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# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*Revenue* DEPARTMENT

|          |                  |        |
|----------|------------------|--------|
| G.O. No. | <u>2748</u>      | Press. |
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| Dated    | <u>15-5-1877</u> | 197 .  |

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Read the following:—

No. 191—W.

No. 522.

Note by the Chief Engineer for Irrigation.

The following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted:—

| Tabuq.      | Village.                   | Work.                                       | Amount. |
|-------------|----------------------------|---------------------------------------------|---------|
|             |                            |                                             | RS.     |
| Conjeeveram | Olayur, S. No. 331         | Nettary tank                                | 385     |
|             | Do. do.                    | Kavettary tank                              | 630     |
|             | Do. do.                    | V. large do.                                | 725     |
|             | Do. do.                    | Virthacheranady and                         |         |
|             | Pitchavakum, S. No. 200    | V. spring channel                           | 595     |
| Chingleput  | Amoorthapullum, S. No. 232 | V. tank                                     | 330     |
|             | Peria Vippedu S. No. 231   | Peria Vippedu, Chinna                       |         |
|             |                            | Vippedu, and Kattak-<br>kalanai Hissa tank. | 1,335   |
| Total       |                            |                                             | 4,000   |

2. The financial and hydraulic details of the Irrigation Works concerned are exhibited in the following statement:—

I.—Financial Details.

I.—Financial Details.

| Name of Work.                                                      | Ayacut Area. | Assessment. | Average Revenue for five Years. | Highest Revenue for five Years. | During the previous four Years. | OUTLAY.                                      |          |                                                  | PER CENT. |
|--------------------------------------------------------------------|--------------|-------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------------------|----------|--------------------------------------------------|-----------|
|                                                                    |              |             |                                 |                                 |                                 | PROPOSED, ORDINARY AGRICULTURAL, IRRIGATION. |          |                                                  |           |
|                                                                    |              |             |                                 |                                 |                                 | Original Works.                              | Repairs. | Average Annual Proportion of Charges to Revenue. |           |
|                                                                    | ACRES.       | RS.         | RS.                             | RS.                             | RS.                             | ES.                                          | ES.      | ES.                                              | ES.       |
| Nettary tank ... ..                                                | 60           | 165         | 119                             | 154                             | Nil.                            | ...                                          | 385      | 64.7                                             |           |
| Kavettary tank ... ..                                              | 99           | 282         | 186                             | 212                             | ...                             | 95                                           | 365      | 49.4                                             |           |
| Olayur large tank ... ..                                           | 240          | 660         | 599                             | 634                             | ...                             | ...                                          | 622      | 20.7                                             |           |
| Virthacheranady and Pitchavakum spring channel ... ..              | 224          | 1,238       | 1,210                           | 1,465                           | 998                             | ...                                          | 595      | 26.3                                             |           |
| Amoorthapullum tank ... ..                                         | 40           | 98          | 93                              | 107                             | Nil.                            | 170                                          | 160      | 70.9                                             |           |
| Peria Vippedu, Chinna Vippedu, and Kattakkalanai Hissa tank ... .. | 244          | 572         | 409                             | 450                             | ...                             | 460                                          | 875      | 65.2                                             |           |
| Total ... ..                                                       | 907          | 3,015       | 2,616                           | 3,022                           | 998                             | 725                                          | 3,002    | 36.1                                             |           |

II.—Hydraulic Details.

| Name of Work.                                                | Catchment Basin Area. | MAXIMUM SUPPLY.       |                      | LENGTH OF ESCAPE. |            | AVERAGE HEIGHT OF BUND. |              | Surplus discharged at M.T.L. per Sec. | Tanks above. |
|--------------------------------------------------------------|-----------------------|-----------------------|----------------------|-------------------|------------|-------------------------|--------------|---------------------------------------|--------------|
|                                                              |                       | Catchment per Second. | Channels per Second. | Total.            | Effective. | Above F.T.L.            | Above M.T.L. |                                       |              |
|                                                              | SQ. M.                | C. FT.                | C. FT.               | FT.               | FT.        | FT.                     | FT.          | C. FT.                                | NO.          |
| Nettary tank                                                 | 0.5                   | 354                   | ..                   | E 60              | 60         | 1.5                     | 0.0          | 305.4                                 | Nil.         |
| Kavettary tank                                               | 1.5                   | 737                   | ..                   | E 114             | 114        | 3.0                     | 1.5          | 351.8                                 |              |
| Olayur large tank                                            | 4.0                   | 1,417                 | ..                   | E 83.5            | 83.5       | 4.0                     | 1.5          | 914.6                                 | 1            |
|                                                              |                       |                       |                      | K 42              | 31         | 3.5                     | 1.0          | 427.8                                 | 2            |
| Virthacheranady and Pitchavakam spring channel.              | ..                    | ..                    | ..                   | W 42              | 172        | 4.5                     | 2.0          | 1421.0                                | ..           |
| Amoorthapullum tank                                          | 0.8                   | 484                   | ..                   | E 130             | 130        | ..                      | ..           | ..                                    | ..           |
| Peria Vippedu, Chinna Vippedu, and Kattakkalanai Hissa tank. | 2.0                   | 893                   | ..                   | E 12              | 12         | 3.4                     | 1.4          | 94.6                                  | 4            |
|                                                              |                       |                       |                      | E 102             | 102        | 4.0                     | 2.0          | 484.6                                 | ..           |
|                                                              |                       |                       |                      | W 10              | 10         | 3.75                    | 1.25         | 152.8                                 | ..           |
|                                                              |                       |                       |                      | W 10              | 102        | 5.0                     | 2.5          | 1140.5                                | 5            |

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used:—K.—Kalingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Revenue Survey Number.

3. The following is a summary of the work proposed to be carried out in each case:—

**Nettary Tank.**—This tank is the first of a group of three tanks. The bund requires to be raised and repaired; the irrigation sluice is in a very ruined condition and quite beyond repair; it is therefore proposed to reconstruct it. The tank has two openings acting as escapes, one at the east end of the bund and the other at the west end; it is proposed to close the latter and to extend the former and to plant it with kuskus.

The estimate provides for raising and repairing the bund, extending the east escape, and planting kuskus and turfing, and for constructing an irrigation sluice.

**Kavettary Tank.**—The bund of this tank is very much eroded and otherwise damaged: it was breached in two places in October 1874. The bund needs raising and repairing, and will be protected by kuskus planting above the revetment, which is in good order.

The tank has an irrigation sluice, which is also in good order, but it has no regular surplus work, and the existing means of escape are through a breach in the bund; it is therefore proposed to construct a dry-stone escape. This tank receives the surplus of the Nettary tank.

The estimate provides for raising and repairing the bund, planting kuskus and turfing, and for constructing a dry-stone escape. It will probably be a waste of money to plant kuskus above the revetment. The item for turfing has been struck out. It is of doubtful utility, and amounts to 4th of the average revenue.

**Olayur Large Tank.**—The bund of this tank is considerably eroded, and the revetment to a certain extent requires to be repacked up to F.T.L., beyond which point the bund will be protected by a belt of kuskus grass up to M.W.L.

The front slope of the tank bund will be turfed.

The tank is provided with two irrigation sluices; the head of one needs reconstruction and the other sluice requires trifling repairs. It is proposed to convert the existing kalingulah into a weir by removing the dam stones and raising the body wall to F.T.L., which is at present 1.5 feet below F.T.L.; in addition to this it is proposed to construct an escape 130 feet in length and to plant it with grass. The position of the escape will be at the east end of the bund.

The estimate provides for raising and repairing the bund, repacking the revetment, planting kuskus, repairing two irrigation sluices, converting the kalingulah into weir, and for forming an escape planted with grass. No kuskus should be planted above F.T.L., and the item for turfing has been struck out.

**Virthacheranady River and Pitchavakam Spring Channel.**—The bed of the channel was silted up by the Virthacheranady, or old course of the Palar, breaching into it. The villagers have cleared the channel of silt, but to prevent a recurrence of the damage it is necessary to close the breaches and to repair the river bank and to protect it with planted grass. The head sluice of the spring channel is an ancient structure and is very much dilapidated; it is therefore proposed to reconstruct it and to raise it above flood level.

The estimate provides for closing the breaches and repairing the river bank and for improving the head sluice of the channel.

**Amoorthapullum Tank.**—The bund of this tank is much eroded and the tank is not provided with an irrigation sluice which it is much in need of; it is also without a proper surplus work, and the surplus has to be discharged through a breach in the bund at the south end. It is therefore proposed to form a grass-planted escape in addition to the existing breach; also to construct a masonry irrigation sluice and to raise and repair the bund.

The estimate provides for these repairs and additions.

**Peria Vippedu, Chinna Vippedu, and Kattakkalanai Hissa Tank.**—This tank was breached in 1874, and the breach was banked up as a work of emergency. The bund requires to be raised and repaired. The tank had three irrigation sluices, but one of them has been destroyed, it is therefore proposed to reconstruct this sluice and to repair the other two. Owing to the length of the existing weir being insufficient, it is proposed to construct a rough-stone escape.

The estimate provides for raising and repairing the bund, repairing two irrigation sluices and a weir, and for reconstructing an irrigation sluice and a rough-stone escape.

More than one plug-hole may with advantage be allowed in the rebuilt sluice. On the plan the whole area of irrigation of the tank is put down as under this sluice which is a mistake. Sketches have been supplied showing the connection of the tanks estimated for with each other, but what is required in addition is a summary of the Ayacut area and revenue of, and outlay on, each group.

The wings of the surplus escapes should be of the form shown on the plan of the Peria Vippedu tank. The length of the escape of this tank to discharge the surplus from the catchment area given as 2 square miles need not exceed 60 feet in addition

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23rd April 1877. No. 1,373.

to the weir, but as the ayacut is 244 acres, of which the greater portion appears to be cultivated, it is probable that a larger area drains into it.

The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several heads of account involved:—

| Name of Tank.                                               | Items of Estimate.                                                      | FUND, ORDINARY AGRICULTURAL IRRIGATION. |          | Total for each Tank, &c. |
|-------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------|----------|--------------------------|
|                                                             |                                                                         | Original Works.                         | Repairs. |                          |
|                                                             |                                                                         | RS.                                     | RS.      | RS.                      |
| Nettary Tank                                                | Raising and repairing the bund and extending escape                     | ...                                     | 175      | 385                      |
|                                                             | Reconstructing an irrigation sluice                                     | ...                                     | 210      |                          |
| Kavettary Tank                                              | Raising and repairing the bund                                          | ...                                     | 365      | 460                      |
|                                                             | Constructing a dry-stone escape                                         | 95                                      | ...      |                          |
| Olayur Large Tank.                                          | Raising and repairing the bund and forming an escape planted with grass | ...                                     | 360      | 622                      |
|                                                             | Converting kalingulah into weir                                         | ...                                     | 81       |                          |
|                                                             | Repairing two irrigation sluices                                        | ...                                     | 181      |                          |
| Virthacheranady and Pitchavakum spring channel.             | Closing breaches and repairing the river bank                           | ...                                     | 465      | 595                      |
|                                                             | Improving head sluice in channel                                        | ...                                     | 130      |                          |
| Amoorthapullum Tank.                                        | Raising and repairing the bund and forming an escape planted with grass | ...                                     | 160      | 330                      |
|                                                             | Constructing an irrigation sluice                                       | 170                                     | ...      |                          |
| Peria Vippedu, Chinna Vippedu, and Kattakkalanai Hisa Tank. | Raising and repairing bund, repairing two sluices and a weir            | ...                                     | 875      | 1,335                    |
|                                                             | Reconstructing an irrigation sluice                                     | 355                                     | ...      |                          |
|                                                             | Constructing a rough-stone escape                                       | 105                                     | ...      |                          |

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

FORT ST. GEORGE,  
14th April 1877.

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

No. 523.

ORDER THEREON, 23rd April 1877, No. 1,373.

|                     |
|---------------------|
| IRRIGATION, No. 50. |
| Account.            |

No. 191—W, dated 14th April 1877.

THE following estimates for Irrigation Works in the No. 3 or Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

Proceedings of the Madras Government, Public Works Department,  
23rd April 1877. No. 1,373.

| Irrigation.                                            |                                     | Fund, Ordinary Agricultural, Irrigation. | Amount. | Irrigation Register No. |
|--------------------------------------------------------|-------------------------------------|------------------------------------------|---------|-------------------------|
| Name of Tank.                                          | Provision of Estimate.              |                                          | RS.     |                         |
| Nettary Tank                                           | Repairing bund and extending escape | Repairs ...                              | 175     | 1 } 24-I.               |
|                                                        | Reconstructing sluice               | Do. ...                                  | 210     | 2 }                     |
| Kavettary Tank.                                        | Repairing bund                      | Do. ...                                  | 365     | 1 } 25-I.               |
|                                                        | Escape                              | Original Works.                          | 95      | 2 }                     |
| Olayur Large Tank.                                     | Repairing bund and forming escape   | Repairs ...                              | 360     | 1 }                     |
|                                                        | Converting kalingulah into weir     | Do. ...                                  | 81      | 2 } 26-I.               |
|                                                        | Repairing two sluices               | Do. ...                                  | 181     | 3 }                     |
| Virthacheranady and Pitchavakum spring channel.        | Repairing river bank                | Do. ...                                  | 465     | 1 } 27-I.               |
|                                                        | Improving head sluice               | Do. ...                                  | 130     | 2 }                     |
| Amoorthapullum Tank.                                   | Repairing bund and forming escape   | Do. ...                                  | 160     | 1 } 28-I.               |
|                                                        | Irrigation sluice                   | Original Works.                          | 170     | 2 }                     |
| Peria Vippedu, Chinna Vippedu, and Kattakkalanai Tank. | Repairing bund, two sluices, weir   | Repairs ...                              | 875     | 1 }                     |
|                                                        | Irrigation sluice                   | Original Works.                          | 355     | 2 } 29-I.               |
|                                                        | Escape                              | Do. ...                                  | 105     | 3 }                     |

2. These sanctions are registered as shown above.  
(True Extract.)

Lieut.-Col., R.E.,  
Joint Secy. to Govt., P.W.D.,  
Irrigation Branch.

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

Exd. T. D. Ryan.  
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No 2457  
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PUBLIC WORKS.

To  
The SUPERINTENDING ENGINEER,  
CHINGLEPUT.  
do, do, do.

Dated April 23rd.

Issued

Recd. 14<sup>th</sup> May 1877 Encl.

G. O., 23rd April 1877, No. 1,373.

APRIL

Nos. 522-523.

No 2748.  
Comm: to the  
Board of Revenue  
G.W.  
15<sup>th</sup> May 1877.

Tanks, Chingleput District. The estimated  
for repairs, &c., to certain —, sanctioned.

1877-78 Revenue 16-5-77