M.R.O. 1—32,400—23-11-60.

MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

Cons 8-3-59

G.O. No.	565	Press Mis.
59-60 Dated	5-3	1859.

Not to be folded or roughly handled

No. 59. Read the following letter from Colonel C. E. FABER, Chief Engineer; to J. D. BOURDILLON, Esq., Secretary to Government, dated 26th February 1859, No. 8171.

SIR,

1 Copies of Correspondence.
1 Plan.
1 Estimate.

I do myself the honor to submit for the information and orders of Government, the accompanying Plan and Estimate received from the Acting Garrison Engineer, amounting to Rupees (7,900) seven thousand and nine hundred, for a building to contain the Nasmyth's Steam Hammer, and also for raising the pillars and roof, &c. of the Smithey Sheds in the Gun Carriage Manufactory.

2. In his letters Nos. 7734 and 7828, dated 23rd and 26th November last, the Inspector General of Ordnance and Magazines addressed the late Officiating Chief Engineer Lieutenant Colonel Lawford, on the subject of the great necessity that existed for the early preparation of the Plan and Estimate for the immediate employment of the Machine on the important work for which it is required.

3. In submitting copies of the correspondence on this subject, I have the honor to recommend the early sanction of Government to the work being executed on emergency.

4. The rates allowed have been examined and found to be moderate but sufficient.

Letter from Colonel G. BALFOUR, Inspector General of Ordnance and Magazines; to Lieutenant-Colonel E. LAWFORD, Officiating Chief Engineer, dated 23rd November 1858, No. 7734.

SIR,

I shall be obliged if you can furnish me with the estimated cost of the new buildings at the Gun-Carriage Manufactory, required for setting up the Steam-Hammers. As a person has been engaged in England to work the Hammers, it is considered advisable to have every thing in readiness, so that he may on arrival enter at once upon the duties of his profession. I am desirous therefore of addressing Government upon the subject, with a view to sanction being obtained for the immediate erection of the requisite buildings.

Letter from Colonel G. BALFOUR, Inspector General of Ordnance and Magazines; to Colonel C. E. FABER, Chief Engineer, dated 26th November 1858, No. 7828.

SIR,

In reply to your letter of 24th November 1858, No. 5747, I have the honor to state that I have been made acquainted with the views of the Government of India, regarding the removal of the Gun-Carriage Manufactory, and I have long felt that its continuance in its present site could not much longer be permitted, but as the Superintendent has only lately reported his decided objections to the removal of the Manufactory, you must be aware that the views of the Head of a large Establishment must have some influence in delaying its removal; moreover, as no definite arrangement have been made for a new site, you will know, from experience, that the opposition now raised to its removal will long delay the change.

2. I beg also to observe that when the large Estimates for the new buildings were submitted to Government, I advised consideration as to the new site but the Government, by Minutes of Consultation No. 2017, 20th June 1857, entirely over-ruled the suggestion, and decided on the Manufactory remaining at Vepery.

3. I am therefore, rather at a loss as to the arrangements to recommend for, believing that the removal of the Manufactory must early be effected, I am reluctant to see expensive buildings

put up; and yet I consider the employment of the valuable Machinery sent out with an expensive Establishment of trained European Foremen, to be of the greatest importance to the Government service, and I think if you would give your attention to the arrangements by which the whole of the Machinery can be most economically brought into immediate use, you will be rendering good service to the Department.

4. The specific question to reply to, is about fitting up the Steam Hammer now: great importance has been attached to the early employment of this Machine, and my recommendation is, to have it at once made available for the important purpose for which it is deemed useful, and let it be done at as little outlay as possible.

Letter from Captain H. L. PRENDERGAST, Acting Garrison Engineer; to Colonel C. E. FABER, Chief Engineer, dated 21st December 1858, No. 532.

SIR,

With reference to your Resolution No. 5845 of the 27th November, I have the honor to report that having communicated personally with Colonel Maitland, I have nearly got ready the estimate for the building required, for setting up the Nasmyth Hammers.

2. I am however in the first place restricting the estimate, solely for the above requirement, and not for carrying out Colonel Maitland's wishes fully, as that Officer is anxious to have the Engine fitted up for working the fans, and the Smithy to be altered accordingly I am thus meeting the 'letter' of Colonel Balfour's application to you; and will afterwards proceed in framing a new estimate for raising the roof of the Forge Sheds &c. to be in readiness for a further requisition.

3. The original estimate provided Rupees 13,900 for setting up the 2 Steam Hammers, building in the Furnace, Boiler, and Crane; this sum I hope to reduce to about 6,000 Rupees, as an approximate calculation.

4. The cause of this great difference, is in having a shed open all round, instead of a regular house with doors and windows; the fire bricks for the furnace, and many small items in the estimate are provided at the Gun Carriage establishment, an expensive cut granite flooring is dispensed with; and the foundation for the large Hammer will not require the use of the Steam Pile Driving Machine.

5. It is now proposed to raise the roof of the Forge Sheds instead of opening it into a ridge ventilator, this will add to the previous estimate, which amounts to Rupees 15,600; but as the raising of the Forges above the ground and providing a funnel chimney to each, is not deemed advisable, I trust the revised estimate will not exceed the latter amount.

Letter from Captain H. L. PRENDERGAST, Acting Garrison Engineer; to Colonel C. E. FABER, Chief Engineer, dated 26th January 1859, No. 591.

SIR,

With reference to your Resolution No. 5845 of the 27th November 1858, I have the honor to forward a Plan and Estimate with Abstract amounting to Rupees (7,900) seven thousand and nine hundred for the building required for setting up the Nasmyth Hammer with furnace, boiler, &c. and also raising the roof of the present Smith sheds, for the working of the smaller Steam Hammer.

2. In my letter No. 532 of the 31st Ultimo, to your address, I mentioned 6,000 Rupees as the probable amount of the estimate; but on further communication with Colonel Maitland, I found it would be necessary to give more circulation of air in the Forge Shed, in the middle

of which the 7 Cwt. Hammer is to be placed, and I have therefore included in the estimate, the improvements intended for the Smithy by this, there will be diminution in the estimate whenever called for, for setting up an Engine and Fans, for working the Forges.

No. 60. ORDER THEREON, No. 505; dated 5th March 1859.

Ordered to be referred to the Military Department.

(Signed) J. D. BOURDILLON,

Secretary to Government.

Ordnance Department

5.

No 7734.

From The Inspector General of Ordnance
and Magazines.

To The Officiating Chief Engineer
D. O'N.

Sir,

I shall be obliged if you can furnish me with the Estimated cost of the new building at the Gun Carriage Manufactory, required for setting up the Steam Hammers. As a person has been engaged in England to work the Hammers, it is considered advisable to have every thing in readiness, so that he may on arrival enter at once upon the duties of his profession. I am desirous therefore of addressing Government upon the subject, with a view to sanction being obtained for the immediate erection of the requisite buildings.

I

Inspector Gen.l Office,
Fort Saint George,
23.d November 1858

Share of
Mj.r G Balfour Colonel
Inspector Gen.l of Ord.ce
and Magazines

Ordnance Department
No.7828.

From The Inspector General of Ordnance
and Magazines.

To, The Chief Engineer

Sir,

In Reply to your letter of 24.th November 1858
No.5747, I have the honor to state that I have been
made acquainted with the views of the Government
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Manufactory, and I have long felt that its contin-
-uance in its present site could not much
longer be permitted, but as the Superintendent
has only lately reported his decided objections
to the removal of the Manufactory, you must
be aware that the views of the Head of a large
establishment-

establishment must have some influence in
delaying its removal;- moreover, as no definite
arrangements have been made for a new site,
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now raised to its removal will long delay the change

2 I beg also to observe that when the large
Estimates for the new buildings were submitted to
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3 I am therefore, rather at a loss as to
the arrangements to recommend for, believing
that the removal of the Manufactory must
early be effected, I am reluctant to see
expensive buildings put up; and yet I consider
the employment of the valuable Machinery
sent out with an expensive establishment

of

of Trained European Foremen, to be of the greatest importance to the Government Service, and I think if you would give your attention to the arrangement by which the whole of the Machinery can be most economically brought into immediate use, you will be Rendering good Service to the Department

4 The Specific question to reply to, is about fitting up the Steam Hammer now: great importance has been attached to the early employment of this Machine, and my Recommendation is, to have it at once made available for the important purpose for which it is deemed useful, and let it be done at as little outlay as possible.

I have &c
(Sd) G Balfour Colonel
Inspector Genl of Ords
and Magazines

Inspector Genl's Office,
Fort Saint George,
26th November 1858.

Garrison

9.

No 532 Garrison Engineer's Office

From, Captain H. L. Prendergast
Acting Garrison Engineer.

To, The Chief Engineer D. O. F.
Fort Saint George

Sir,

With Reference to your Resolution No 5845 of the 24th November, I have the honor to Report that having communicated personally with Colonel Maitland, I have nearly got ready the estimate for the building Required, for setting up the Nasmyth Hammers.

2 I am however in the first place, restricting the estimate, solely for the above Requirement, and not for carrying out Col. Maitland's wishes fully, as that Officer is anxious to have the Engine fitted up for working the fans, and the Smithy to be altered accordingly - I am thus meeting the 'letter' of Colonel Balfour's application to you; and will afterwards proceed in framing a new estimate for raising the roof of the Forge Shed &c to be in readiness fo

a further Requisition.

3 The original estimate provided Rs 13,900 for setting up the 2 Steam Hammers, building in the Furnace, Boiler, and Crane; this sum I hope to reduce to about 6000 Rupees, as an approximate calculation.

4 The cause of this great difference, is in having a shed open all round, instead of a Regular house with doors and windows; the fire bricks for the furnace, and many small items in the estimate are provided at the Gun Carriage establishment, an expensive cut granite flooring is dispensed with; and the foundation for the large Hammer will not require the use of the Steam Pile-driving Machine.

5 It is now proposed to raise the Roof of the Forge shed instead of opening it into a ridge ventilator, this will add to the previous estimate, which amounts to Rupees 15,600;

but

but as the Raising of the forges above the ground and providing a funnel chimney to each, is not deemed advisable, I trust the revised estimate will not exceed the latter amount.

Fort Saint George,
21st December 58.

I have &c
(Sd) H. L. Renderast
Capt
Asst Garrison Engineer.

No 591

Garrison Engineer's Office

From,
Captain H. L. Renderast,
Asst Garrison Engineer.

To
The Chief Engineer D. P. W.
Fort Saint George

Military

Sir,

With reference to your Resolution No 5845 of the 27th November 1858, I have the honor to forward a Plan and Estimate with Abstract amounting to Rupees (7900) Seven thousand & nine hundred for the building required for setting up the Nasmyth Hammer with

furnace

furnace, boiler, &c and also raising the Roof of the present Smith Sheds, for the working of the Smaller steam Hammer.

2. In my letter № 532 of the 31st Ultimo to your address, I mentioned 6000 Rupees as the probable amount of the estimate; but on further communication with Colonel Maitland, I found it would be necessary to give more circulation of air in the Forge Shed, in the middle of which the 7 Cwt Hammer is to be placed, and I have therefore included in the Estimate, the improvement intended for the Smithy by this, there will be diminution in the estimate whenever called for, for setting up an Engine and Fans, for working the Forges.

I have &c

Fort St. George } (Sig'd) H. L. Prendergast Lieut
26th January 1859 } Acting Garrison Engineer.

A True Copy

C. Pasley Major

40/J. A.G. Supt. Engr. C.C.

My dear Brother

Mr Ayles hand over the estimates forwarded with the letter of Feb 26th No 8171 of the bearer as it is wanted in a hurry for Col Gen's well with Bell -

GP.

1st Comm[illegible] Nov 15 Dec 1/82
Act 5/-82.

Enclosure in a letter from the Chief Engineer

To The Sec[y] to the Gov[t]
O.W.D.

Dated 26 Feb[y]
Rec[d] 26 Feb[y] 1859.

No 8171-
W 73/59

Copies of correspondence on the subject of the proposed buildings to contain the Nasmyth Steam Hammer and for raising the pillars & roof of the Smithy Shed in the Gun Carr: Manufactory -

Central Office of P. W.

Public

No. 8171.

Fort Saint George,
26th February 1859.

From,

The Chief Engineer.

To,

The Secretary to Government P. W. D.

Sir,

I do myself the honor to submit for the information and orders of Government, the accompanying Plan and Estimate received from the Acting Garrison Engineer, amounting to Rupees (7900) Seven thousand and Nine hundred for a building to contain the Nasmyth's Steam Hammers, and also for raising the Pillars and Roof &c. of the Smithy Sheds in the Gun Carriage manufactory.

2 In his letters Nos. 7734 and 7828, dated 23rd. and 26th. November last, the Inspector General of Ordnance and Magazines addressed the late Officiating Chief Engineer Lieutenant Colonel Lawford, on the subject of the great necessity that existed for the early preparation of the Plan and Estimate for

for the immediate employment of the Machine on the important work for which it is required.—

3 In submitting copies of the correspondence on this subject, I have the honor to recommend the early Sanction of Government to the work being executed on emergency.

4 The rates allowed have been examined and found to be moderate but sufficient

I have the honor to be,
Sir,
Your most Obt Servt
W. Faber Colonel
Chief Engineer

Central Office of P.W.
Fort Saint George,
26th February 1859.
W.F.

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

40/11.

Proceedings of the Mily Dt
of 10 June/59 C No 1625
with Encs. 24 Pcs

From Chief Engineer
of 9th July/59 C No 1807
with 1 Enc.

Plan returned with order
No 1704 - 14 July/59 -
to the Chief Engr

No 59 of 60 -

1897 - 1859 Department.
Dto Enc. 8th March -
No 1473.

From The Chief Engineer

To The Secy to Govt &c &c &c.

Date 26 February/1859
Rec'd 28

No 8171

Enclosures 3 Rets 2.
Enc. 22

Submitting for the Sanction
of Government a Plan & Estimate
amounting to £7900 for a building
to contain the Nasmyth's Steam
Hammer, and for raising the
pillars & Roof of the Smithery shed
in the Gun Carriage Manufactory
with an order &c

505 - W. 505

Ordered to be registered
in the Military Department

Fort St George
5th March/59

7 Copies to the Mily Depot
Dated 8th
with Plan & Estimate -