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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No.	2662	Press
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Dated	11-9	1865

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
11th September 1865.*

No. 236.

Read the following :—

No. 112.

Report of progress of work done on the Lawrence Asylum works during the quarter ending 31st July 1865, as called for in G. O. No. 1,138, dated 21st April 1864.

1. The total expenditure during the past quarter has been, as shown by the Progress Report, Rupees 27,265-6-11.

2. TRAMWAY FROM BRICKFIELDS.—This work has been completed, another winding engine has been fitted up on the top of the incline, and bricks are being brought up from the Brickfields to the site; the length of the incline is 1,446 feet, and the rise 254 feet, a turn-table is being fitted at top to turn the waggons on to a line to take the bricks to the other site, and one also is to be fitted at the bottom to take the waggons on to the line now in course of construction through the Brickfields.

3. FEMALE ASYLUM SITE.—19,430 Cubic yards of earthwork have been done, and the earth thrown so as to make an embankment connecting the two sites, thus forming the only road of approach which could possibly be made at a feasible gradient to the Male Asylum site, and while it will greatly facilitate and cheapen the carriage of materials, it will also save a long iron pipe syphon, which otherwise would have been necessary for the delivery of water to this site by permitting the use of earthen pipes through which the water will flow by gravitation, there being a fall of six feet from the one site to the other; adding the 17,129 cubic yards earthwork done before, 36,559 cubic yards have been excavated up to date.

4. BRICKFIELDS.—In the Brickfields the 10-H. P. horizontal engine and boiler reported in the last report as just received from Madras, have been fitted up, as also the Crushing Rollers and Pugmill, but as the rollers of the Brick-making machine have not been received the Brick-making machine cannot be used, but the Crushing Rollers and Pugmill are in daily use as two of the hand-machines have been moved over, and sufficient clay is supplied for them and for another small hand-machine, yielding in all 7,000 bricks a day. When worked up to full power this Pugmill will doubtless turn out enough clay for from 20,000 to 25,000 bricks a day, another (4-H. P.) engine has been set up to drive three of the Pugmills formerly driven by bullocks, each mill supplies one hand-machine, and as each mill took two pairs of bullocks, this engine saves the labor of six pairs of bullocks; another mill can be fitted up to be driven by the same engine if necessary; the cost of a pair of bullocks per diem exclusive of their original value being not less than one Rupee and a half, a great saving is anticipated by this arrangement which answers admirably. The wet weather during the month of July has interfered much with brick-making, the monsoon though not a heavy one has been accompanied with very high wind, and the drifting rain has destroyed, in spite of every precaution to keep the hacks covered with grass, a large number of bricks which had been on the hacks for months (some indeed since March, and were not even then dry enough to burn) 4,61,820 bricks have been made during the quarter, 1,01,153 burned, and 35,040 tiles also have been made.

**Proceedings of the Madras Government, Public Works Department,
11th September 1865.**

5. **SERVANTS' HOUSES.**—Eleven of the houses in the 2nd block have been completed, and the rest of this block is nearly ready.

6. **WORKSHOPS.**—These buildings were reported as completed in the last report, gates have since however been fitted to the entrance and ventilators put up in the Smiths' shop, the fan blast for the Smiths' furnaces has been completed and answers admirably. The Vertical and Circular Saws have, in addition to all wood required for work here, cut up the wood work for the new Court House in course of erection at Ootacamund.

7. **PLANTATION.**—About 1,30,000 Australian trees have been planted out during the quarter, and ornamental trees have also been planted on either sides of the roads of approach, &c.; planting operations are still being continued.

8. **LIME STONE.**—Four thousand parabs of stone have been received during the quarter, which at Rupees 2-2-0 per parah, cost 8,500 Rupees.

9. **TIMBER.**—Timber to the extent of 3,505 cubic feet has been carted out from Ootacamund timber yard during the quarter.

10. **ROADS.**—The main road of approach to the sites has been properly shaped, and drains have been built, the road from Ootacamund has been repaired and kept in order.

11. We have had rain on forty-six days during the quarter, when out-door work was wholly or partially stopped, the rain-fall was 26.02 inches, and total up to end of July from 1st January 1865, 33.18 inches.

OOTACAMUND,
31st August 1865.

(Signed) W. FAREWELL, Major,
Executive Engineer.

(Signed) G. W. WALKER, Lieut-Colonel, R. E.,
Superintending Engineer, 7th Division.

No. 237. ORDER THEREON, 11th September 1865, No. 2,662.

CIVIL WORKS, No. 28.

Ordered to be communicated to the Home
Government.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer of the 7th Division.
,, Ecclesiastical Department.
,, Educational

Ed. S. T. Augustin.

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Ootacamund 31st August 1865

of progress of work done on the Lawrence Asylum works during the quarter ending 31st July 1865, as called for in G.O. No. 1138 dated 24th April 1864.

The total expenditure during the past quarter has been as shown by the Progress Report 27265. 6. 11

This work has been completed another winding engine has been fitted up on the top of the incline & bricks are being brought up from the Brickfields to the site, the length of the incline is 1446 ft and the rise 254 ft. a turn table is being fitted at top to turn the waggons on to a line to take the bricks to the other site and one also is to be fitted at the bottom to take the waggons on to the line now in course of construction through the Brickfields.

19430 Cyds of earthwork have been done and the earth thrown up as to make an embankment connecting the two sites, thus forming the only road of approach which could possibly be made at a feasible gradient to the male asylum site, and while it will greatly facilitate and cheapen the carriage of material it will also save a long iron pipe siphon, which otherwise would have been necessary for the delivery of water to this site by permitting the use of earthen pipes through which the water will flow by gravitation, there being a fall of six feet from the one site to the other. adding the 17129 Cyds earthwork done before 36559 Cyds have been excavated up to date.

4. In the Brickfields the 10 H.P. Horizontal Engine and boiler reported in the last report as just received from Madras have been fitted up as also the Crushing rollers and pugmill, but as the rollers of the brick making Machine have not been received the brick making Machine cannot be used but the Crushing rollers and pugmill are in daily use as two of the hand machines have been moved over, and sufficient clay is supplied for them and for another small hand Machine yielding in all 7000 Bricks a day when worked up to full power this pugmill will doubtless turn out enough clay for from 20000 to 25000 Bricks a day, another (4 H.P.)

Engine has been set up to drive 3 of the fine mills formerly driven by Bullocks, each mill supplies one hand machine and as each mill took two pairs of Bullocks, this Engine saves the labor of six pairs of Bullocks, another mill can be fitted up to be driven by the same engine if necessary, the cost of a pair of Bullocks per diem exclusive of their original value being not less than one Rupee and a half ~~per diem~~ a great saving is anticipated by this arrangement which answers admirably; the wet weather during the month of July has interfered much with Brickmaking, the monsoon though not a heavy one has been accompanied with very high wind and the drifting rain has destroyed in spite of every precaution to keep the harts covered with grass, a large number of Bricks which had been on the harts for months (some included since March and were not even then dry enough to burn) ~~have been destroyed~~ 461820 bricks have been made during the quarter, 101153 burned and 350440 tiles also have been made.

5. 11 of the houses in the 2d block have been completed and the rest of this block is nearly ready.

6. These buildings were reported as completed in the last report, gates have since however been fitted to the entrance and ventilators put up in the Smiths shop, the fan blast for the Smiths furnaces has been completed and answers admirably. The vertical and circular Saws have in addition to all wood required for work here, cut up the woodwork for the new Court House in course of erection at Ostacamund.

7. About 130000 Australian Trees have been planted out during the quarter and ornamental trees have also been planted on either sides of the roads of approach to planting operations are still being continued.

8. 4000 Cans of stone have been received during the quarter which at 2.20 per Can cost 8500 Rupees.

9. Timber to the extent of 3505 Cft has been carted out from Ostacamund timber yard during the quarter.

10. The main road of approach to the Site has been properly shaped and drains have been built, the road from Ostacamund has been repaired and kept in order.

11. We have had rain on 46 days

during the quarter when outdoor work was wholly or partially stopped. the rainfall was 26.02 inches and total up to end of July from 1st January 1865 33.18 inches

W. H. H. H. Major
Executive Engineer

W. H. H. H. Superintendent Engineer of Division

