

(1) Number of pages 10

(2) Date of repair 19-10-38

(3) Initials of the Refractor CT

# MADRAS RECORD OFFICE.

Government of Madras.

*Public Works* DEPARTMENT.

|          |          |
|----------|----------|
| G.O. No. | Press    |
|          | Mis.     |
| Dated    | 19-10-38 |

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
for the month of January 1860.*

No. 173. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer ;  
to the Secretary to Government, dated 25th January 1860, No. 9566.

With reference to the orders quoted in the margin, and in continuation of my letter of the  
17th December 1859, No. 8489, I have the honor to submit an  
original letter from the Mint Master, offering his opinion on the  
suitability of the buildings at the Mint, for the reception of the  
foundry machine, lately ordered to be transferred to that depart-  
ment.

No. 2726 dated 22nd November 1859.  
1 Letter from the Mint Master, No.  
329, dated 10th January 1860.  
1 Abstract Estimate.  
1 Plan.

2. Major Orr does not consider it advisable to fit up the new machinery in the present  
foundry for the following reasons. That the building is sunk several feet below the surface of  
the ground, and is covered with a low roof. It is, therefore, inconveniently situated for using the  
large moulding boxes and heavy castings. It is also so damp as to be a source of obstruction  
to the progress of work by the difficulty experienced in drying the moulds, and the heat is  
scarcely endurable. Besides it cannot be enlarged or improved except at a great expense, and  
without encroaching on the ground now occupied by the smiths and carpenters of the establish-  
ment, which is already very limited. He therefore thinks it preferable to work only such of the  
minor apparatus of the new machinery as will improve the efficiency of the present foundry,  
and to defer setting up the rest till a separate building can be constructed for the whole.

3. The plan and estimate amounting to Rupees (13,220)\* thirteen thousand two hundred  
and twenty, for setting up the foundry at the Gun Carriage  
Manufactory, forwarded to Government on the 2nd November  
1859, and now re-submitted, have been approved of by Major  
Orr who recommends, as already stated in my letter of the  
17th December above referred to, that it be entered in the budget of 1860-61, with a view that  
such a building may be commenced on an eligible site within the rear square of the Mint, so  
soon as the state of the public funds will permit it. I have, therefore, to request that Govern-  
ment will be pleased to sanction the estimate accordingly, provision having been made in the  
budget for the full sum.

4. In consequence of certain deductions having been made in the estimate submitted on  
the 2nd November for the value of work to be defrayed by the Gun Carriage Department, the  
estimate now submitted has been revised.

No. 174. ORDER THEREON, 30th January 1860, No. 243.

Under the circumstances stated, the estimate submitted with this letter amounting to Ru-  
pees (13,220) thirteen thousand two hundred and twenty is sanctioned for entry in the budget  
of 1860-61.

(Signed) T. PYCROFT,  
Chief Secretary.

Received by  
4823

(Buildings)

Revised Abstract of Estimate No. of 185 / 5

District Madras.

Talook

Work Erecting an Iron Boundary at the Mint.

| Quantities | Description of Work          | Rate |       | Amount | Amount of each part |
|------------|------------------------------|------|-------|--------|---------------------|
|            |                              | Rs.  | A. P. | Paise  | Paise               |
| 28816      | Cub ft. Brickwork in chimney | "    | 2     | "      | 5602                |
| 672 3/4    | " " Flat arch work           | "    | 2     | 9/4    | 117                 |
| 1061 1/4   | " " Circular arch work       | "    | "     | "      | "                   |
| 425        | " " Cornice work             | "    | 3     | 3      | 212                 |
| 2536       | Suppl. Roofing with flat     | "    | "     | "      | 80                  |
|            | Spandrels & chimneys borders | 7    | 3     | "      | 326                 |
| 780        | Do. Serrata work             | "    | "     | "      | "                   |
|            | 3 courses flat iron work     | "    | "     | "      | "                   |
|            | Jelly 1 1/2 ins thick and    | "    | "     | "      | "                   |
|            | plastering 3 coats & lin     | "    | "     | "      | "                   |
|            | " masonry over the roof      | 10   | "     | 4      | 78                  |
| 513        | " " Serrata work             | "    | "     | "      | "                   |
|            | on ridge 3 ins thick Jelly   | "    | "     | "      | "                   |
|            | 3 courses flat iron work     | "    | "     | "      | "                   |
|            | forming 3 coats & lin        | "    | "     | "      | "                   |
|            | to the chimney & top         | "    | "     | "      | "                   |
|            | the terrace                  | 21   | "     | "      | 108                 |
| 150        | " " Roofing with T           | "    | "     | "      | "                   |
|            | iron rafters & covering      | "    | "     | "      | "                   |
|            | Sheet iron over the same     | "    | "     | "      | "                   |
|            | with                         | "    | "     | "      | "                   |
|            | Cornice work                 | "    | "     | "      | 1523                |

| Quantities. | Description of Work.                                                                                                                                                   | Rate. |       | Amount. | Amount for each part. |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-----------------------|
|             |                                                                                                                                                                        | No.   | C. P. | Recess. | Recess.               |
|             | Brought over                                                                                                                                                           | "     | "     | 2,523   |                       |
| 170         | Squares Plastering with 2 coats & brown to the walls                                                                                                                   | 100   | "     | 180.    |                       |
| 13          | " Plastering with 2 coats & brown to the cornice                                                                                                                       | 1     | 13 9  | 316.    |                       |
| 8           | " Plastering with 2 coats cement & brown mixed with oil to the ceiling                                                                                                 | 2     | 13 9  | 37      |                       |
|             | Coaly lime for removing the mass 1 foot in depth & also filling the same & also to the full height of the basement with moulding sand and well rammed over as per Plan | 1     | 16 0  | 16.     |                       |
| 84 1/2      | Suppl. Paving with 2 line dressed granite stone of 6 in. thick in abutments & piers in place to the three distances                                                    | 30    | "     | 655     |                       |
| 2           | Heavy blocks of granite stone of 2 line dressed for placing under the Cupola                                                                                           | 30    | "     | 25      |                       |
| 1           | Granite block of 2 line dressed for placing under the base                                                                                                             | 60    | "     | 120     |                       |
|             |                                                                                                                                                                        |       |       | 30      |                       |
|             | Brought over                                                                                                                                                           |       |       | 5,873   |                       |

| Quantities. | Description of Work.                                                                                                      | Rate. |       | Amount. | Amount for each part. |
|-------------|---------------------------------------------------------------------------------------------------------------------------|-------|-------|---------|-----------------------|
|             |                                                                                                                           | No.   | C. P. | Recess. | Recess.               |
|             | Brought over                                                                                                              | "     | "     | 5,873   |                       |
|             | Lining with fire bricks in clay within the Cupola masonry of 9 in. thick & erecting the furnace into the same as per Plan |       |       | 400     |                       |
|             | Doors for setting up the granite blocks under the machinery                                                               |       |       | 25.     |                       |
|             | Excavating the foundation levelling & removing the earth                                                                  |       |       | 100.    |                       |
|             | Erecting 3 ramps with masonry including the granite floor & complete in front of the 3 openings                           |       |       | 75      |                       |
|             | Arch for raising side walls 12 feet high                                                                                  |       |       | 114     |                       |
| 100 3/4     | Suppl. Limestone masonry and put up                                                                                       | 1     | 13    | 1819    |                       |
| 43 1/2      | Suppl. Lining bricks & recesses with nails over the girths                                                                | 5     | 11    | 226     |                       |
| 2           | Pair strong cast-iron fork frames for the base of the 1/2 complete                                                        | 72    | "     | 216     |                       |
|             | Brought over                                                                                                              |       |       | 8,848   |                       |

| Quantity | Description of Work                                                                      | Rate   | Amount | Amount for each part |
|----------|------------------------------------------------------------------------------------------|--------|--------|----------------------|
|          | Brought over                                                                             | " " "  | 1848.  |                      |
| 17       | Paint Bottom Windows & Shutters with frames inside & outside                             | 87 8 " | 1588.  |                      |
| 3        | Circular fan lights complete                                                             | 32 " " | 96.    |                      |
| 17       | Do. Do. Do. over the windows                                                             | 24 8 " | 417.   |                      |
| 6        | Bolt iron fire pads each with screw & nuts & washers complete for 6 windows              | 30 " " | 180.   |                      |
| 6        | Do. Do. Do. with do.                                                                     | 9 " "  | 54.    |                      |
| 12       | Do. Do. Do. pads (ced) with do.                                                          | 4 8 "  | 54.    |                      |
| 12       | Do. Do. Do. shut rods (ced) with do.                                                     | 7 8 "  | 96.    |                      |
| 12       | Single cast iron shoes (ced) of 4 in long for securing the fire rods & principal rafters | 6 " "  | 72.    |                      |
| 36       | Iron clamps of 1/2 in with screw & nuts                                                  | 2 8 "  | 96.    |                      |
| 50       | Squares Lead column 3 coats with lead & vermilion fan lights & other ornaments & gables  | 2 10 " | 155.   |                      |
|          | Brought over                                                                             | " " "  | 11527. |                      |

| Quantity | Description of Work                                                                                           | Rate   | Amount | Amount for each part |
|----------|---------------------------------------------------------------------------------------------------------------|--------|--------|----------------------|
|          | Brought over                                                                                                  | " " "  | 11527. |                      |
| 7        | Squares Black paint 3 coats with pencil white the iron band of the windows & ironwork                         | 1 12 " | 12.    |                      |
|          | Carry over for stone lining the portion of the old shed as per plan and removing the rubbish                  | " " "  | 150.   |                      |
|          | Difference of price in 1880                                                                                   | " " "  | 729.   |                      |
|          | Cub. ft. of timber used between 1880 and 1881 for 3 1/2 ft. Piers & bents in the dock and the main dock gates | " " "  | 802.   |                      |
|          | Standing charges and high scaffolding                                                                         | " " "  | 13220. |                      |
|          | Total Payers                                                                                                  | " " "  | 13220. |                      |

Contract Office of P.W.  
 25th January 1881

J. W. D. Wick (Colonel)  
 Chief Engineer, P.W.

Enclosure

New letter

From

The Chief Engineer  
(P. H.)

No 237/60

To the Secretary to Government  
(P. H.)

Dated 25<sup>th</sup> January 1860  
Received

No 9566

Revised Abstract Estimate  
of the expenses of erecting and  
furnishing at the Mill  
at Madras.

Amounting to Rs 1,220/-

Central Office of P. H. to  
S. P. H. Com

25<sup>th</sup> January 1860.

No 9566

Financial

From

The Chief Engineer

To

The Secretary to Government

Public Works Dept.

Sir,

No 226 dated 22<sup>nd</sup>  
No 22/59.

Enclosures 3  
1 Letter from the  
Chief Engineer  
No 22/59 dated 17<sup>th</sup>  
January 1860.  
1 Abstract Estimate  
1 Plan.

With reference to the orders  
quoted in the margin, and in continuation  
of my letter of the 17<sup>th</sup> December 1859 No 8189  
I have the honor to submit an original  
letter from the Mill Master, offering his  
opinion on the suitability of the Building  
at the Mill for the reception of the Foundry  
Machine lately ordered to be transferred  
to that Department.

2. Major Orr does not consider  
it advisable to fix up the new Machinery  
in the present Foundry for the following  
reasons. That the Building is sunk  
several feet below the surface of the  
ground, and is covered with a low roof.  
It is therefore inconveniently situated for  
using the large moulding Boxes and  
heavy

heavy castings. It is also so damp as to be a source of obstruction to the progress of work by the difficulty experienced in drying the moulds, and the heat is scarcely endurable. Besides it cannot be enlarged or improved except at a great expense and without encroaching on the ground now occupied by the Smiths and Carpenters of the establishment which is already very limited. He therefore thinks it preferable to work only such of the minor apparatus of the new machinery as will improve the efficiency of the present Foundry, and to defer setting up the rest, till a separate Building can be constructed for the whole.

The Plan and Estimate A. mounting to Rupees [3,220] Thirteen thousand two hundred and twenty for setting up the Foundry at the Gun Carriage Works, forwarded to Government on the 2nd November 1859 and now resubmitted, have been approved of by Major Oke who recommends, as already stated in my letter of the 19th December above referred to that it be entered in the Budget of 1860/61 with a view that such a Building may be

inclusive of the value of Timber & metal work to have been supplied by the G. Dept.

N: 6798.

be commenced on an eligible site within the pear square of the Fort so soon as the state of the public funds will permit. Since therefore it is recommended by the Government that the estimate according to provision having been made in the Budget for the year 1860.

In consequence of certain alterations having been made in the Estimate submitted on the 2nd November for the value of work to be defrayed by the Gun Carriage Department, the Estimate now submitted has been revised.

Central Office of the  
Department  
25th January 1860

L. S. Esq.  
Supt. Engrs.

Have the honor to be  
Sir  
Yours Most Obedient Servant

R. M. Smith Esq.  
Chief Engineer

To  
The Secretary to Government  
P. M. S.

P. S.

