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# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*Revenue* DEPARTMENT

|          |          |        |
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*Proceedings of the Madras Government, Public Works Department,*  
16th March 1877. No. 900.

Read the following :—

No. 135—W.

No. 405. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Poloor Range are forwarded by the District Engineer, North Arcot, with his letter No. 3,044, dated 6th January 1877. marginally noted :—

| Taluq.          | Village.          | Work.                  | Amount.   |
|-----------------|-------------------|------------------------|-----------|
| Wandewash .. .. | Elooppay .. ..    | V. Tank .. ..          | Rs. 1,485 |
| Do. .. ..       | Sholaveram .. ..  | V. Tank .. ..          | 965       |
| Do. .. ..       | Cadooganoor .. .. | V. Chittary Tank .. .. | 860       |
| Do. .. ..       | Vellaripett .. .. | V. Tank .. ..          | 465       |
| Total ..        |                   |                        | 3,775     |

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

*I.—Financial Details.*

| Name of Work.                   | Ayant Area. | Assessment. | Average Revenue for 5 years. | Highest Revenue for 5 years. | OUTLAY.                      |                                            |          |                                                  |
|---------------------------------|-------------|-------------|------------------------------|------------------------------|------------------------------|--------------------------------------------|----------|--------------------------------------------------|
|                                 |             |             |                              |                              | During the previous 4 years. | PROPOSED ORDINARY AGRICULTURAL IRRIGATION. |          |                                                  |
|                                 |             |             |                              |                              |                              | Original Works.                            | Repairs. | Average annual proportion of Charges to Revenue. |
|                                 | ACRES.      | RS.         | RS.                          | RS.                          | RS.                          | RS.                                        | RS.      | PER CENT. RS.                                    |
| Elooppay Tank .. ..             | 50          | 352         | 431                          | Not stated.                  | Nil                          | 310                                        | 1,175    | 68.9                                             |
| Sholaveram Tank .. ..           | 74          | 354         | 357                          | ..                           | ..                           | 185                                        | 780      | 54.0                                             |
| Cadooganoor Chittary Tank .. .. | 76          | 354         | 443                          | ..                           | ..                           | 196                                        | 670      | 38.8                                             |
| Vellaripett Tank .. ..          | 39          | 178         | 189                          | ..                           | ..                           | 145                                        | 320      | 49.2                                             |
| Total ..                        | 239         | 1,238       | 1,420                        | ..                           | ..                           | 830                                        | 2,945    | 53.1                                             |

*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 Second. | 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.          |
| Elooppay Tank .. ..        | 1.0                    | 562                   | 75                   | E 15              | 15         | 2.12                    | 0.12         | 117.5                                    | ND           |
|                            |                        |                       |                      | W 66              | 66         | 4.0                     | 2.0          | 627.1                                    |              |
| Sholaveram Tank .. ..      | 1.0                    | 562                   | ..                   | E 26              | 26         | 0.78                    | 0.0          | 203.7                                    |              |
|                            |                        |                       |                      | W 60              | 60         | 4.0                     | 2.0          | 470.2                                    |              |
| Cadooganoor Chittary Tank. | 0.25                   | 226                   | 58                   | E 25              | 25         | 1.51                    | 0.0          | 160.3                                    |              |
|                            |                        |                       |                      | W 36              | 36         | 3.5                     | 1.75         | 280.0                                    |              |
|                            |                        |                       |                      | E 40              | 40         | 2.5                     | 0.5          | 313.5                                    |              |
| Vellaripett Tank .. ..     | 1.5                    | 737                   | ..                   | E 80              | 80         | 4.5                     | 2.5          | 627.0                                    |              |

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 :—C.—Calingulah with dam stones. W.—Weir with overfall. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village.

3. The following is a summary of the work proposed to be carried out in each case.  
**ELOOPPAY TANK.**—The bund of this tank is low and weak throughout; its revetment also is in bad condition. It is proposed to raise and repair the bund and to repack the revetment. The only sluice which this tank possesses is in a ruined state and needs to be reconstructed. The existing surplus escape which is a short loose stone pavement is incapable of effectively discharging the surplus; it is therefore proposed to construct a masonry weir 66 feet long.

This tank receives a supply of about 75 cubic feet per second from the Tetty branch of the Cheyaur ancient channel in addition to its local drainage which is stated to be from only 1 square mile.

The estimate provides for raising and repairing the bund, repacking the revetment, turfing and planting grass, reconstructing the irrigation sluice, and for constructing a masonry weir.

**SHOLAYERAM TANK.**—The bund of this tank was seriously injured in the cyclone of 1872, and has not since been repaired. Portions of it are so low that the ryots have been obliged to throw up turf banks, &c. The tank is provided with an irrigation sluice, which is in need of slight repair. The existing natural escape is insufficient to discharge the surplus; it is therefore proposed to construct a flush crested masonry weir 60 feet long.

The estimate provides for raising and repairing the bund, turfing and grass planting it, and for repairing the irrigation sluice, and for constructing a masonry weir with a flush crest.

**CADOOGANOOR TANK.**—This tank receives its supply from the Cheyaur ancient channel, and its surplus is discharged into the river.

The bund of this tank was much damaged by storms in 1872 and 1874, and the revetment also is out of order; the bund requires to be raised and repaired and the revetment repacked.

The tank is provided with two irrigation sluices, one of which is in ruins and the other is in want of repair.

The tank has no proper surplus work; the surplus is discharged by means of a cut in the bund.

The estimate provides for raising and repairing the bund, repacking the revetment, turfing and planting grass, rebuilding one of the irrigation sluices, and repairing the other, and for constructing a flush escape.

**VELLARIPETT TANK.**—The bund of this tank is low and weak throughout, and needs to be raised and repaired. The surplus of this tank has no means of escape, except a cut at the end of the bund.

The estimate provides for raising and repairing and turfing the bund and for constructing a dry stone escape.

Of the plans and estimates for the *Elooppay tank* those for—

- (1.)—Repairs of the bund,
- (2.)—Construction of weir

are recommended for sanction with the following alterations:—

Turfing and grass sowing of bund, amounting to Rupees 209, are struck out as not likely to be of much use especially this season on the hard soil of which it appears the bank is to be composed. There is no provision in the plan or estimate for weir for protecting the skirt of the apron. The surface soil at the site for the work is said to be "hard" with sub-soil 3 feet down of "light gravel." If the surface is not harder than that gravel, a retaining wall built up continuous with the foundation of

the rear wing returns should be carried along the whole length of the apron. The plan and estimate for the irrigation sluice will be returned to the District Engineer for revision with separate instructions.

The plan and estimate for the *Sholayeram tank* are recommended for sanction with the following alteration:—

(1.)—The turfing and grass sowing of bund, amounting to Rupees 162, are struck out for reasons given in remarks on *Elooppay tank*.

(2.)—The bodywall of the escape which is entirely sunk in the ground need not be battered, and a uniform thickness of 1 foot 6 inches will do for it. A similar wall should be put along the skirt of the apron. The united quantities of these two walls will but little exceed that of the one estimated for, and the excess cost for excavating foundation of retaining wall will be covered by saving of strip of apron, place of which will be taken by the top of the retaining wall.

Of the plans and estimates for the "*Cadooganoor tank*" those for reconstruction of the distributing sluice, which appears to be an entirely new structure, will be returned to the District Engineer for revision with separate instructions, those for (1) repair of bund, (2) repair of high level sluice, and (3) construction of flush escape are recommended for sanction with the following alterations:—

(1.)—The turfing and grass sowing, amounting to Rupees 91, are struck out for the reasons given above.

(2.)—The remarks about the design for the escape for the *Sholayeram tank* are applicable to the design for this one. The length of this escape should be 42 feet instead of 36 feet, and Rupees 15 are added to the estimate for the extra work required.

The estimates for the *Vellaripett tank* are recommended for sanction with the following alterations:—

(1.)—Turfing (Rupees 136) is struck out for reasons given above.

(2.)—The length of the escape had better be 90 feet instead of 80 feet, and Rupees 20 are for this added to the estimate.

The attention of the District Engineer is requested to the very high rates for the earthwork in all these estimates, none being less than 4 Annas, and varying between that and 4 Annas and 8 Pice a cubic yard.

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. |                          |
| Elooppay Tank             | Raising and repairing the bund                                       | Rs. 310                                  | Rs. 741  | Rs. 1,051                |
|                           | Constructing a masonry weir                                          | .. ..                                    | .. ..    | .. ..                    |
| Sholayeram Tank           | Raising and repairing the bund; also repairing the irrigation sluice | Rs. 185                                  | Rs. 618  | Rs. 803                  |
|                           | Constructing a masonry flush crested weir                            | .. ..                                    | .. ..    | .. ..                    |
| Cadooganoor Chittary Tank | Raising and repairing the bund; also repairing an irrigation sluice  | Rs. 205                                  | Rs. 372  | Rs. 577                  |
|                           | Constructing a masonry weir                                          | .. ..                                    | .. ..    | .. ..                    |
| Vellaripett Tank          | Raising and repairing the bund                                       | Rs. 165                                  | Rs. 184  | Rs. 349                  |
|                           | Constructing a dry stone escape                                      | .. ..                                    | .. ..    | .. ..                    |

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

Fort St. George,  
6th March 1877.  
To the Secretary to Government, Public Works Department.

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Proceedings of the Madras Government, Public Works Department,  
16th March 1877. No. 900.

No. 406. ORDER THEREON, 16th March 1877, No. 900.

IRRIGATION, No. 33.  
Account.

No. 135-W, dated 6th March 1877.

THE following estimates for Irrigation Works in the Poloor Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned :—

| Name of Work. *                                            | Item of Estimate.               | Fund, Ordinary Agri-<br>cultural, Irrigation. | Amount. | Irrigation<br>Registry No. |
|------------------------------------------------------------|---------------------------------|-----------------------------------------------|---------|----------------------------|
| <i>Cheyaur Anicut System.</i>                              |                                 |                                               | Rs.     |                            |
| Elooppay Tank ..                                           | Repairing bund ..               | Repairs ..                                    | 741     | 1 } 342—1.                 |
|                                                            | Weir ..                         | Original Works ..                             | 310     |                            |
| <i>Cheyaur Anicut System.</i><br>Jadooganoor Chittary Tank | Repairing bund and<br>sluice .. | Repairs ..                                    | 272     | 1 } 343—1.                 |
|                                                            | Weir ..                         | Original Works ..                             | 205     |                            |
| Sholaveram Tank                                            | Repairing bund and<br>sluice .. | Repairs ..                                    | 618     | 1 } 344—1.                 |
|                                                            | Flush crested weir ..           | Original Works ..                             | 185     |                            |
| Vellaripett Tank                                           | Repairing bund ..               | Repairs ..                                    | 320     | 1 } 345—1.                 |
|                                                            | Dry stone escape ..             | Original Works ..                             | 145     |                            |

2. These sanctions are registered as shown above. The first two tanks belong to the Cheyaur anicut system.

(True Extract.)

*W. S. S. S.*

Lieut-Col., R.E.,

Secretary to Government, P.W.D.

- To the District Engineer, North Arcot.
- " Collector of ..
- " Chief Engineer for Irrigation.
- " Examiner of Public Works Accounts.
- " Revenue Department. ✓

Exd. E. C. Shunker.

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MARCH

No. 405-406.

No 1984

Comm: to the  
Board of Revenue

9 April 1877

Tanks, North Arcot District. — Estimated  
for repair of certain —, sanctioned.

8. To the H. of Revenue & Co. 10-4-77