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# MADRAS RECORD OFFICE

## Government of Madras

*Public Works* DEPARTMENT

|          |          |       |
|----------|----------|-------|
| G.O. No. | 2442     | Press |
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| Dated    | 13-9-195 | 1876  |

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
13th September 1876. No. 2,442.*

Read the following:—

No. 178 W.

No. 193. *Note by the Chief Engineer for Irrigation.*

THE Superintending Engineer, Chingleput, forwards, with his letter marginally noted, an estimate in connection with the Kulcolum tank, situated in the Madranticum taluq, No. 3 or Chingleput Range.

No. 398, dated 10th May 1876.

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

| ORDINARY AGRICULTURAL.                                                                                                       |     |     |     |     |     |     | RS.   |
|------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-------|
| Original Works.                                                                                                              |     |     |     |     |     |     |       |
| Constructing a masonry weir                                                                                                  | ... | ... | ... | ... | ... | ... | 410   |
| Repairs.                                                                                                                     |     |     |     |     |     |     |       |
| Reconstructing an irrigation sluice                                                                                          | ... | ... | ... | ... | ... | ... | 1,520 |
| Repairing the bund, removing the upright stones of calingulah, lowering the crest of weir, and relaying their surface stones | ... | ... | ... | ... | ... | ... | 3,095 |
| Total                                                                                                                        |     |     |     |     |     |     | 5,025 |

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

|                                            |     |     |     |     |     |        |       |
|--------------------------------------------|-----|-----|-----|-----|-----|--------|-------|
| Ayacut area                                | ... | ... | ... | ... | ... | Acres  | 578   |
| Assessment                                 | ... | ... | ... | ... | ... | Rupees | 2,500 |
| Average revenue                            | ... | ... | ... | ... | ... | "      | 1,121 |
| Highest do.                                | ... | ... | ... | ... | ... | "      | 1,632 |
| Expenditure during the previous four years | ... | ... | ... | ... | ... | "      | 3,146 |

The area of the catchment basin is 8 square miles; the maximum flood-supply is calculated at 2,250 cubic feet per second, for discharging which, as surplus there are two outlets, one a calingulah of 30 feet and the other a weir of 62 feet, and it is proposed to construct an additional weir of 77 feet, making an aggregate length of 169 feet available for the surplus discharge. It is also proposed to remove the dam stones of the calingulah, and to lower the body wall of the existing weir. The estimate also provides for the bund repairs and the reconstruction of an irrigation sluice which was washed away by the floods of 1874.

4. The circumstances of this tank have been discussed with the Superintending Engineer in correspondence marginally noted. The original 'ayacut' has been reduced from 578 to about 320 acres, and the reduction of the storage capacity by lowering the weir is therefore feasible without loss of revenue. By the arrangements proposed the tank when full will contain about 3.2 million, instead of 6.47 million, cubic yards of water, and the length of weir provided will at the same time discharge the flood-supply with safety.

5. The position selected for the additional weir is not clearly shown. In the survey of the tank and the longitudinal section of the bund, the ground at the site indicated is apparently 5½ feet below F.T.L. and west of the large calingulah. In the section of the weir it is shown to be 1½ feet below F.T.L. Further, on a survey plan of the ground at the back of the large calingulah the ground is shown as cut away east of the large calingulah, and at the extreme flank of the bund to form a flush escape.

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13th September 1876. No. 2,442.

6. The reconstruction of the irrigation sluice which was destroyed in 1874 has not been shown to be necessary on hydraulic grounds, that is to say, it has not been demonstrated that the remaining sluices cannot do the work of the one destroyed as well as their own. In fact it is obvious that so far as command goes they are fully capable of irrigating all the ayacut, and the waste of water which would ensue by the abandonment of the low level sluice in question would be insignificant, viz., 35,000 cubic yards, or about enough for, say, 6 acres. The total acreage that would be irrigated from this sluice (C) is 100 acres, and the channel from the ruined sluice can easily be supplied from the next sluice (B). It appears to the undersigned therefore that it would be a waste of money to spend Rupees 1,520 on the reconstruction of sluice (C), and an item of Rupees 50 has been allowed for any alterations necessary to sluice B to enable it conveniently to supply the channel of former sluice B and for a connecting channel.

7. The estimate without the item for the sluice is recommended for sanction.  
(Signed) A. DEC. SCOTT, Major, R.E.,  
Dy. Chief Engineer for Irrigation,  
for Chief Engineer for Irrigation.

7th September 1876.

To the Secretary to Government, Public Works Department.

No. 194. ORDER THEREON, 13th September 1876, No. 2,442.

IRRIGATION, No. 23.

Account.

THE following estimate from the No. 3 or Chingleput Range, forwarded by the Superintending Engineer, Chingleput, is sanctioned:—

KULCOLUM TANK.  
Irrigation.

Ordinary Agricultural.

|                                                                                                       | rs.   |
|-------------------------------------------------------------------------------------------------------|-------|
| 1. Constructing a masonry weir. Original Works ... ..                                                 | 410   |
| 2. Altering an Irrigation sluice B, and connecting it with channel of ruined sluice B, Repairs ... .. | 50    |
| 3. Repairing the bund and altering a weir. Repairs ... ..                                             | 3,095 |
| Total ... ..                                                                                          | 3,555 |

2. This sanction has been registered as No. 148 I of 1876-77.  
(True Extract.)

Colonel,  
Offg. Under Secy. to Govt., P.W.D.

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

Exd. S. T. Austin.  
Spate Copies

E. I. Form No. 4.

No. 2442 MD  
No. of the Madras Govt.  
Under date the 13<sup>th</sup> Sept. 1876.  
Read the following

From the Engineer for Irrigation (H.E. of 7<sup>th</sup> Sept. 76/1876)

The following Estimate from the No. 3 or Chingleput Range forwarded by the District Engineer, Chingleput, is sanctioned:—

Kulcolum Tank.

Irrigation.  
Ordinary Agricultural.

1. Constructing a masonry weir - Original Works - Rs 410
2. Altering an Irrigation sluice B and connecting it with channel of ruined sluice B ————— Repairs — — 50
3. Repairing the bund and altering a weir ————— do — — 3,095

Total Rupees. 3,555

2. This sanction has been registered as No. 148. I. of 1876-77.

S. E. Chingleput  
Collector do  
C. E. for I. with Enclaves  
En. P. W. D.  
Recd Sept 20/9/76

Adul S

6699 CH

Govt. of 1876 Madras.

PUBLIC WORKS.

To

The M. L. Chingleput

Dated

Issued

Recd.

Encl.

G. O., 18<sup>th</sup> Sept 1876, No. 1412

Nos. 12/92

Anticolum Park

Chingleput Dist

estimate for repairs &  
improvements to the  
same of -

2-10-98