bund as a communication should be stopped. The undersigned cannot therefore recommend the sanction of another large sum for re-doing work which was so recently done. The revenue is Rupees 3,845, Rupees 4,544 have been spent in the last four years, and the estimates submitted amount to Rupees 12,440. It is quite impracticable to maintain village tanks on this scale of expenditure. The grant for the Presidency is about 8 per cent. on the revenue, and will not admit of nearly 90 per cent. being spent for a succession of years.

The repair of the revetment may be a necessary work and at any rate it has not been attended to for probably many years. The estimate as revised and recommended for sanction is:—

Earthworks in connection with revetment	...	...	...	...	Rs.
Rebuilding revetment	...	...	...	...	150
Backing to do. 6 inches thick	...	...	...	...	2,507
Sundries	...	...	...	...	1,414
	...	...	...	...	149
Repairing surplus weir	...	...	...	...	4,070
Supplemental escape 381 feet	...	...	...	...	40
Repairing supply channel	...	...	...	...	30
	...	...	...	...	170
Total	...	...	...	...	4,460

and the expenditure of the next ten years thereafter should be nominal.

FORT ST. GEORGE,
16th June 1877.

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

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

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No. 105.

ORDER THEREON, 26th June 1877, No. 107 I.

The following estimate from the Cuddapah Range forwarded by the District Engineer, Cuddapah, is sanctioned:—

CAMALAPOOR TANK AND SUPPLY CHANNEL.

Head of Service.—Irrigation.

Group or Project.	Fund and Main-head.	Class.	Name of Tank and Channel.	Particulars of Work.	Amount.
Camalapoore Tank Group.	Ordinary Agricultural, Irrigation.	Repairs.	Camalapoore tank and supply channel.	1. Earthwork	Rs. 150
				2. Rebuilding revetment	4,070
				3. Repairing weir	40
				4. Supplemental escape	30
				5. Repairing supply-channel.	170
				Total	4,460

To be carried out by the Public Works Department Officer in charge Cuddapah Range.

2. This sanction has been registered as No. 73 I of 1877-78.

The special attention of the District Engineer will be drawn to the remarks of the Chief Engineer for Irrigation on the estimates for this tank as submitted by him, and he will place himself in communication with the Collector with a view to damage caused by the villagers being made good by them.

(True Extract.)

Colonel R.E.

Colonel, R.E.,

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

Irrigation Branch.

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

Exd. E. C. Shunker.

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Revenue Department

No 3135

IRRIGATION.
ACCOUNT.

Gobt. of 1877 Madras.

PUBLIC WORKS.

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To

The DISTRICT ENGINEER,

CUDDAPAH,

&c, &c, &c.

Received

Dated June 26th.

Issued

Recd.

3 July

Encl.

G. O., 26th June 1877, No. 107 L.

JUNE

Nos. 104-105.

No. 3775
Comm. to the
Board of Revenue

4 July 77

Camalapuram Tank and Supply Channel,
Cuddapah District. — Estimate for repairs to
the —, sanctioned.

4. 2. 77 No. 3 of Revenue 77