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MADRAS RECORD OFFICE.**Government of Madras.****DEPARTMENT.**

G.O. No.	Press Mis.
Dated	18

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department.
14th April 1866.

No. 263. Read the following letter from the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, dated Coonoor, 2nd April 1866, No. 323:—

I have the honor to forward special Progress Reports of the Lawrence Asylum Works for the second and third quarters of the current official year, called for in your Memorandum No. 89 of 22nd March. I regret the neglect which has caused their long delay, which I trust will not occur again.

Report of progress on the Lawrence Asylum Works during the Quarter ended 31st October 1865—Vide G. O. No. 1,138, dated 21st April 1864.

1. *Expenditure.*—The expenditure during the past quarter has been Rupees 22,400-9-3.

2. *Excavation of sites.*—The excavation of the site for the Female Asylum and for the Church has been completed during the quarter, the site for the Hospital has also been nearly dug out, the site for the Boys' Asylum building has been already reported as completed, so that now nearly all the very heavy earth-work necessary for the formation of the sites of these extensive buildings is nearly all finished.

3. Rain fell on forty-two days during the quarter, a total of 22 7/2 inches having fallen, the heaviest fall was on the night of the 23rd October 1865, when five inches fell in 12 hours, and three inches on the two subsequent days, from this unprecedented fall great damage was done in the brickfields, at least 4 1/2 lacs of bricks having been destroyed on the hacks, and a large kiln then in course of being burned was nearly entirely destroyed—Vide letter No. 176, dated 31st October 1865, printed with G. O. No. 3,573 of 24th November 1865. It took more than a week to get things in the brickfields at all into working order again. The heavy embankment connecting the two sites sank very considerably in several places, and it took all our available Convict labor for a week to repair the damage to this and the other newly made embankments for the tramways.

4. *Brickfields.*—5,63,390 bricks were made during the quarter, 4,36,350 were burned. The rollers of the steam brick-making machine having been received, the machine has been sent to work and answers admirably, the bricks being good and the work economical.

5. *Mortar.*—7,086 parabs of 225 lbs. of lime-stone have been quarried in the low country and carted up to the sites.

6. *Servants' quarters.*—The second block of servants' quarters has been completed, and the entire building designed to accommodate forty Native servants is finished.

7. *Tramway.*—This line has been completed through the entire length of the brickfields, and bricks are being now drawn up to the sites.

8. *Hospital.*—The excavation of this site having been as above reported nearly completed, bricks are being carted up ready for the building.

9. *Plans.*—The third set of plans and estimates that have been called for and prepared in this office for the buildings required for the Institutions were completed in September 1865, these plans were carefully prepared according to G. O. No. 2,759 of 21st September 1864, and the verbal instructions given by His Excellency the Governor on the subject. His Excellency the Governor during his visit to Ootacamund examined the whole of the plans, and subsequently on the 7th October 1865 they were despatched to the Superintending Engineer, 7th Division.

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

OOTACAMUND,
31st March 1866.

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

COONOOOR,
2nd April 1866.

... and arrived but now a short date.

*Proceedings of the Madras Government, Public Works Department,
14th April 1866.*

Report of progress on the Lawrence Asylum Works during the Quarter ended 31st January 1866—Vide G. O. No 1,138, dated 21st April 1864.

1. *Expenditure*—The expenditure during the quarter has been as per Progress Report, Rupees 20,177-11-1.
2. Rain fell on nine days in November and on five in December, but after the 8th of the latter month till the end of the quarter having uninterrupted fine weather, brick and tile making were carried on as fast as possible. 11,16,070 bricks having been made and 8,34,156 having been burned, 1,17,460 tiles were made, and 20,000 were burned.
3. *Steam Brick-making Machine*—The rollers for the steam brick-making machine, having as stated in the last quarterly report been received, the machine has been regularly worked, and as it was found that the physical labor of firing, &c, was greater than could be performed by any of the Apprentice lads from the Lawrence Asylums attached to the works, the services of a Private, an Engine Driver by trade, from Her Majesty's 105th Regiment stationed at Wellington, were through the kindness of the Officer Commanding the Regiment, temporarily obtained to work the engine, this machine takes 62 Convicts to work it, including mud carriers, fillers, takers off, barrow men, wood choppers, &c, and 2,000 bricks an hour is about the average of work done by it; the bricks are rather smaller than the ordinary size, but this far from being a disadvantage is found rather the contrary, for they dry much quicker and do not split nearly so much on the backs, and the inconvenience that might otherwise arise from having two different sizes of bricks, viz., those made by this machine and those made by Clayton's Patent Hand Brick-making Machines will be obviated by taking all bricks made by the steam brick-making machine across to the site for the Girls' Asylum to be used only in that building, altogether the working of this steam brick-making machine, manufactured by Messrs Bradby and Craven, is greatly to be commended, and has turned out to be a most satisfactory adjunct to these works, the whole of the machine is so good, strong, simple and easily worked that though we have had it at work uninterruptedly for three months, the whole of the gearing is in as perfect working order as when it was first set up; the brick produced by it are very far superior to those made in Clayton's machines or to any bricks hitherto seen in this part of India, and worth three times the price of hand-made table bricks, though they cost only about the same.
4. *Shola*—During the quarter a cart road, half a mile in length from the brickfields into the Shola situated above them, for the purpose of bringing out fire-wood has been made.
5. *Road to Deva Shola*—It having been decided that the works are to be, to a great extent, supplied with fire-wood by the Forest Department from the Deva Shola, the road leading thereto was put into good repair, wooden bridges and drains repaired and in some instances reconstructed.
6. *Tramway*—During the quarter eight tram-wagons have been completed and put on the line, 6,21,170 bricks were drawn up from the brickfield, the tramway through the brickfields where the rails had sunk from the hind rains was taken up and rails re-laid.
7. *Hospital*—1,683 cubic yards of earth-work were done towards the excavation of the plateau for the site of this building, there is still some of the bank remaining, this however is left for the present because as it is proposed to mix mud mortar in this building the remaining portion can be excavated as the mud is required to be mixed up, and this earth being so excavated will not interfere with building operations, for the earth has only been left in that portion of the plateau which will not be built upon, 2,93,140 bricks have been carted up to the site; sanction having been accorded in G. O. No. 3,442, dated 16th November 1865, for the preparation of doors and windows, 13 window frames, 28 door frames, 60 window sashes, and 28 doors have been made.
8. *Mortar*.—3,616 parabs of lime-stone have been carted up during the quarter from the quarries at Caramaddy.
9. In the year 1865, which terminated during the quarter under report, rain fell on 121 days, giving a total fall of 63.9 inches during the year. October was the wettest month, 13.6 inches having fallen, five inches of which fell on one day.

*Proceedings of the Madras Government, Public Works Department,
14th April 1866.*

10. *Plans*.—In consequence of the plans for these buildings not having as yet received sanction, these special quarterly reports are, it is feared, more scanty than could be wished, although as every exertion is being made in the speedy preparation of materials, it is hoped when the plans are sanctioned nearly every thing being on hand, the work will proceed very rapidly.

(Signed) W. FAREWELL, Major,
Executive Engineer

OOTAČAMUND,
31st March 1866.
COONOOR,
2nd April 1866.

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

No. 264.

ORDER THEREON, 14th April 1866, No. 1,155.

Ordered to be communicated to the
Home Government.

CIVIL WORKS, No. 38.

(True Extract.)

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

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

Exd. S. T. Augustin.

... and was found out to be a most satisfactory.

Executive Engineer's Office
Melgheries

Cotacamund 31 March 1866

Report of Progress on the Lawrence Asylum works during the quarter ended 31st January 1866, vide L & C No 1138 of 27th April 1864.

Expenditure. The expenditure during the quarter has been as per Progress Report 20177. 11. 1

Rain fell on 9 days in November and on 5 in December, but after the 8th of the latter month till the end of the quarter having uninterrupted fine weather, brick and tile making were carried on as fast as possible. 1146070 bricks having been made and 834188 having been burned. 117260 tiles were made and 20000 were burned.

Steam Brick
making machine

The rollers for the steam Brickmaking Machine having as stated in the last quarterly report, been received, the Machine has been regularly worked, and as it was found that the physical labor of firing 88" was greater than could be performed by any of the apprentice lads from the Lawrence Asylum attached to the works, the services of a Private, an Engine Driver by trade, from the 105th Regiment stationed at Wellington, were through the kindness of the Officer commanding the Regiment, temporarily obtained to work the Engine. Three machine takers, 62 Connects to work it, including mud carriers, fillers, takers off, barrow men, wood choppers &c, and 2000 bricks an hour is about the average of work done by it. the bricks are rather smaller than the ordinary size, but the disadvantage being a disadvantage is found rather the contrary, for they dry much quicker and do not split nearly so much on the backs, and the inconvenience that might otherwise arise from having two different sizes of bricks, viz those made by this machine and those made by Claytons patent hand brick making machines will be obviated by taking all bricks made by the steam brickmaking machine across both sites for the girls Asylum to be used only in that building. altogether the working of the steam brick making Machine, manufactured by Messrs Bradby and Craven, is greatly to be commended, and has turned out to be a most satisfactory

factory adjunct to these works, the whole of the
Machine is so good, strong, simple and easily worked
that though we have had it at work uninter-
ruptedly for three months, the whole of the

is in as perfect working order as when it was first set up - the bricks produced by it are very far superior to those made in Clayton's machines or to any bricks hitherto seen in this part of India and worth three times the price of hand made bricks, though they cost only about half the

24 During the quarter a Cart road half a mile in length from the brickfields into the shola situated above them for the purpose of bringing out firewood - has been made.

5. It having been decided that the works
are to be, to a great extent, supplied with firewood, Road to Dewa
by the Forest Department from the Dewa Shola, the
road leading thence was put into good repair, the
wooden bridges and drains repaired and in some
instances reconstructed.

6. During the quarter 8 tram waggons have been completed and put on the line 621170 bricks were drawn up from the brickfields, the tramway through the brickfields where the tramway from the late rams was taken up and rails had sunk.

1688 Ryde of Earthwork were done towards
the excavation of the plateau for the site of this
building, there is still some of the bank remaining
this however is left for the present, because as it
is proposed to strip mud mortar in this
the remaining portion can be

and is required to be excavated as the
being so excavated will not interfere with building
operations, for the Earth has only been left in
that portion of the plateau, which will
be built upon - 293140 bricks to
be the size of the

to the above, sanction having been accorded by G.O. No. 3443 of 16 November 1865 for the preparation of doors and windows. 13 window frames, 60 window sashes made.

made.
8. 3616 Panels of line stone have been
cast up during the quarter from the quarries

at Saramaddy.

9. In the year 1865 which terminated during the quarter under report, rain fell on 121 days, giving a total fall of 63.9 inches during the year, October was the wettest month, 13.6 inches having fallen, 5 inches of which fell on one day.

10. In consequence of the plans for these buildings not having as yet received sanction their special quarterly Reports are it is feared more scanty than could be wished, although as every exertion is being made in the speedy preparation of materials, it is hoped when the plans are sanctioned nearly everything being on hand, the work will proceed very rapidly.

Winners & Mapp
Executive Engineer

Wm. L. C. F.
Superintendent

Cornwall
2^d April 1866.)

Executive Engineer's Office
 Telghernes
 Cotacambund 31 March 1866

Report of Progress on the Lawrence Asylum works during the quarter ended 31st October 1865, vide L.O. No. 1138 dated 21st April 1864

Expenditure

The expenditure during the past quarter has been 22400.9.3

Excavation of sites.

The excavation of the site for the female asylum and for the church has been completed during the quarter, the site for the Hospital has also been nearly dug out, the site for the boy asylum building has been already reported as completed, so that now nearly all the very heavy earthwork necessary for the formation of the sites of these extensive buildings is nearly all finished

Rain fell on 142 days during the quarter, a total of 22.72 inches having fallen, the heaviest fall was on the night of the 23rd October 1865, when 5 inches fell in 12 hours and 3 inches on the two subsequent days, from this unprecedented fall great damage was done in the brickfields, at least 4 or 5 lots of bricks having destroyed on the hearth, and a large kiln then in course of being burned was nearly entirely destroyed, vide letter No. 1764 of 31st October 1865, printed with L.O. No. 3573 of 24 Nov. 1865.

It took more than a week to get things in the brickfields at all into working order again. The heavy embankment connecting the two sites was very considerably in several places, and it took all our available convict labor for a week to repair the damage to this and the other newly made embankments for the tramways.

Brickfields.

563390 bricks were made during the quarter, 436350 were burned. The rollers of the steam brickmaking machine having been renewed, the machine had been set to work and answered admirably, the bricks being good and the work economical

Report of Progress of works done on the Lawrence Asylum works during the quarter ended 31st Oct 1865

No. 2

30/10/65

In a letter No. 3223 from the July 19th Engineer to the Secretary dated 22nd April 1864

5. 7086 Pans of 225 lbs of lime stone have
been quarried in the low country and carted up to Mortar
the sites -

6. The second block of servants quarters
has been completed, and the entire building designed
to accommodate 40 native servants is finished. Servants
Quarters

7. This line has been completed through
the entire length of the Brickfields, and bricks
are being now drawn up to the sites. Tramway

8. The excavation of the site having
been as above reported nearly completed. Bricks are
being carted up ready for the building. Hospital

9. The third set of Plans and Estimates
that have been called for and prepared in the
office for the buildings required for the Institutions were
Completed in September 1865, these plans were carefully
prepared according to G O No 2759 of 21st September 1864
and the verbal instructions given by His Excellency the
Governor on the subject. His Excellency the Governor
during his visit to Cotacamb examined the whole
of the plans and subsequently on the 7 October 1865,
they were despatched to the Superintending Engineer
Bengal Division

W. H. M. S. M. S.
Major
Executive Engineer

W. H. M. S. M. S.
Superintendent

Copy to
2 April 1866

No 323.

Supg. Engrs. Office
London 2^d April 1866.

From
Lieut. Col. Genl. W. Walker Esq.
Superintending Engineer
7th Division

Col. Genl. Sir Orr Esq.
Secretary to Govt. P.W.D.
Madras

Sir,
I have the honor to forward
Special Progress Reports of Lawrence
Esq. with works for the 2^d & 3^d Quarters
of the current official year, called
for in your Memo. No. 89 of 22 March.
I regret the neglect which has
caused this long delay, which
must not occur again.

I have the honor to be

Sir
Yours Very Obedt. Servant
Wm. Walker Esq.
Supg. Engineer 7th Div.

15
Lieut. Col. Genl. No 323 from
the Supg. Engrs. 7th Div.
to the Secretary to Govt.
dated 2^d April 1866.

17/3/66

1866

Report of Progress of
works under Lawrence
Esq. with works during the
quarters ending 31 Oct/65.

Copy in as letter to England
25 April 1866.

72537 and
Educational Series of 1865-1866

Spent 8th April 1866
Wed June 1866

30

to the Home Govt -
Attended the communication

Concise
and
Succinct

no. 1155

P. H. B. Dept
#1376
From
The Supr. Engineer
to
The Secretary to Govt
of India

Dated 24 April 1866
Received at

no. 323.
of Enclosures
forwarded for
Progress Report of
the Lawrence Orythem
Works for the 2nd & 3rd
Quarters of the current
Official year -

no. 1155 - 14 April 1866.

With an order

#163 #264