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(2) Date of repair 5/8  
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# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*P.W.D.* DEPARTMENT

|          |            |       |        |
|----------|------------|-------|--------|
| G.O. No. | 2118       | 609-9 | Press. |
| B.P. No. |            |       | Mis.   |
| Dated    | 2. 8. 1878 |       | 197    |

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Archives I-5,806-24-2-78.

*2. 8.*

GOVERNMENT OF MADRAS.  
PUBLIC WORKS DEPARTMENT.

2nd August 1878, No. 609 I.

Irrigation-  
Account.

Read the following paper:—

No. 5. From Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer, for Irrigation, to the Joint Secretary to Government, Public Works Department, Irrigation Branch, dated Ootacamund, 18th July 1878, No. 204 I.

I HAVE the honor to submit the following report on the expenditure incurred on the works of the Madras Irrigation and Canal Company during the quarter ended 31st March 1878.

2. The total expenditure for the period under review amounted to Rupees 11,239-11-7, as compared with Rupees 617-13-5 in the previous quarter.

3. The following is a statement in tabular form of the items on which the above outlay was made:—

| Number of Section or Name of Work. | Amount. |    |    | Nature of Expenditure.                                                                                                |
|------------------------------------|---------|----|----|-----------------------------------------------------------------------------------------------------------------------|
|                                    | RS.     | A. | P. |                                                                                                                       |
| Main Canal, 1st Section ...        | 1,319   | 2  | 9  | Alteration of calingulahs Nos. 1, 2, and 3 and 9. Bridges at Gopala, Singaram, Nidjud, Moongal-pauck, and Masamuseet. |
| Do. 2nd do. ...                    | 1,142   | 4  | 7  | Alteration of calingulah No. 12 and new calingulah at Puded.                                                          |
| Do. 3rd do. ...                    | 1,126   | 10 | 7  | Alteration of calingulahs Nos. 18, 19, and 20.                                                                        |
| Do. 4th do. ...                    | 1,128   | 11 | 1  | Altering 3rd-class bridge to 2nd-class, Bellavaram; alteration of calingulahs Nos. 2, 3, and 4.                       |
| Do. 6th do. ...                    | 85      | 5  | 0  |                                                                                                                       |
| Do. 7th do. ...                    | 1,302   | 7  | 10 | Alteration of calingulahs Nos. 6, 6 A, 9, and 9 A.                                                                    |
| Do. 10th do. ...                   | 11      | 8  | 4  |                                                                                                                       |
| Distribution Works, 6th Section.   | 5,960   | 10 | 2  |                                                                                                                       |
| Navigation ...                     | 60      | 0  | 0  | Extra works, 6th Section.                                                                                             |
| Total ...                          | 11,239  | 11 | 7  |                                                                                                                       |

4. The following statement shows the expenditure on all works from the commencement to the close of the quarter compared with sanctioned estimates.

5. It will be remarked that the expenditure of the quarter is shown to have been Rupees 11,239-11-7, and the total outlay up to 31st March 1878 Rupees 111,74,507-15-10.

6. The particulars regarding percentage of permanent establishment and general management have not been furnished owing to the credits to construction during the quarter not having yet been worked out.

| Works.                                                           | Amount of Estimate. | Expenditure up to 31st Decem-ber 1877. | Cost during the quarter ended 31st March 1878. | Total Expendi-ture. | Add Amount transferred to this from other Works. | Unsettled from this to other Works. | Total Net Expenditure. | Available.      | Assessed.       | Remarks.   |
|------------------------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|---------------------|--------------------------------------------------|-------------------------------------|------------------------|-----------------|-----------------|------------|
|                                                                  | Rs. A. P.           | Rs. A. P.                              | Rs. A. P.                                      | Rs. A. P.           | Rs. A. P.                                        | Rs. A. P.                           | Rs. A. P.              | Rs. A. P.       | Rs. A. P.       |            |
| <b>Main Canal.</b>                                               |                     |                                        |                                                |                     |                                                  |                                     |                        |                 |                 |            |
| Amount and head works at Kannak.                                 | 3,03,050 0 0        | 61,332 15 2                            | 1,13,731 13 0                                  | 1,33,2 0            | 11,33,050 13 0                                   | .....                               | 11,33,050 13 0         | 9,733 13 11     | 9,733 13 11     | Completed. |
| Do. do. at Sontkashala.                                          | 4,89,352 0 0        | 2,75,361 15 4                          | 2,41,458 11 4                                  | 1,143 7             | 20,14,703 11 11                                  | .....                               | 20,14,703 11 11        | 8,551 8 0       | 8,551 8 0       | Completed. |
| Do. do. at Sontkashala.                                          | 1,71,757 1 7        | 73,635 13 0                            | .....                                          | 1,138 11            | 4,51,474 11 7                                    | .....                               | 4,51,474 11 7          | 5,681 8 3       | 5,681 8 3       | Completed. |
| Do. do. at Adampally.                                            | 4,58,443 1 11       | 4,23,610 13 2                          | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 3,827 10 0      | 3,827 10 0      | Completed. |
| Acqueduct across the river Kidney.                               | 2,83,568 11 0       | 2,78,110 3 0                           | .....                                          | .....               | 5,36,880 7 3                                     | .....                               | 5,36,880 7 3           | 4,303 0 0       | 4,303 0 0       | Completed. |
| Canal for one mile from the head sluice of the Kurnool Anicut.   | 63,000 0 0          | 43,422 1 4                             | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 73,231 1 0      | 73,231 1 0      | Completed. |
| Main Canal, 1st Sec. 17 1/2 miles.                               | 11,24,743 12 5      | 11,13,731 13 0                         | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 2nd do. 18 to 22 do.                                         | 20,24,352 87 1      | 20,14,528 11 4                         | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 3rd do. 32 to 43 do.                                         | 9,50,861 0 10       | 9,30,618 0 11                          | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 4th do. 41 to 53 do.                                         | 10,85,767 8 9       | 8,91,201 7 5                           | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 5th do. 61 to 72 do.                                         | 8,91,880 1 1        | 8,58,880 7 3                           | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 6th do. 73 to 92 do.                                         | 9,46,314 4 5        | 8,73,074 14 8                          | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 7th do. 92 to 113 do.                                        | 7,66,003 12 7       | 6,95,130 9 3                           | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 8th do. 113 to 135 do.                                       | 3,35,322 1 2        | 2,22,073 12 11                         | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 9th do. 141 to 178 do.                                       | 9,52,114 8 5        | 8,44,132 14 7                          | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Do. 10th do. 173 to 193 do.                                      | 2,57,263 11 2       | 1,83,266 1 7                           | .....                                          | .....               | 8,36,880 7 3                                     | .....                               | 8,36,880 7 3           | 8,36,880 7 3    | 8,36,880 7 3    | Completed. |
| Total ..                                                         | 110,22,060 15 5     | 1,07,23,378 2 5                        | 61,69 4                                        | 61,69 4             | 1,07,23,378 2 5                                  | .....                               | 1,07,23,378 2 5        | 1,07,23,378 2 5 | 1,07,23,378 2 5 | Completed. |
| <b>Branches.</b>                                                 |                     |                                        |                                                |                     |                                                  |                                     |                        |                 |                 |            |
| Branch channels and sluices of 1st Section.                      | 7,093 15 5          | 5,737 1 3                              | .....                                          | 5,737 1 3           | .....                                            | .....                               | 5,737 1 3              | 5,737 1 3       | 5,737 1 3       | Completed. |
| Distribution works of 2nd Section.                               | 8,610 0 0           | 5,832 13 6                             | .....                                          | 5,832 13 6          | .....                                            | .....                               | 5,832 13 6             | 5,832 13 6      | 5,832 13 6      | Completed. |
| Do. do. of 3rd do. ..                                            | 11,175 8 0          | 10,524 1 10                            | .....                                          | 10,524 1 10         | .....                                            | .....                               | 10,524 1 10            | 10,524 1 10     | 10,524 1 10     | Completed. |
| Do. do. of 4th do. ..                                            | 47,101 14 0         | 34,547 2 9                             | .....                                          | 34,547 2 9          | .....                                            | .....                               | 34,547 2 9             | 34,547 2 9      | 34,547 2 9      | Completed. |
| Constructing a bund across the canal to the 4th mile of section. | 76 0 0              | 74 7 0                                 | .....                                          | 74 7 0              | .....                                            | .....                               | 74 7 0                 | 74 7 0          | 74 7 0          | Completed. |
| Distribution works of 5th Section.                               | 21,073 10 0         | 10,240 12 8                            | .....                                          | 10,240 12 8         | .....                                            | .....                               | 10,240 12 8            | 10,240 12 8     | 10,240 12 8     | Completed. |
| Do. do. of 6th do. ..                                            | 72,338 8 4          | 45,217 8 1                             | 5,189 10 2                                     | 50,278 2 3          | .....                                            | .....                               | 50,278 2 3             | 50,278 2 3      | 50,278 2 3      | Completed. |
| Do. do. of 7th do. ..                                            | 47,617 9 0          | 23,024 11 8                            | .....                                          | 23,024 11 8         | .....                                            | .....                               | 23,024 11 8            | 23,024 11 8     | 23,024 11 8     | Completed. |
| Do. do. of 8th do. ..                                            | 61,659 3 5          | 33,369 10 4                            | .....                                          | 33,369 10 4         | .....                                            | .....                               | 33,369 10 4            | 33,369 10 4     | 33,369 10 4     | Completed. |
| Do. do. of 9th do. ..                                            | 61,175 4 0          | 35,854 2 4                             | .....                                          | 35,854 2 4          | .....                                            | .....                               | 35,854 2 4             | 35,854 2 4      | 35,854 2 4      | Completed. |
| Do. do. of 10th do. ..                                           | 15,617 3 1          | 14,082 10 2                            | .....                                          | 14,082 10 2         | .....                                            | .....                               | 14,082 10 2            | 14,082 10 2     | 14,082 10 2     | Completed. |
| Do. do. at Sontkashala ..                                        | 946 9 10            | 935 4 10                               | .....                                          | 935 4 10            | .....                                            | .....                               | 935 4 10               | 935 4 10        | 935 4 10        | Completed. |
| Kurnool Town water-supply.                                       | 1,692 0 7           | 1,454 1 11                             | .....                                          | 1,454 1 11          | .....                                            | .....                               | 1,454 1 11             | 1,454 1 11      | 1,454 1 11      | Completed. |
| Total ..                                                         | 3,43,227 0 1        | 2,50,304 15 11                         | 5,069 10 2                                     | 2,55,306 5 1        | .....                                            | .....                               | 2,55,306 5 1           | 2,55,306 5 1    | 2,55,306 5 1    | Completed. |
| Branch Repairs of August 1876                                    | 62,410 0 0          | 51,084 1 7                             | .....                                          | 51,084 1 7          | .....                                            | .....                               | 51,084 1 7             | 51,084 1 7      | 51,084 1 7      | Completed. |

| Works.                                                                                                         | Amount of Estimate. | Expenditure up to 31st Decem-ber 1877. | Cost during the Quarter ended 31st March 1878. | Total Expendi-ture. | Add Amount transferred to this from other Works. | Deduct Refund from this to other Works. | Total Net Expenditure. | Amount.    |                           | Remarks.   |
|----------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|---------------------|--------------------------------------------------|-----------------------------------------|------------------------|------------|---------------------------|------------|
|                                                                                                                |                     |                                        |                                                |                     |                                                  |                                         |                        | Available. | Increase of Expendi-ture. |            |
| <i>Egghills.</i>                                                                                               |                     |                                        |                                                |                     |                                                  |                                         |                        |            |                           |            |
| General Hospital with out-houses and compound wall at Kurnool.                                                 | 5,060 0 0           | 4,315 9 6                              | ...                                            | 4,315 9 6           | ...                                              | ...                                     | 4,315 9 6              | Rs. A. P.  | Rs. A. P.                 | Completed. |
| Repairs to Central Hospital with out-houses and compound wall at Kurnool.                                      | 98 0 0              | 60 10 1                                | ...                                            | 60 10 1             | ...                                              | ...                                     | 60 10 1                | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Overseer's hut at Kurnool.                                                                                     | 1,244 13 3          | ...                                    | ...                                            | ...                 | ...                                              | ...                                     | ...                    | Rs. A. P.  | Rs. A. P.                 | Completed. |
| Office, store-house, and workshop at Sootkasala.                                                               | 3,945 10 6          | 3,015 10 8                             | ...                                            | 3,015 10 8          | ...                                              | ...                                     | 3,015 10 8             | Rs. A. P.  | Rs. A. P.                 | Completed. |
| Powder magazine, store, and sta-tion roads at Rowanassy.                                                       | 4,403 4 0           | 4,403 4 0                              | ...                                            | 4,403 4 0           | ...                                              | ...                                     | 4,403 4 0              | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office, store-room, and artificers' shed at Rowanassy.                                                         | 5,915 5 5           | 7,612 6 1                              | ...                                            | 7,612 6 1           | ...                                              | ...                                     | 7,612 6 1              | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Improvement of the road approach-ing the above buildings and re-aligning the same at Rowanassy.                | 578 0 0             | 319 11 3                               | ...                                            | 319 11 3            | ...                                              | ...                                     | 319 11 3               | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Constructing the unfinished building intended for a Quartermaster Munici-pality into a Hospital at Bowan-assy. | 427 10 0            | 30 15 1                                | ...                                            | 30 15 1             | ...                                              | ...                                     | 30 15 1                | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office and store buildings at Vala-pandu.                                                                      | 2,019 4 0           | 2,019 4 0                              | ...                                            | 2,019 4 0           | ...                                              | ...                                     | 2,019 4 0              | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Repairs to Valapandu bungalow.                                                                                 | 654 8 0             | 424 0 0                                | ...                                            | 424 0 0             | ...                                              | ...                                     | 424 0 0                | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Dresser's house and store at Vala-pandu.                                                                       | 658 5 9             | 431 11 9                               | ...                                            | 431 11 9            | ...                                              | ...                                     | 431 11 9               | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office and store at Japund in Naga-pore Division.                                                              | 4,164 10 4          | 4,164 10 4                             | ...                                            | 4,164 10 4          | ...                                              | ...                                     | 4,164 10 4             | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office and store at Japund in Naga-pore Division.                                                              | 1,000 0 0           | 383 19 6                               | ...                                            | 383 19 6            | ...                                              | ...                                     | 383 19 6               | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Dresser's and Dresser's house at Japund in Nagpore Division.                                                   | 678 0 0             | 457 19 6                               | ...                                            | 457 19 6            | ...                                              | ...                                     | 457 19 6               | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office and store at Pussayal in Nagpore Division.                                                              | 3,977 7 7           | 3,871 13 5                             | ...                                            | 3,871 13 5          | ...                                              | ...                                     | 3,871 13 5             | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Dresser's house at Pussayal in Nagpore Division.                                                               | 297 2 0             | 262 7 2                                | ...                                            | 262 7 2             | ...                                              | ...                                     | 262 7 2                | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office and store at Chinnaganah in Nagpore Division.                                                           | 5,361 4 11          | 5,331 4 11                             | ...                                            | 5,331 4 11          | ...                                              | ...                                     | 5,331 4 11             | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Office and temporary store-shed at Ayloore in Koonthur Division.                                               | 432 0 0             | 204 1 3                                | ...                                            | 204 1 3             | ...                                              | ...                                     | 204 1 3                | Rs. A. P.  | Rs. A. P.                 | Do.        |
| Repairs to Assistant Office at Zor-pore.                                                                       | 327 0 0             | 311 0 10                               | ...                                            | 311 0 10            | ...                                              | ...                                     | 311 0 10               | Rs. A. P.  | Rs. A. P.                 | Do.        |

| Works                                                                                          | Amount of Estimate | Expenditure up to 31st Decem-ber 1877. | Cash during the Quarter ended 31st March 1878. | Total Expendi-ture. | Add Amount transferred to this from other works. | Deficit Refund from this to other Works. | Total S. / Expenditure. | AMOUNT.        |                |                                         | Remarks.      |
|------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|------------------------------------------------|---------------------|--------------------------------------------------|------------------------------------------|-------------------------|----------------|----------------|-----------------------------------------|---------------|
|                                                                                                |                    |                                        |                                                |                     |                                                  |                                          |                         | Available.     | Un-avail-able. | Excess of Un-avail-able over Available. |               |
|                                                                                                | Rs. A. P.          | Rs. A. P.                              | Rs. A. P.                                      | Rs. A. P.           | Rs. A. P.                                        | Rs. A. P.                                | Rs. A. P.               | Rs. A. P.      | Rs. A. P.      | Rs. A. P.                               |               |
| Bedding.                                                                                       |                    |                                        |                                                |                     |                                                  |                                          |                         |                |                |                                         |               |
| Office, store, and workshop at Kurnool.                                                        | 30,612 0 0         | 17,207 6 1                             | ...                                            | 17,207 6 1          | ...                                              | ...                                      | 17,207 6 1              | 1,311 10 11    | ...            | ...                                     |               |
| Workshop latrine at Kurnool.                                                                   | 145 3 0            | 141 11 6                               | ...                                            | 141 11 6            | ...                                              | ...                                      | 141 11 6                | 6 7 6          | ...            | ...                                     |               |
| Iron and brass foundry at Kurnool and expense for repairing and despatching stores at Kurnool. | 15,227 15 4        | 13,320 4 3                             | ...                                            | 13,320 4 3          | ...                                              | ...                                      | 13,320 4 3              | 7 11 1         | ...            | ...                                     | Completed Do. |
| Quarters for Assistant Engineer and Assistant Surveyors at Kurnool.                            | 1,296 0 0          | 666 15 4                               | ...                                            | 666 15 4            | ...                                              | ...                                      | 666 15 4                | 669 0 0        | ...            | ...                                     | Do.           |
| Engineer's bungalow at Dhoor.                                                                  | 4,973 7 6          | 4,972 9 5                              | ...                                            | 4,972 9 5           | ...                                              | ...                                      | 4,972 9 5               | 6 11 1         | ...            | ...                                     | Do.           |
| Storekeepers' bungalow at Dhoor.                                                               | 3,200 0 0          | 2,916 8 9                              | ...                                            | 2,916 8 9           | ...                                              | ...                                      | 2,916 8 9               | 4 3 7 3        | ...            | ...                                     |               |
| Overseer's house at Eastampudi and Appala.                                                     | 1,100 0 0          | 753 8 3                                | ...                                            | 753 8 3             | ...                                              | ...                                      | 753 8 3                 | 3 6 7 3        | ...            | ...                                     |               |
| Provisions and out-holdings for an Assistant Engineer and his family at Dhoor.                 | 2,000 0 0          | ...                                    | ...                                            | ...                 | ...                                              | ...                                      | ...                     | 2,000 0 0      | ...            | ...                                     |               |
| Total.                                                                                         | 1,03,574 7 3       | 83,406 13 6                            | ...                                            | 83,406 13 6         | ...                                              | ...                                      | 83,406 13 6             | 20,407 9 8     | ...            | ...                                     |               |
| Line of Telegraph.                                                                             | 72,033 12 0        | 71,496 13 10                           | ...                                            | 71,496 13 10        | ...                                              | ...                                      | 71,496 13 10            | 637 15 2       | ...            | ...                                     | Completed     |
| Navigation.                                                                                    | 8,81,548 0 0       | ...                                    | 60 0 0                                         | 60 0 0              | ...                                              | ...                                      | 60 0 0                  | 3,54,488 0 0   | ...            | ...                                     |               |
| Grand Total.                                                                                   | 12,64,285 7 9      | 11,63,208 4 3                          | 11,239 11 7                                    | 11,11,71,507 15 13  | ...                                              | ...                                      | 11,11,71,507 15 13      | 14,32,722 7 11 | ...            | ...                                     |               |

## PUBLIC WORKS DEPARTMENT, 2ND AUGUST 1878.

From Major P. LAMBERT, R.E., Examiner of Accounts, to the Chief Engineer for Irrigation, dated 2nd August 1878.

I HAVE the honor to transmit herewith the statement of the credits to construction during quarter ended 30th June 1878.

H. Navigation.  
H. II.  
H. II. Supplemental.  
H. III.  
H. IV.

the credits to construction during quarter ended 30th June 1878, No. 1,524 I, dated 11th December 1877, not including the credits to construction during quarter ended 30th June 1878.

3. With reference however to paragraph 1 of the report, the adjustments necessary for debiting Capital due to expenditure on Capital Works from 1st January 1878 to 30th June 1878.

No. 6.

ORDER THEREON, 2nd August 1878.

ORDERED that this report be forwarded to the Chief Engineer for Irrigation.

(True Copy)

(Signed)

(True Copy)

*Ellen G. Ryan*

To the Chief Engineer for Irrigation.

" Chief Engineer and Manager, Madras Irrigation Company's Account.

" Examiner of Irrigation Company's Account.

" Revenue Department.

Exd T. D. Ryan.

Spare Copies.

Revenue Department

43748

REVENUE  
ACCOUNT

GOVT. OF (1878) Madras.

PUBLIC WORKS.

THE CITY ENGINEERING DEPARTMENT.

11 Feb. 1878. Received of the City Engineer

Rs. 100/-

RECEIVED

Feb. 1878

Rs. 100/-

Communicated to  
the Board of Revenue

28 Aug. 1878

Revenue Department and Civil Engineer  
The above receipt of the City Engineer  
for Rs. 100/- is hereby acknowledged  
and the same is entered in the account

With Order