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# MADRAS RECORD OFFICE.

Government of Madras.

*Public Works* DEPARTMENT.

|          |       |       |       |
|----------|-------|-------|-------|
| G.O. No. | 1267  | (2)   | Press |
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| Dated    | 21-4- | 1877. |       |

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
21st April 1877. No. 1,367.*

Read the following :—

No. 195.

No. 502. *Note by the Chief Engineer for Irrigation.*

No. 199, dated 15th March 1877.

The following estimates from the Tinnevely Range are forwarded by the Officiating District Engineer, Tinnevely, with his letter marginally noted :—

| Taluq.             | Village.        | Work.                          | Amount. |
|--------------------|-----------------|--------------------------------|---------|
| Ottapedarum ... .. | Ottapedarum ... | Sangararajapuramkulam Tank ... | Rs. 260 |
|                    |                 | Vanyankulam Tank ... ..        | 94      |
|                    |                 | Peakulam Tank ... ..           | 88      |
|                    |                 | Total ...                      | 442     |

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

*I.—Financial Details.*

| Name of Work.                 | Ayacut Area. | Assessment. | Average Revenue for 5 years. | Highest Revenue for 5 years. | OUTLAY.                           |                                               |          |                                                          |
|-------------------------------|--------------|-------------|------------------------------|------------------------------|-----------------------------------|-----------------------------------------------|----------|----------------------------------------------------------|
|                               |              |             |                              |                              | During the previ-<br>ous 4 years. | PROPOSED ORDINARY<br>AGRICULTURAL IRRIGATION. |          |                                                          |
|                               |              |             |                              |                              |                                   | Original Works.                               | Repairs. | Average annual pro-<br>portion of charges to<br>Revenue. |
|                               | ACRES.       | RS.         | RS.                          | RS.                          | RS.                               | RS.                                           | RS.      | per cent.                                                |
| Sangararajapuramkulam Tank .. | 24           | 134         | 134                          | 134                          | ...                               | ...                                           | 260      | 38.8                                                     |
| Vanyankulam Tank ... ..       | 37           | 49          | 42                           | 49                           | ...                               | ...                                           | 94       | 44.7                                                     |
| Peakulam Tank... ..           | 14           | 76          | 16                           | 32                           | ...                               | ...                                           | 88       | 110.0                                                    |
| Total ...                     | 75           | 259         | 192                          | 215                          | ...                               | ...                                           | 442      | 46.0                                                     |

*II.—Hydraulic Details.*

| Name of Work.               | Catchment Basin Area. | MAXIMUM SUPPLY.          |                         | LENGTH OF ESCAPE.             |            | AVERAGE HEIGHT OF BUND. |              | Surplus discharged at<br>M. T. L. per Second. | Tanks above. |   |
|-----------------------------|-----------------------|--------------------------|-------------------------|-------------------------------|------------|-------------------------|--------------|-----------------------------------------------|--------------|---|
|                             |                       | Catchment per<br>Second. | Channels per<br>Second. | Total.                        | Effective. | Above F.T.L.            | Above M.T.L. |                                               |              |   |
|                             | SQ. M.                | C. FT.                   | C. FT.                  | Over Natural<br>Ground Ample. | Do.        | FT.                     | FT.          | All.<br>"<br>"<br>"<br>"                      | N            |   |
| Sangararajapuramkulam Tank. | 1.5                   | 337                      | ..                      |                               |            | 2.07                    | 0.57         |                                               |              | 2 |
| Vanyankulam Tank .. ..      | 2.0                   | 422                      | ..                      |                               |            | 4.07                    | 2.57         |                                               |              | 2 |
| Peakulam Tank .. ..         | 1.0                   | 250                      | ..                      |                               |            | 2.71                    | 1.21         |                                               |              | 2 |
|                             |                       |                          |                         |                               |            | 3.98                    | 2.48         |                                               |              | 1 |
|                             |                       |                          |                         | 2.67                          | 1.17       |                         |              |                                               |              |   |
|                             |                       |                          |                         | 4.0                           | 2.5        |                         |              |                                               |              |   |

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimension in small type. The following abbreviations are used :—C.—Calingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank.

3. The following is a summary of the work proposed to be carried out.

The estimates for the above-mentioned tanks provide for raising and repairing the bunds which are low and weak, and for repairing the irrigation sluices.

The tanks surplus over gravelly ground at the ends of their bunds and these means of disposing of flood waters are stated to be sufficient.

One tank of the group to which the Sangararajapuram tank belongs, and lying above that tank, is stated to require 72 feet additional length of weir. The District Engineer should report what steps have been taken to carry out this work, which is necessary for the safety not only of the tank with which it is immediately connected, but also of tanks below it.

The estimates are recommended for sanction.

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. |                          |
| Sangararajapuramkulam Tank ... | Raising and repairing the bund, and repairing the irrigation sluice. | RS. ...                                  | RS. 260  | RS. 260                  |
| Vanyankulam Tank ...           | Raising and repairing the bund, and repairing the irrigation sluice. | ...                                      | 94       | 94                       |
| Peakulam Tank ...              | Raising and repairing the bund, and repairing the irrigation sluice. | ...                                      | 88       | 88                       |

(Signed) G. T. WALCH,

Ag. Dy. Chief Engr. for Irrigation,  
for Chief Engineer for Irrigation.

FORT ST. GEORGE,  
18th April 1877.

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

No. 503.

ORDER THEREON, 21st April 1877, No. 1,367.

IRRIGATION, No. 48.

Account.

THE following estimates for Irrigation works in the Tinnevely Range, Tinnevely District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned:—

Irrigation.

| Name of Tank.                 | Provision of Estimate.        | Fund, Ordinary Agricultural, Irrigation. | Amount. | Irrigation Register No. |
|-------------------------------|-------------------------------|------------------------------------------|---------|-------------------------|
| Sangararajapuramkulam Tank... | Repairing bund and sluice ... | Repairs ...                              | RS. 260 | 21 I                    |
| Vanyankulam Tank ...          | Do. do. ...                   | Do. ...                                  | 94      | 22 I                    |
| Peakulam Tank ...             | Do. do. ...                   | Do. ...                                  | 88      | 23 I                    |

2. These sanctions are registered as shown above.

(True Extract.)

(Signed) JOHN MULLINS, Lt.-Col., R.E.,

Joint Secy. to Govt., P.W.D.,

Irrigation Branch.

To the District Engineer, Tinnevely.

" Collector of Tinnevely.

" Chief Engineer for Irrigation.

" Examiner of Public Works Accounts.

" Revenue Department.

Exd. E. C. Shunker.

Spare Copies

195.

Fort St. George 18<sup>th</sup> April 1877.

Note by the Chief Engineer for Irrigation.

No. 199

Dated 15 March 1877.

Enclosures 10.

The following Estimates from the *Sinnerly* Range are forwardedby the *off District* Engineer *Sinnerly* with his letter marginally noted:—

| Taluq. | Village. | Work. | Rs. | Amount. |
|--------|----------|-------|-----|---------|
|--------|----------|-------|-----|---------|

*Ottapedarum* - *Ottapedarum* - *Sangararaja* } - 260  
*puramkulam Tank* }  
 — Do — — *Vanyankulam Tank* - 94  
 — Do — — *Peakulam Tank* - 88

Total Rs. 442.

2. The Financial and Hydraulic details of the Irrigation works concerned are exhibited in the following statement:—

I.—Financial Details.

| Name of Work            | Ayacut Area. | Assessment. | Average Revenue for 5 years. | Highest Revenue for 5 years. | During the previous 4 years. | OUTLAY.             |                     |                                                  |
|-------------------------|--------------|-------------|------------------------------|------------------------------|------------------------------|---------------------|---------------------|--------------------------------------------------|
|                         |              |             |                              |                              |                              | Proposed - 1877-78. | Proposed - 1878-79. | Average annual proportion of Charges of Revenue. |
|                         | Acres.       | Rs.         | Rs.                          | Rs.                          | Rs.                          | Rs.                 | Rs.                 | Rs.                                              |
| <i>Sangararajapuram</i> | 324          | 134         | 134                          | 134                          | "                            | "                   | 260                 | 38.8                                             |
| <i>Kulam Tank</i>       | 37           | 49          | 42                           | 49                           | "                            | "                   | 94                  | 44.7                                             |
| <i>Vanyankulam Tank</i> | 14           | 76          | 16                           | 32                           | "                            | "                   | 88                  | 110.0                                            |
| Total                   | 75           | 259         | 192                          | 215                          | "                            | "                   | 442                 | 46.0                                             |

## II.—Hydraulic Details.

| Name of Work.                      | Catchment 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.                                     |              |
| Sangararajapuram<br>Kulam Tank - - | 15              | 337                   | .                    |                   |            | Nil                     | 207            | 157                                     | 2            |
| Vamankulam Tank                    | 20              | 422                   | .                    |                   |            | Nil                     | 27             | 121                                     | 27           |
| Peakulam Tank                      | 10              | 250                   | .                    |                   |            | Nil                     | 26             | 117                                     | 3            |

Note.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. The following abbreviations are used:—K.—Kalingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank.

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

The Estimates for the above-mentioned tanks provide for raising and repairing the bunds which are low and weak and for repairing the irrigation sluices.

The tanks surplus over gravelly ground at the ends of their bunds and these means of disposing of flood waters are stated to be sufficient.

Note in Print.—Red figures in this note are to be printed in Clarendon type & note in para 2 altered to suit.

One tank of the group to which the Sangararajapuram tank belongs, and lying above that tank, is stated to require 72 feet additional length of weir. The District Engineer should report what steps have been taken to carry out this work which is necessary for the safety not only of the tank with which it is immediately connected but also of tanks below it.

The Estimates are recommended for sanction.

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                                                  | Sum. out of Agricultural Irrigation |        | Total for each tank |
|-----------------------------|--------------------------------------------------------------------|-------------------------------------|--------|---------------------|
|                             |                                                                    | orig. works                         | Repair |                     |
| Sangararajapuram Tank - - - | Raising & repairing the bund & repairing the irrigation sluice - - | "                                   | 260    | 260                 |
| Vamankulam Tank -           | Raising & repairing the bund & repairing the irrigation sluice - - | "                                   | 94     | 94                  |

|                  |                         |    |    |  |
|------------------|-------------------------|----|----|--|
| Peakulom<br>Tank | Raising & repairing the |    |    |  |
|                  | fund & repairing the    | 88 | 88 |  |
|                  | Irrigation sluice       |    |    |  |

*C. S. Swales*

*Ag. Dy. Chief Engineer for Irrig.  
for Chief Engineer for Irrig.*

*The Secretary to Govt*

*P. W. D. Irrigation Branch*

*C. S. Swales*

*Sub*

From  
The Chief Engineer for Irrigation,  
No. 100A

To  
The Secretary to Government,  
P. W. D.

No. 195-W.

Dated 18<sup>th</sup> } April } 1877.  
Despd. 19<sup>th</sup> }  
Received

ENCLOSURES. 10

Subject.

Tank Repairs. - Sinnivelly  
District. - Note forwarding for  
sanction, estimate for Rs. 442 for  
certain —

L. O. 21<sup>st</sup> April/77 D.O. No. 502

F. I. Form No. 3.

No 1367 of 21 April 77

The following Estimates for Irrigation  
Works in the Sinnivelly Range,  
Sinnivelly District, forwarded by  
the Chief Engineer for Irrigation with his  
Memorandum marginally noted are sanctioned.

No. 195-W of 18 April 1877.

Irrigation.

| Name of Tank.                   | Provision of Estimate.        | Fund.<br><i>Provision for work<br/>Irrigation</i> | Amount | Irrigation<br>Register<br>No. |
|---------------------------------|-------------------------------|---------------------------------------------------|--------|-------------------------------|
| Singaraia<br>pudamkulam<br>Tank | Repairing hand<br>and sluice. | Repairs                                           | 260    | 21. I                         |
| Vanyankulam<br>Tank.            | Repairing hand<br>and sluice. | Repairs                                           | 94     | 22. I                         |
| Peakulam<br>Tank.               | Repairing hand<br>and sluice. | Repairs                                           | 88     | 23. I                         |

2. These sanctions are  
registered as shown  
above,  
for  
M. 20/4

D. L. Sinnivelly ✓  
Collector.  
L. O. for S. No. 10. 2  
P. W. D. ✓

Recd. Dept. ✓ Dated - 11-5-77

Act 20/4/77

*Group*

Gobt. of 1877 Madras.  
PUBLIC WORKS.

To *Mr D. E. Limbally*

Dated

*23-7*

Issued

Recd.

Encl.

G. O. *21<sup>st</sup> April* 1877, No. 1367

Nos. 572 - 573

*Sanks. Limbally & Co*

The estimates amounting  
to Rs 442 for repairing  
the bunds and sluices  
of certain —, sanctioned

*But no Reg.*