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# MADRAS RECORD OFFICE

## Government of Madras

*Public Works*

DEPARTMENT

|          |          |       |
|----------|----------|-------|
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9th August 1875.*

No. 174.

Read the following :—

No. 880.

**MEMORANDUM.**

THE following estimates have been submitted by the Superintending Engineer, Chingleput :—

Valiembakum Tank, Rupees 630.

|                     |     |     |     |     |     |     |     |            |
|---------------------|-----|-----|-----|-----|-----|-----|-----|------------|
| Ayacut area ...     | ... | ... | ... | ... | ... | ... | ... | Acres 69   |
| " assessment ...    | ... | ... | ... | ... | ... | ... | ... | Rupees 200 |
| Average revenue ... | ... | ... | ... | ... | ... | ... | ... | " 189      |

Outlay on repairs in last four years Rupees 79. The tank has a drainage basin of 1 square mile, and receives a small supply from the Ongare Madugu. The estimate provides for ordinary repairs and for the disposal of surplus by a dry stone weir 68 feet long. In the design of the latter work the so-called guard stones would not, it is thought, be of any use, and it will be better to build the revetments at the end of the bund substantially with backing; the money provided for the guard stones can be used for this purpose and for making the apron a little thicker for a width of 3 or 4 feet on the tank side.

2. Velangadu Large Tank, Rupees 1,791.

|                     |     |     |     |     |     |     |     |            |
|---------------------|-----|-----|-----|-----|-----|-----|-----|------------|
| Ayacut area...      | ... | ... | ... | ... | ... | ... | ... | Acres 206  |
| " assessment ..     | ... | ... | ... | ... | ... | ... | ... | Rupees 747 |
| Average revenue ... | ... | ... | ... | ... | ... | ... | ... | " 751      |

The cost of repairs during the last four years has been Rupees 174. The catchment basin is  $2\frac{1}{2}$  square miles. The tank was damaged in 1872 and sustained further injuries and was breached in 1874. The existing escape measures only 34 feet and is quite inadequate, so a new surplus weir 57 feet long is to be given. The work chargeable to Revenue is estimated to cost Rupees 1,454, and that to Capital Rupees 337.

3. Seevady Large Tank, Rupees 1,049.

|                     |     |     |     |     |     |     |     |            |
|---------------------|-----|-----|-----|-----|-----|-----|-----|------------|
| Ayacut area ...     | ... | ... | ... | ... | ... | ... | ... | Acres 104  |
| " assessment ..     | ... | ... | ... | ... | ... | ... | ... | Rupees 429 |
| Average revenue ... | ... | ... | ... | ... | ... | ... | ... | " 460      |

The outlay on repairs in the last four years has been Rupees 184. The area of the catchment basin is stated to be  $2\frac{1}{2}$  square miles, and there is one tank above the Oolathamungalum, regarding which no information has been given. The tank breached in 1872, and nothing but ordinary repairs having been done to it, it breached again in 1874. The existing escape is 30 feet long and another of simple form 85 feet in length is to be provided, the difference between F. T. L. and M. W. L. being fixed at 2 feet. The proposed outlay may be all charged to Revenue, as the only new work is a dry stone pavement estimated to cost Rupees 161.

4. Seevady Small Tank, Rupees 260.

|                     |     |     |     |     |     |     |     |           |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----------|
| Ayacut area ..      | ... | ... | ... | ... | ... | ... | ... | Acres 15  |
| " assessment ...    | ... | ... | ... | ... | ... | ... | ... | Rupees 56 |
| Average revenue ... | ... | ... | ... | ... | ... | ... | ... | " 56      |

The cost of repairs in the last four years is put down at Rupees 184, which it will be seen is the same amount as that for the large tank, and it is not clear whether the expenditure was 368 or 184 Rupees on the two tanks.

The catchment basin is reported to be  $\frac{1}{2}$  a square mile, and it is mentioned that most of the supply is received from the large tank which adjoins, and that the small

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tank is required to be maintained. The subject of the abolition of some of the numerous petty tanks, when this can be done, is one of much importance, and as soon as possible the question of the best way of storing the water supply available in the valley of any particular group of tanks should be taken up and the necessary data for determining the best arrangements obtained. The bund is to be made  $3\frac{1}{2}$  feet above full tank level, and surplus is to be disposed of by levelling the ground for a length of 60 feet; unless the soil be hard, without a pavement there will be risk of waste of water, and it may be advisable to place a pavement 1 yard wide and  $\frac{1}{2}$  a yard deep in order to preserve the F. T. L. correctly, and to remove the temptation of bunding across the opening. The work contemplated will all be chargeable to Revenue.

5. Serukolathur Tank, Rupees 1,096.

|                 |     |     |     |     |     |     |            |
|-----------------|-----|-----|-----|-----|-----|-----|------------|
| Ayacut area     | ... | ... | ... | ... | ... | ... | Acres 115  |
| " assessment    | ... | ... | ... | ... | ... | ... | Rupees 397 |
| Average revenue | ... | ... | ... | ... | ... | ... | " 384      |

Expenditure on repairs in the last four years Rupees 253, which was for closing breaches.

The drainage area is about 1 square mile, but hitherto overflow from an adjacent basin, which is to be prevented in future by a small extension of the bund, has had much to do with accidents to the tank. There is a surplus weir 35 feet long which, as the tank receives water from the Madranticum reservoir, is to be supplemented by a pavement 62 feet long, and this may, it is thought, be placed 6 inches above F. T. L. The bund which is now about 3 feet above F. T. L. is to be raised to  $4\frac{1}{2}$  feet. The whole expenditure will be chargeable to Revenue. The sketch does not indicate the intended position of the supplementary weir, and the sloping stones at its two ends may be omitted.

6. Ladacarany Balasamudrum Tank, Rupees 1,099.

|                 |     |     |     |     |     |     |              |
|-----------------|-----|-----|-----|-----|-----|-----|--------------|
| Ayacut area     | ... | ... | ... | ... | ... | ... | Acres 397    |
| " assessment    | ... | ... | ... | ... | ... | ... | Rupees 1,481 |
| Average revenue | ... | ... | ... | ... | ... | ... | " 612        |

Outlay on repairs in the last four years Rupees 193. The tank has a drainage basin of  $3\frac{1}{2}$  square miles and has three tanks above it within this basin. The ayacut appertains to the large and small tanks as well as this one. Paragraph 11 of the report is not clear as to the drainage basin on which the ayacut is dependent. It would be much better were all the tanks of small groups taken up and dealt with comprehensively at one time, for otherwise there will be much risk of waste of money in repairing tanks which are of little use. As far as the circumstances can be understood, the drainage in future to enter the tank is to be limited to that from 1 square mile, and the rest is to pass direct into the large tank. There being no means at present of disposing of surplus, a dry stone pavement  $62\frac{1}{2}$  feet long is provided for in the estimate, and the bund is to be  $4\frac{1}{2}$  feet above F. T. L. The whole estimate will be a charge against Revenue.

7. Attrumbaukum Tank, Rupees 600.

|                 |     |     |     |     |     |     |            |
|-----------------|-----|-----|-----|-----|-----|-----|------------|
| Ayacut area     | ... | ... | ... | ... | ... | ... | Acres 121  |
| " assessment    | ... | ... | ... | ... | ... | ... | Rupees 401 |
| Average revenue | ... | ... | ... | ... | ... | ... | " 351      |

Date and cost of last repairs not known. The area of the catchment basin is said to be 2 square miles, which is somewhat small for the average area, about 105

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acres, cultivated. Surplus has been discharged at the ends of the bund over a length of 180 feet, and this arrangement appears to have been sufficient, as no regular breaches have occurred, but two gaps have resulted from cuts made for irrigation purposes by the villagers. The tank has one sluice which ought to suffice for this small acreage, and perhaps may be made sufficient by enlarging the plug holes and vent, or forming a channel from it to irrigate the lands under the cuts. The design for a new sluice is unsuitable, and the masonry may be much better disposed. Indeed, the rear wall would not stand, its thickness being but little more than one-seventh of the height, while the earth slopes would extend over the vent. A revised design should be prepared. The repair estimate, Rupees 470, may be sanctioned as a Revenue charge.

OOTACAMUND, (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,  
4th August 1875. Offg. Chief Engineer, P.W.D.

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Valiembakum.

WORK.—Repairing the Valiembakum Large Tank.

| Quantity.                            | Description of Charges.                                                                     | Rate.     | Per      | Amount.   | Total. |
|--------------------------------------|---------------------------------------------------------------------------------------------|-----------|----------|-----------|--------|
|                                      |                                                                                             | RS. A. P. |          | RS. A. P. | RS.    |
| 2,530                                | Cubic yards of earth work ...                                                               | 0 1 0     | C. yd.   | 158 2 0   |        |
| 2,530                                | Do. of watering and ramming ...                                                             | 0 0 3     | "        | 39 8 6    |        |
| 4,250                                | Square yards of turfing ...                                                                 | 0 0 3     | Sqr. yd. | 66 6 6    |        |
| 2,480                                | Do. of nanel planting and watering it for three months ...                                  | 0 0 6     | "        | 77 8 0    |        |
| <i>Supply Channel.</i>               |                                                                                             |           |          |           |        |
| 840                                  | Cubic yards of earth work ...                                                               | 0 0 10    | C. yd.   | 43 12 0   |        |
|                                      | Sundries and superintendence ...                                                            | 2 8 0     | Cent.    | 9 11 0    |        |
|                                      | Narrowing the mouth and revetting the sides with loose stone to the head of the channel ... | ...       | ...      | 15 0 0    | 410    |
| <i>Closing old Temporary Escape.</i> |                                                                                             |           |          |           |        |
| 371                                  | Cubic yards of earth work ...                                                               | 0 1 0     | C. yd.   | 23 3 0    |        |
| 610                                  | Square yards of planting tank grass ...                                                     | 0 0 6     | Sqr. yd. | 15 15 0   |        |
|                                      | Sundries and superintendence ...                                                            | 2 8 0     | Cent.    | 0 14 0    | 40     |
| <i>Escape Weir, 68 feet long.</i>    |                                                                                             |           |          |           |        |
|                                      | Cubic yards of loose stone ...                                                              | 1 4 0     | C. yd.   | 133 12 0  |        |
| 107                                  | Guard stones (6 x 1 $\frac{1}{2}$ ) ...                                                     | 2 0 0     | Each.    | 24 0 0    |        |
| 8                                    | Cubic yards of earth work ...                                                               | 0 1 0     | C. yd.   | 13 11 0   |        |
| 219                                  | Sundries and superintendence ...                                                            | 5 0 0     | Cent.    | 8 9 0     | 180    |
|                                      | Total ...                                                                                   | ...       | ...      | ...       | 630    |

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AGRICULTURAL—ORDINARY—CAPITAL.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Velangadu.  
WORK.—Constructing an escape weir 57 feet long in the Velangadu.

| Quantity. | Description of Charges.            | Rate.     | Per     | Amount.   | Total. |
|-----------|------------------------------------|-----------|---------|-----------|--------|
| 12        | Cubic yards of concrete ...        | RS. A. P. |         | RS. A. P. | RS.    |
| 45        | Do. of stone in chunam ..          | 3 12 0    | C. yd.  | 45 0 0    |        |
| 5         | Squares of plastering ...          | 2 12 0    | "       | 123 12 0  |        |
| 95        | Cubic yards of loose stone work .. | 2 0 0     | Square. | 10 0 0    |        |
| 15        | Do. of backing revetment ..        | 1 4 0     | C. yd.  | 118 12 0  |        |
| 280       | with shingle or small stones ...   | 0 6 0     | "       | 5 10 0    |        |
|           | Do. of earth work ...              | 0 1 0     | "       | 17 8 0    |        |
|           | Sundries and superintendence ...   | 5 0 0     | Cent.   | 16 6 0    |        |
|           | Total ...                          | ...       | ...     | ...       | 337    |

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Velangadu.  
WORK.—Repairing the Velangadu Large Tank and its Calingulah and Sluice.

| Quantity. | Description of Charges.                                                                       | Rate.     | Per      | Amount.   | Total. |
|-----------|-----------------------------------------------------------------------------------------------|-----------|----------|-----------|--------|
| 3,598     | Cubic yards of earth work lead 30 yards ...                                                   | RS. A. P. |          | RS. A. P. | RS.    |
| 3,000     | Do. do. do. 20 yards ...                                                                      | 0 1 3     | C. yd.   | 281 1 6   |        |
| 2,000     | Do. do. do. 10 " ...                                                                          | 0 1 1½    | "        | 210 15 0  |        |
| 8,598     | Do. of watering and ramming ...                                                               | 0 1 0     | "        | 125 0 0   |        |
| 6,781     | Square yards of turfing ...                                                                   | 0 0 3     | "        | 134 5 6   |        |
| 3,939     | Do. of planting nanel or kuskuss grass below F. T. L. to be watered until properly grown ...  | 0 0 3     | Sqr. yd. | 105 15 3  |        |
|           | Sundries and superintendence ...                                                              | 0 0 9     | "        | 184 10 3  |        |
|           |                                                                                               | 2 8 0     | Cent.    | 26 0 6    | 1,068  |
| 42        | Repairing a calingulah 34 feet long. Cubic yards of rough stone in chunam ...                 |           |          |           |        |
| 8         | Squares of plastering ...                                                                     | 2 8 0     | C. yd.   | 105 0 0   |        |
| 44        | Cubic yards of old stone work ...                                                             | 2 0 0     | Square.  | 16 0 0    |        |
| 6         | Squares of pointing ...                                                                       | 0 4 0     | C. yd.   | 11 0 0    |        |
| 25        | Cubic yards of removing old building ...                                                      | 1 0 0     | Square.  | 6 0 0     |        |
|           | Sundries ...                                                                                  | 0 4 0     | C. yd.   | 6 0 0     |        |
|           |                                                                                               | 5 0 0     | Cent.    | 7 0 0     | 151    |
| 29        | Repairing sluice and building a new head close to the bank. Cubic yards of brick in chunam .. |           |          |           |        |
| 2         | Do. of coping arch with brick jelly ...                                                       | 3 8 0     | C. yd.   | 101 8 0   |        |
| 3         | Squares of plastering ...                                                                     | 3 8 0     | "        | 7 0 0     |        |
| 349       | Cubic yards of earth work ...                                                                 | 2 0 0     | Square.  | 6 0 0     |        |
|           | Dismantling head of sluice ...                                                                | 0 1 0     | C. yd.   | 21 13 0   |        |
| 1         | Cross stone over retaining wall holding plug-pole ...                                         | ...       | ...      | 4 8 0     |        |
|           | Sundries and superintendence ...                                                              | 3 0 0     | Each.    | 3 0 0     |        |
|           |                                                                                               | 5 0 0     | Cent.    | 7 3 0     | 151    |

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WORK.—Repairing the Velangadu Large Tank and its Calingulah and Sluice.—(Concl'd.)

| Quantity. | Description of Charges.                                                   | Rate.     | Per      | Amount.   | Total. |
|-----------|---------------------------------------------------------------------------|-----------|----------|-----------|--------|
| 398       | Temporary escape opening in the bund. Cubic yards of earth work ...       | RS. A. P. |          | RS. A. P. | RS.    |
| 600       | Square yards of planting lanka grass and watering it until well grown ... | 0 1 0     | C. yd.   | 24 14 0   |        |
|           | Sundries and superintendence ...                                          | 0 1 6     | Sqr. yd. | 56 4 0    |        |
|           |                                                                           | 2 8 0     | Cent.    | 2 14 0    | 84     |
|           | Total ...                                                                 | ...       | ...      | ...       | 1,454  |

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Seevady.  
WORK.—Repairing the Seevady Large Tank.

| Quantity. | Description of Charges.                                           | Rate.     | Per    | Amount.   | Total. |
|-----------|-------------------------------------------------------------------|-----------|--------|-----------|--------|
| 1,395     | Cubic yards of earth work ...                                     | RS. A. P. |        | RS. A. P. | RS.    |
| 3,078     | Do. do. ...                                                       | 0 1 3     | C. yd. | 108 15 9  |        |
| 4,473     | Do. of watering and ramming ...                                   | 0 1 0     | "      | 192 6 0   |        |
| 2,395     | Do. of earth work ...                                             | 0 0 3     | "      | 69 14 3   |        |
| 970       | Do. of watering and ramming ..                                    | 0 1 3     | "      | 187 1 9   |        |
| 1,476     | Square yards of turfing ...                                       | 0 0 3     | "      | 15 2 6    |        |
| 984       | Do. of planting kuskuss grass... Sundries and superintendence ... | 0 0 3     | S. yd. | 23 1 0    |        |
|           |                                                                   | 0 1 0     | "      | 61 8 0    |        |
|           |                                                                   | 2 8 0     | Cent.  | 11 14 9   | 670    |
|           | Repairing sluice and remodelling head, brick in chunam.           |           |        |           |        |
| 29        | Cubic yards of brick in chunam ...                                | 3 8 0     | C. yd. | 101 8 0   |        |
| 2         | Do. coping arch with brick jelly.                                 | 3 8 0     | "      | 7 0 0     |        |
| 3         | Squares of plastering ...                                         | 2 0 0     | Sqr.   | 6 0 0     |        |
| 349       | Cubic yards of earth work ...                                     | 0 1 0     | C. yd. | 21 13 0   |        |
| 1         | Cross stone over retaining wall holding plug pole ...             | 3 0 0     | Each.  | 3 0 0     |        |
|           | Dismantling head of sluice... Sundries and superintendence ...    | ...       | ...    | 4 0 0     |        |
|           |                                                                   | 5 0 0     | Cent.  | 6 11 0    | 150    |
|           | Temporary escape opening in the bund.                             |           |        |           |        |
| 358       | Cubic yards of earth work... Square yards of planting tank grass. | 0 1 0     | C. yd. | 22 6 0    |        |
| 470       | Sundries and superintendence ...                                  | 0 1 6     | S. yd. | 44 1 0    |        |
|           |                                                                   | 2 8 0     | Cent.  | 1 9 0     | 68     |
|           | Loose stone escape weir, 85 feet long.                            |           |        |           |        |
| 123       | Cubic yards of loose stone ...                                    | 1 0 0     | C. yd. | 123 0 0   |        |
| 17        | Do. of gravel or shingle ...                                      | 0 6 0     | "      | 6 6 0     |        |
| 253       | Do. of earth work ... Sundries and superintendence ...            | 0 1 6     | "      | 23 11 6   |        |
|           |                                                                   | 5 0 0     | Cent.  | 7 14 6    | 161    |
|           | Total .                                                           | ...       | ...    | ...       | 1,049  |

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AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Seerady.

WORK.—Repairing the Seevady Tangul.

| Quantity. | Description of Charges.                                                 | Rate.     | Per    | Amount.   | Total. |
|-----------|-------------------------------------------------------------------------|-----------|--------|-----------|--------|
|           |                                                                         | RS. A. P. |        | RS. A. P. | RS.    |
| 1,973     | Cubic yards of earth work ...                                           | 0 1 0     | C. yd. | 123 5 0   |        |
| 1,973     | Do. of watering and ramming... ..                                       | 0 0 3     | "      | 30 13 3   |        |
| 376       | Do. of earth work ...                                                   | 0 1 0     | "      | 23 8 0    |        |
| 376       | Do. of watering and ramming... ..                                       | 0 0 3     | "      | 5 14 0    |        |
| 1,386     | Square yards of turfing ...                                             | 0 0 3     | S. yd. | 21 10 6   |        |
| 840       | Do. of planting nanel or kuskuss grass and watering it for 3 months ... | 0 0 9     | "      | 39 6 0    |        |
|           | Sundries and superintendence...                                         | 2 8 0     | Cent.  | 5 7 3     |        |
|           | Repairing sluice ...                                                    |           |        | 10 0 0    |        |
|           | Total ...                                                               |           |        |           | 260    |

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Serukolathur.

WORK.—Repairing the Serukolathur Tank.

| Quantity. | Description of Charges.                                        | Rate.     | Per    | Amount.   | Total. |
|-----------|----------------------------------------------------------------|-----------|--------|-----------|--------|
|           |                                                                | RS. A. P. |        | RS. A. P. | RS.    |
| 6,726     | Cubic yards of earth work ...                                  | 0 1 0     | C. yd. | 420 6 0   |        |
| 6,726     | Do. of watering and ramming... ..                              | 0 0 3     | "      | 105 1 6   |        |
| 2,129     | Do. of earth work for breach ...                               | 0 1 0     | "      | 133 1 0   |        |
| 2,129     | Do. of watering and ramming... ..                              | 0 0 3     | "      | 33 4 3    |        |
| 52        | Do. of opening bund for escape... ..                           | 0 1 3     | "      | 4 1 0     |        |
| 5,596     | Square yards of turfing ...                                    | 0 0 3     | S. yd. | 87 7 0    |        |
| 4,197     | Do. of planting kuskuss grass and watering it for 3 months ... | 0 0 6     | "      | 131 2 6   |        |
|           | Sundries and superintendence ...                               | 2 8 0     | Cent.  | 18 8 9    |        |
|           | Loose Stone Escape Weir, 62 feet long.                         |           |        |           | 933    |
| 114       | Cubic yards of loose rough stone ...                           | 1 0 0     | C. yd. | 114 0 0   |        |
| 8         | Upright stone (6 x 1½ x 1) ...                                 | 3 0 0     | Each.  | 24 0 0    |        |
| 185       | Cubic yards of earth work ...                                  | 0 1 6     | C. yd. | 17 5 6    |        |
|           | Sundries and superintendence...                                | 5 0 0     | Cent.  | 7 10 6    |        |
|           | Total ...                                                      |           |        |           | 163    |
|           |                                                                |           |        |           | 1,096  |

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AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluq, Madranticum; Village, Ladcarany.

WORK.—Repairing Balasamudrum Tank.

| Quantity. | Description of Charges.                                     | Rate.     | Per    | Amount.   | Total.    |
|-----------|-------------------------------------------------------------|-----------|--------|-----------|-----------|
|           |                                                             | RS. A. P. |        | RS. A. P. | RS. A. P. |
| 3,714     | Cubic yards of earth work ...                               | 0 1 0     | C. yd. | 232 2 0   |           |
| 502       | Do. of do. ...                                              | 0 1 3     | "      | 39 3 6    |           |
| 4,216     | Do. of watering and ramming... ..                           | 0 0 3     | "      | 65 14 0   |           |
| 1,543     | Do. of earth work ...                                       | 0 1 3     | "      | 120 8 9   |           |
| 651       | Do. of watering and ramming... ..                           | 0 0 3     | "      | 10 2 9    |           |
| 705       | Do. of old stone revetment... ..                            | 0 4 0     | "      | 176 4 0   |           |
| 2,463     | Square yards of turfing ...                                 | 0 0 3     | S. yd. | 38 7 9    |           |
| 501       | Do. of do. ...                                              | 0 0 3     | "      | 7 13 3    |           |
|           | Sundries and superintendence ...                            | 2 8 0     | Cent.  | 13 8 0    |           |
|           |                                                             |           |        |           | 704 0 0   |
|           | Repairing sluice and building a new head close to the bank. |           |        |           |           |
| 29        | Cubic yards of brick in chunam ...                          | 3 8 0     | C. yd. | 101 8 0   |           |
| 2         | Do. of coping arch with brick jelly ...                     | 3 8 0     | "      | 7 0 0     |           |
| 3         | Squares of plastering ...                                   | 2 0 0     | Square | 6 0 0     |           |
| 349       | Cubic yards of earth work ...                               | 0 1 0     | C. yd. | 21 13 0   |           |
| 14        | Do. of knocking down and removing old sluice ...            | 0 4 0     | "      | 3 8 0     |           |
| 1         | Cross stone over retaining wall holding plug pole ...       | 3 0 0     | Each.  | 3 0 0     |           |
|           | Sundries and superintendence ...                            | 5 0 0     | Cent.  | 7 3 0     |           |
|           |                                                             |           |        |           | 150 0 0   |
|           | Temporary escape opening in the bund.                       |           |        |           |           |
| 237       | Cubic yards of earth work ...                               | 0 1 0     | C. yd. | 18 9 0    |           |
| 400       | Square yards of planting tank grass... ..                   | 0 1 6     | S. yd. | 37 8 0    |           |
|           | Sundries and superintendence ...                            | 2 8 0     | Cent.  | 1 15 0    |           |
|           |                                                             |           |        |           | 58 0 0    |
|           | Loose Stone Escape Weir, 62½ feet long.                     |           |        |           |           |
| 102       | Cubic yards of loose stone ...                              | 1 8 0     | C. yd. | 153 0 0   |           |
| 17        | Do. of backing revetment with shingle or small stones ...   | 0 6 0     | "      | 6 6 0     |           |
| 205       | Cubic yards of earth work ...                               | 0 1 6     | "      | 19 3 6    |           |
|           | Sundries and superintendence ...                            | 5 0 0     | Cent.  | 8 6 6     |           |
|           |                                                             |           |        |           | 187 0 0   |
|           | Total ...                                                   |           |        |           | 1,099 0 0 |

Proceedings of the Madras Government, Public Works Department,  
9th August 1875.

AGRICULTURAL—ORDINARY—REVENUE.

ABSTRACT ESTIMATE.

District, Chingleput; Taluk, Trivellore; Village, Attrumbaukum.

WORK.—Repairing Attrumbaukum Tank.

| Quantity.         | Description of Charges.                                      | Rate.                       | Per            | Amount.                         | Total.               |
|-------------------|--------------------------------------------------------------|-----------------------------|----------------|---------------------------------|----------------------|
| 3,216<br>11,469   | Cubic yards of earth work ...<br>Square yards of turfing ... | Rs. A. P.<br>0 1 0<br>0 0 3 | C.yd.<br>C.yd. | Rs. A. P.<br>201 0 0<br>179 0 0 | Rs. A. P.<br>380 0 0 |
| Repairing Sluice. |                                                              |                             |                |                                 |                      |
| 14                | Cubic yards of brick in mortar                               | 4 0 0                       | C. yd.         | 56 0 0                          |                      |
| 2                 | Squares of plastering                                        | 2 8 0                       | Sqre.          | 5 0 0                           |                      |
| 2                 | Granite slabs                                                | 1 0 0                       | Each.          | 2 0 0                           |                      |
| 1                 | Teak wood plug complete                                      | ...                         | ...            | 5 0 0                           |                      |
|                   | Removing and refixing sluice stones.                         | ...                         | ...            | 2 0 0                           |                      |
|                   | Dismantling old head                                         | ...                         | ...            | 8 0 0                           |                      |
|                   | Sundries                                                     | ...                         | ...            | 2 0 0                           |                      |
|                   | Sundries, &c.                                                | ...                         | ...            | ...                             | 80 0 0               |
|                   | Total estimate                                               | ...                         | ...            | ...                             | 10 0 0               |
|                   |                                                              |                             |                |                                 | 470 0 0              |

No. 175.

ORDER THEREON, 9th August 1875, No. 2,310.

IRRIGATION, No. 4.

Account.

THE following estimates for the  
repair and improvement of tanks in the  
Chingleput District are sanctioned:—

|                              | Capital. | Revenue. |
|------------------------------|----------|----------|
|                              | RS.      | RS.      |
| Valiembakum Tank             | ...      | 630      |
| Velangadu Large do.          | ...      | 1,454    |
| Seevady Large do.            | ...      | 1,049    |
| Do. Small do.                | ...      | 260      |
| Serukolathur do.             | ...      | 1,096    |
| Ladacarany Balasamudrum Tank | ...      | 1,099    |
| Attrumbaukum Tank            | ...      | 470      |

2. The Superintending Engineer's attention should be given to the remarks  
contained in the foregoing review of these estimates.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,

Secretary to Government.

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

Exd. E. C. Shunker.  
Spare Copies

Irrigation.

No. 880

Memorandum.

Enclosures  
14

The following estimates have been  
submitted by the Superintending  
Engineer, Chingleput.

Valiembakum Tank Rupees 630

Agacut area acres 69

Assessment Rupees 200

Average revenue " 189

Outlay on repairs in last 4 years Rupees 100

The tank has a drainage basin of 1 square  
mile, and receives a small supply from the

Angara bundage. The estimate provides for  
ordinary repairs and for the disposal of

surplus by a dry stone wall 68 feet long.

In the design of the latter work the so called  
guard stones would not, it is thought,

be of any use, and it will be better to  
quit the revetment at the end of the band

substantially with back ring; the money  
provided for the guard stones can be used

for this purpose and for making the apron  
a little thicker for a width of 3 or 4 feet  
on the tank side.

2. Velangadu large tank Rupees 1791  
Irrigated area acres 206

Assessment Rupees 467  
Average revenue " 751

The cost of repairs during the last 4 years has been Rs 174.  
The catchment basin is  $2\frac{1}{2}$  square miles.

The tank was damaged in 1872 and sustained further injuries and was breached in 1874.

The existing escape measures only 34 feet and is quite inadequate, so a new surplus weir 57 feet long is to be given. The work chargeable to Revenue is estimated to cost Rupees 1450 and that to Capital Rupees 337.

3. Seerady large tank Rupees 1049  
Irrigated area acres 104

Assessment Rupees 429  
Average revenue " 460

The outlay on repairs in the last 4 years has been Rs 144.  
The area of the catchment basin is stated to be  $2\frac{1}{2}$  square miles and there is one tank above.

The Golathammangalam. Regarding which no information has been given. The tank breached in 1872 and nothing but ordinary repairs having been done to it.

it, it breached again in 1874. The existing escape is 30 feet long and another of simple form 85 feet in length is to be provided, the difference between F.T.L. and M.W.L. being fixed at 2 feet. The proposed outlay may be all charged to Revenue, as the only new work is a dry stone pavement estimated to cost Rs 161.

4. Seerady small tank Rupees 260

Irrigated area acres 15

Assessment Rupees 56

Average revenue " 56

The cost of repairs in the last 4 years is put down at Rupees 184, which it will be seen is the same amount as that for the large tank, and it is not clear whether the expenditure was 368 or 184 Rupees on the two tanks.

The catchment basin is reported to be  $2\frac{1}{2}$  square miles, and it is mentioned that most of the supply is received from the large tank which adjoins, and that the small tank is required to be maintained. The subject of the

abolition of some of the numerous petty tanks, when this can be done, is one of much importance, and as soon as possible the question of the best way of storing the water supply available in the valley of any particular group of tanks should be taken up and the necessary data for determining the best arrangements obtained. The band is to be made  $3\frac{1}{2}$  feet above full tank level, and surplus is to be disposed of by levelling the ground for a length of 60 feet; unless the soil be hard, without a pavement there will be risk of waste of water, and it may be advisable to place a pavement 1 yard wide and  $\frac{1}{2}$  a yard deep in order to preserve the F.T.L. correctly, and to remove the temptation of bunding across the opening. The work contemplated will all be chargeable to Revenue.

5. Sernkolathur tank. Rupees 1076  
 Adjacent area. acres 115  
 Assessment Rupees 397  
 Average revenue " 384

Expenditure on repairs in the last 4 years Rupees 253 which was for closing breaches.

The drainage area is about 1 square mile, but hitherto overflow from an adjacent basin, which is to be prevented in future by a small extension of the band, has had much to do with accidents to the tank. There is a surplus weir 35 feet long which as the tank receives water from the Indraticum reservoir is to be supplemented by a pavement 62 feet long, and this may, it is thought, be placed 6 inches above F.T.L. - The band which is now about 3 feet above F.T.L. is to be raised to  $5\frac{1}{2}$  feet. The whole expenditure will be chargeable to Revenue. The sketch does not indicate the intended position of the supplementary weir, and the sloping staves at its two ends may be omitted.

6. Ladaasany Balavamudram tank. Rupees 1077  
 Adjacent area. acres 397  
 do Assessment Rupees 1481  
 Average revenue " 612

Outlay on repairs in the last 2 years Rupees 173.  
The tank has a drainage basin of  $2\frac{1}{2}$   
square miles and has 3 tanks above it  
within this basin. The agra cut affers  
tains to the large and small tanks  
as well as this one. Para 11 of the report  
is not clear as to the drainage basin  
in which the agra cut is dependent.  
It would be much better were all the  
tanks of small groups taken up and  
dealt with comprehensively at one time,  
for otherwise there will be much risk  
of waste of money in repairing tanks  
which are of little use. As far as the  
circumstances can be understood the  
drainage in future to enter the tank  
is to be limited to that from one square  
mile, and the rest is to pass direct into  
the large tank. There being no means  
at present of disposing of surplus a dry  
stone pavement  $62\frac{1}{2}$  feet long is provi-  
ded for in the estimate and the bund is  
to be  $4\frac{1}{2}$  feet above F.T.L. The whole

estimate will be a charge against Revenue  
of Athumbakane Tank. Rupees 600  
Agra cut area acres 121  
Reimbursement Rupees 401  
Average Revenue " 351

Date and cost of last repairs not known.  
The area of the catchment basin is said  
to be 2 square miles, which is somewhat  
small for the average area, about 103  
acres, cultivated. Surplus has been  
discharged at the ends of the bund  
over a length of 180 feet and this arrange-  
ment appears to have been sufficient  
as no regular branches have occurred,  
but two gaps have resulted from cuts  
made for irrigation purposes by the  
villagers. The tank has one sluice  
which ought to suffice for this small  
area, and perhaps may be made  
sufficient by enlarging the plug  
hole and vent or forming a channel  
from it to irrigate the lands under the  
cuts. The design for a new sluice is

inevitable, and the masonry may be  
 much better disposed. Indeed the rear  
 wall would not stand, its thickness  
 being but little more than  $\frac{1}{4}$  of the  
 height, while the earth slopes would  
 encroach over the vent. A revised de-  
 sign should be prepared. The repair  
 estimate. Rupees 470 may be sanctioned  
 as a Revenue charge.

Minutes

Sd/- J. P. C.

Offg. Chief Engineer

Sd/-

Colacoman  
 4th August 1875

To The Offg. Secy. to Government  
 Sd/-

Rs 2771

1376 : 00

9

D. J. J. J.

1376 : 00

1376 : 00

1376 : 00

1376 : 00

1376 : 00

P. W. 1875 Deph.  
No: 5213.

Lam

The Offg. Chief  
Engineer

Dated 11 Aug. 1875.  
Recd 11 Aug 1875.

G. H. No. 880.

Memo. on Estimates  
for the repair and  
improvement of tanks  
in the Chingleput Dt.

S. B. 2310. 3-8-75.

No. 2310 - S.B.O. 1875  
Proceeding of the Madras Government  
Under date the 9<sup>th</sup> August 1875  
Read the following:-

From the Offg. Chief Engineer } (S. B. 1880 of 11 Aug 75)

The following estimates  
for the repair and improve-  
ment of tanks in the  
Chingleput District  
are sanctioned.

|                              | Capital - | Revenue - |
|------------------------------|-----------|-----------|
|                              | Rupers -  | Rupers -  |
| Valimbarum Tanks -           | -         | 630       |
| Velangadu large do .         | 337       | 1454      |
| Seevady large do .           | -         | 1049      |
| do small do .                | -         | 260       |
| Srinikolathur do .           | -         | 1076      |
| Ladacaranj Balasamudram do . | -         | 1099      |
| Atturambarum do .            | -         | 470       |

2. The Superintending  
Engineer's attention should

27.5.80

has given to the town a  
valuable in the following  
review of these estimates.

May 6/8

34/4 Enclaves  
Charges for Inj. etc 14  
Supplies Charge 14  
Cont. & Accs. 14

SC Sepd - 30 - 8 - 75

105213  
Ct. of 1875 Madrid.

PUBLIC WORKS.

to

The Chief Insp.  
for Insp.

Dated

Issued

Recd.

Encl.

C. O. 9th July 75, No. 7318

Nos. 174-175

21-8-75

intended by the

and the

Refrigeration of  
hulls in the Chinglopt

It is - The Estimates amounting  
to Rs 6395 for the - and  
the Superintendence attention  
directed to the various  
contained in the review of  
these Estimates.