

No. 385.

Read the following :—

No. 931.

MEMORANDUM.

THE following estimate has been submitted by the Superintending Engineer, Chingleput :—

Mambaukum Tank, Rupees 1,674.

Ayacut area ...	...	...	...	...	...	...	...	Acres	107
„ assessment ...	...	...	...	...	...	...	...	Rupees	313
Average revenue ...	...	...	...	...	...	...	...	„	251

2. The expenditure on repairs of this tank in the last four years has amounted to Rupees 1,659. The absence of adequate means of disposing of surplus has been the cause of the outlay incurred and required to render this tank safe. With a drainage basin of 11 square miles and fourteen tanks above it the surplus weirs provided measure only 45 feet in length, and 114 feet additional are required. The tank breached in 1872 and again in 1874, and these accidents would be certainly repeated in every year of heavy rainfall were not the requirements of the situation of the tank to be attended to. The group of fifteen tanks should have been treated as a whole, and at any rate the Superintending Engineer should have given a list of the other fourteen with the approximate areas of their catchment basins, lengths of their weirs, &c. Allowance must be made for the difficulty of doing work properly with a small establishment, but as little delay as possible should be allowed to occur in making the whole of these tanks safe. All that can be said about the Mambaukum tank until this is done is that it will be much safer than it has before been. The South Indian Railway is interested in the Mambaukum and other tanks of the group being made secure.

3. The Superintending Engineer has asked the question whether this tank should be entered in class 3 or class 4. It is somewhat difficult to decide this point, as the south channel from the Madranticum tank passes through it, and ultimately an important part of its supply may be therefrom received. The Madranticum tank itself belongs to class 4, as it receives no water from beyond its own catchment basin, and that is the condition dividing the two classes. It appears to be best to adhere to this rule, and so the Mambaukum tank should come under class 3, *viz.*, irrigation under minor streams and tanks supplied by them. Of the total of the estimate items amounting to Rupees 1,144 will be chargeable to Revenue, and the additional surplus weir Rupees 530 to Capital.

OOTACAMUND,
18th August 1875.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
23rd August 1875.

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.
District, Chingleput; Taluq, Madranticum; Village, Mambaukum.
WORK.—Repairing the Mambaukum Tank Bund.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
5,448	Cubic yards of earthwork (lead 10 yards and lift 3 yards.)	0 1 0	C. yd.	340 8 0	
5,448	Do. of watering and ramming.	0 0 3	"	85 2 0	
4,765	Square yards of turfing above revetment, top of bund and turning it one yard on the back to protect the new laid earth.	0 0 3	Sq. yd.	74 7 3	
	Sundries and superintendence ...	2 8 0	Cent.	8 13 9	508 15 0
4,096	Outlay in filling breaches, &c.				
	Cubic yards of earthwork (lead 60 yards.)	0 1 6	C. yd.	384 0 0	
1,830	Cubic yards of earthwork (lead 10 yards and lift 4 yards.)	0 1 0	"	114 6 0	
5,142	Cubic yards of watering and ramming.	0 0 3	"	80 5 6	
806	Square yards of turfing ...	0 0 3	Sq. yd.	12 9 6	
41	Cubic yards of new stone revetment.	0 12 0	C. yd.	30 12 0	
210	Cubic yards of earthwork opening bund.	0 1 0	"	13 0 0	635 1 0
	Total ...	...	...	...	1,144 0 0

AGRICULTURAL—ORDINARY—CAPITAL.

ABSTRACT ESTIMATE.
District, Chingleput; Taluq, Madranticum; Village, Mambaukum.
WORK.—Constructing a Weir 164 feet long in the Tank Bund.

Quantity.	Description of Charges.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
21	Cubic yards of concrete with 2 broken stones, 2 of broken bricks or burnt clay, 2 of sand from the Palar, and 1½ of lime.	3 12 0	C. yd.	78 12 0	
75½	Cubic yards of stone in chunam with mortar, 1½ of sand to lime, sand from the Palar, 12 miles.	2 12 0	"	207 10 0	
11	Squares of plastering ...	2 0 0	Sqre.	22 0 0	
151	Cubic yards of excavating ...	0 1 3	C. yd.	11 12 9	
381	Do. do. ...	0 1 0	"	23 13 0	
158	Do. of loose stones packing with small stones in the interstices of pavement and to back of revetment.	1 0 0	"	158 0 0	
15	Cubic yards of backing revetment with shingle or small stone.	0 4 0	"	3 12 0	
	Sundries and superintendence ...	5 0 0	Cent.	24 4 3	530 0 0
	Total ...	...	...	...	...

Proceedings of the Madras Government, Public Works Department,
23rd August 1875.

No. 386.

ORDER THEREON, 23rd August 1875, No. 2,417.

IRRIGATION, No. 23-E.

Account.

THE following estimate for the repair and improvement of a tank in the Chingleput District is sanctioned :—

Revenue. Capital.
RS. RS.

Mambaukum Tank 1,144 530

2. The considerable group of which the above tank is a member should be taken up and rendered efficient as soon as possible.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Superintending Engineer, Chingleput. ✓
" Chief Engineer for Irrigation. ✓
" Controller of Public Works Accounts. ✓

Exd. E. C. Shunker.
Spare Copies

Irrigation.

18931

Memorandum.

Enclosure 3.

The following estimate has been submitted by the Superintending Engineer.

Dumbankam tank. Rupees 1646

Adjacent area acres 107

" assessment Rupees 313

Average revenue " 251

The expenditures on repairs of this tank in the last 4 years has amounted to Rs 1659.

The absence of adequate means of disposing of surplus has been the cause of the outlay incurred and required to render this tank safe. With a drainage basin of 11 square miles and 16 tanks above it, the surplus weirs provided measure only 45 feet in length, and 114 feet additional are required. The tank breached in 1872 and again in 1874, and these accidents would be certainly repeated in every year of heavy rainfall were not the requirements of the situation of the tank.

hanks be attended to. The group of 15 tanks should have been treated as a whole and at any rate the Superintendents should have given a list of the other 14, with the approximate areas of their catchment basins, lengths of their main lines - Allowance must be made for the difficulty of doing work properly with a small establishment, but as little delay as possible should be allowed to occur in making the whole of these tanks safe. All that can be said about the Mainbank tank until this is done is that it will be much safer than it has before been.

The South Indian Railway is interested in the Mamlaikum and other tanks of the group being made secure.

The Super Engineer has asked the question whether this tank should be entered in class 3 or class 4. It is somewhat difficult to decide this point, as the South Channel from the Quadrantum

tank passes through it, and ultimately an important part of its supply may be therefrom received. The Madranticum tank itself belongs to class 4, as it receives no water from beyond its own catchment basin, and that is the condition dividing the two classes. It appears the best to adhere to this rule and so the Nambankum Tank should come under class 3 viz Irrigation under minor streams and tanks supplied by them. of the total of the estimate items amounting to Rupees 1164, will be chargeable to Revenue, and the additional surplus will be Rupees 530 of Capital.

~~Wm. L. L.~~ Leach Falls N.C.
Chief Engineer for Irrigation

Polacumund
18. August 1876.

To, The Secy. W Government

P. W. 1875 Sept.
No: 5477

From

The Chief Ingn
for Design.

Dated 15 Aug. 1875.
Recd. 25 - 1875.

E. 3. No. 901.

Memo. on file.
for the repair and
improvement of the
Mambankum Bank,
Chingleput Dist.

G.O. 2417. 29.8.75.

Agricultural ordinary
Abstract Estimate No 7 1874/75
Chingleput Taluk Madurankurum Village
Mark - Repairing the large tank bund and escape weir of
130 ft long in the Verapetam tank.

Revenue

Description of charges Rates of Sub. Est.

4296	Cy of Earth work bund 10 yards and high 4 yards	3	1	Cy 268 8
"	Do of watering and raining	2	3	67 2
2984	Sq yards of Turfing	2	3	46 10
2238	Do of Fencing ^{planting} above revetment	2	6	69 15
385	Cy of repacking old stone revetment	4	2	96 4
	Sundries and Superintendence	2	8	13 9
	Total			562

Repairing West Escape Weir

41	Cy of Rough stone in Chinnam	2	8	Cy 102 8
5	Sq of Plastering	2	0	11 0
	Sundries	5	0	5 8
	Total			118

Repairing sluice and building a new lead to the bank

29	Cy of Bricks in Chinnam	3	8	Cy 101 8
2	Do of Coping arch with brick jelly	3	8	7 0
3	Sq of Plastering	2	0	6 0
349	Cy of Earth work	2	1	Cy 21 13
	Dismantling head of sluice			4 8
1	Crash stone over retaining wall holding plug hole	3	3	3 0
	Sundries	5	0	9 3
	Total			153

Carried over 833

Brought Over

Temporary escape opening in the bund

340	Calcu yards of Earth work	1	2	Cy 21	4	
600	Spzards of planting tank grass and watering it until well grown	3	4	1	60	56 4
	Sundries and contingencies	2	8	Cy 1	8	77
	Total					79

1796	Cost of Earth work in filling breach including watering and ramming average lead 60 yards	3	4	1	60	168 6
768	Do Do lead 20 yards	1	3	0	60	
112	Do Do New Shiva Revetment	10	0	0	70	
	Total					298

Note. The total quantity of earthwork for filling breaches in the detail of estimate is 2735 Cy but the actual quantity used is 2564 Cy the difference is due to the increased bulk of earth in embankment.

Loose stone escape 130 feet long

165	Qty of loose stone	1	2	Cy 165		
17	Do of backing Revetment with single or small stones	3	4	10	4	4
374	Do of Earth work	1	3	0	29	3 6
	Sundries & Im	5	2	Cy 11	8	6
	Total					210

Qd-23 Aug 1875 No 2417

Total Estimate Rupees - 1420

No 2417 18. H. C. Dec 11

Proceedings of the head and easement

Under date the 23rd August 1875

Read the following:-

From,

The Chief Engineer for Irrigation } (H. C. No 931 d, 18th Aug 1875)

The following estimate for the repair and improvement of a tank in the Chingleput District is sanctioned.

	Revenue	Capital
	Rupees	Rupees
Mamlaankam Tank	1100	500

The considerable group of which the above tank is a member should be taken up and rendered efficient as soon as possible.

Supplying Chingleput - 6 with Plans Estimate
Chingleput - 5 specification - 19/5
And 11/10

x attch

SC No 10 - 8-9-75

Cy 5427

of 1875 Madras.

PUBLIC WORKS.

To

Mr. Highm.
Chingleput

Dated

Issued

Recd.

Encl.

G. O., 7th Dec 1875, No. 2417

Nos. 385- - 386

Memorandum Santh.
Chingleput Dist. - The
Estimate amounting to Rs
1674 for the repair and
improvement of the
sanctioned with remarks

N^o 385/6