

MADRAS RECORD OFFICE.

Government of Madras.

Financial DEPARTMENT.

G.O. No. 55

Press
~~Mis.~~

Dated 1 - 2, 1858.

B.No. 9-10 7-8

Not to be folded or roughly handled

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Fort Saint George, Financial Consultation, 2nd February 1858.

No. 9. From R. E. MASTER, Esq., Acting Secretary Mint Committee; to T. PYCROFT, Esq., Chief Secretary to Government, dated 28th January 1858, No. 24.

SIR,

1. I have the honor, by desire of the Mint Committee, to request you will have the goodness to submit to the Right Honorable the Governor in Council the accompanying copy of a letter, from the Acting Mint Master, dated 21st Instant, No. 286, with two original Indents,* one for articles annually required at the Mint for making and repairing Machinery, &c., &c., in that Department, and the other for a 10 Horse Power Steam Engine, &c., for the use of the Mint.

2. The Committee instruct me to solicit the early despatch of the Indents to the Honorable the Court of Directors.

(Signed) R. E. MASTER,
Acting Secretary Mint Committee.

From Lieutenant Colonel F. C. COTTON, Engineers, Acting Mint Master;

To G. L. PRENDERGAST, Esq.,
„ S. D. BIRCH, Esq.,
„ W. H. BAYLEY, Esq., } Mint Committee,
dated 21st January 1858, No. 286.

GENTLEMEN,

**In Quadruplicate.* Para: 1st. I do myself the honor to forward an Indent* for Machinery required for the Madras Mint.

2nd. In this Indent I have entered one 10 Horse power Engine, which is not all the additional Steam power required in the Madras Mint, but there is such immediate necessity for one more Engine, that I feel sure the Government will allow me to purchase it from the supply sent out for the use of the Engineer's Department.

3rd. There are at present two small Steam Engines in the Mint, and one under construction, with another at present unserviceable, and requiring repairs which cannot be undertaken by the Mint Artificers, while so fully occupied as they are now.

4th. One of the two Engines in use is only of 3 Horse power. It was made in the Mint and is now employed in blowing the fan of the Cupola in the Iron Foundry, for which it answers very well.

5th. The other Engine in work is of nominal 6 Horse power, working to about 10 Horse power in laminating the Copper Straps received from England, which have to be brought to an accurate thickness for the several coins. This Engine was bought from the Engineer's Department, for 3,743 Rupees, and has enabled the Mint to issue Copper Coins, to the value of 5,81,000 Rupees, yielding a profit to the Government of 2,30,700 Rupees.

6th. The Engine under construction has been in hand more than three years, and will when finished be very inferior to an Engine bought at the same expense in England. It was made, because Colonel Smith, saw the necessity for working by Steam power in the Mint, when the Government did not consider it advisable to purchase an Engine. An effort was therefore made to build the Engine by the Mint Artificers, when their services could be spared, and there is at length a probability of its completion. It will be a serviceable Engine and work at 20 Horse power, which will be sufficient for the lamination of the Silver coined.

7th. The fourth is an agricultural Engine of 3 Horse power, now unserviceable. It was bought from the Engineer's Department for 2,364 Rupees, but, on examination, instead of being new it was found unfit for use, and that it had been long in use was proved by the very thick incrustation of lime on the boiler tubes.

8th. The good economy of using steam has been proved by the Copper laminating Engine.

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Indeed with the increased demand upon the Mint, the work could not be done in the Mint buildings without the aid of Steam.

9th. Steam power is now required for blowing the Black-smith's fires, and the furnaces used in the dross recoveries, as well as to turn the lathes, planing, and boring Machines, now all worked by hand. Additional Steam power is also required for the lamination of Copper, as the great demand for Copper Coin for this country, and the Straits Settlements makes it highly advisable, that we should not only increase our coinage from the Straits, but have also the means of working up the Copper Scissel.

10th. With regard to the latter, it is evident that as the waste Copper increases in quantity, the price at which it is purchased by the Merchants will rapidly decrease, partly because the demand for such Copper in Madras is limited, and in a still greater degree because the purchasers combine to keep down the price, which they are able to do in the hope that the Mint cannot continue to accumulate its waste metal.

11th. Judging from the last Auction Sale, the price the Scissel will fetch will not be more than 200 Rupees a Candy or 100 Rs. less than its cost to the Mint. This would be a most serious loss, and reduce very materially the profits from the Copper Coinage, not less than a lac of Rupees yearly would probably be sacrificed on this account. Under these circumstances, I have thought it advisable to make every effort to coin the waste Copper, which requires greater skill in manipulation than we at present possess. The metal either from an excess of oxygen or carbon becomes brittle, and the ingots fail frequently, from one or the other preponderating. This difficulty can be overcome, if in no other way, by obtaining a workman from England, but I think it probable that by practice, the necessary malleability will be secured without applying for help from home, and it is for the lamination of this Copper that I require an Engine of 15 Horse power

12th. The Engine need not be portable, it should work at moderate speed, and have a suitable boiler requiring as little room as possible. It is very necessary that the whole should be as simple as possible. The Agricultural Engine mentioned above, being of a most complicated construction, was very ill suited to the country. Had it not been for that, it might have been restored and brought into use in the Mint.

13th. The Pump indented for his for raising water for the work people and the Steam Engines. The blowing apparatus are for the forges and Furnaces.

14th. I hope these Machines will be sent out with all practicable expedition as they are much required for the efficiency of the Mint.

15th. I have also indented for a Stamping Press for small Coin which is very much wanted. We are now stamping all Coin by manual labour; small Coin, and large, in the same Presses; with an alteration only of the levers. This causes a great waste of space, which need not be, as there must be Presses of very simple construction suited to the coinage of Coin not more than $\frac{7}{16}$ ths of an inch in diameter. The Madras Mint ought to have the means of coining at least 50,000 small Coins daily, in addition to the Presses now in use, and I hope that Machinery for the purpose will be sent out.

16th. I regret to say that I cannot name the description of Press to be sent, as I have no late information on this point; but as I see allusion to coining Presses sent to Siam and elsewhere, I have no doubt that suitable Presses may be found for this Mint. It would be better to work them with Steam power, which should accompany the Presses.

(Signed) FRED. C. COTTON,
Acting Mint Master.

(True Copy.)

(Signed) R. E. MASTER,
Acting Secretary Mint Committee.

Fort Saint George, Financial Consultation, 2nd February 1858.

No. 10. To SIR JAMES C. MELVILL, K. C. B., Secretary at the East India House, dated 1st February 1858. No. 55.

SIR,

I am directed by the Right Honorable the Governor in Council to transmit, for submission to the Honorable the Court of Directors, the accompanying two Indents for Articles and Machinery required for the use of the Madras Mint, together with copy of a letter from the Acting Mint Master affording explanation of the necessity of the Machines indented for and requesting that they may be sent out with all practicable expedition.

2. Under the circumstances represented by Lieutenant Colonel Cotton, the Government would strongly urge on the Honorable Court an early compliance with the Indents now forwarded

(Signed) T. PYCROFT,
Chief Secretary.

Exd. J. A. Wilson.

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Incident of Machinery required from England
for the use of the Madras Mint.

- (1.) One 10 Horse Power Steam Engine
- (2.) Two Patent Fan Blowers / Gwynne & Co's 4th Size priced 14 £ /
- (1.) Rotary Pump / Gwynne & Co's 1st Size priced 10 £ /
- (1.) One Press for stamping small coins
- (1.) One Copy of Buchanan's Machinery by Rennie. -

Fort St George
Mint.

21st January, 1858

Wm. McAlister
Acting Mint Master.

Ld. Secy.

Indent of Articles required from England for the use of the Macbrass Mill.

Tiles.

4	Four ———	of 10	Each Three square clear smooth
4	Four ———	of 10	Each Flat & Basal
8	Eight ———	of 8	Each Flat Round
4	Four ———	of 12	Each ———
2 1/2	Twenty four ———	of 10	Each ———
3	Three ———	of 11	Each Round rough
3	Three ———	of 11	Each Square Basal
3	Three ———	of 5	Each Smooth
1	One ———	of 4	Each Square Smooth

To be used in making up new
Machinery and repairing of
Old.

Steel.

1/2	Half Ton ———	of 2	Each Flat & Basal
1/2	Half " ———	of 2 1/2	Each ———
1	One ———	of 3	Each ———
1/2	Half " ———	of 1	Each Square Basal
1/4	Quarter ———	of 1 1/4	Each ———
1/4	Quarter ———	of 1 1/4	Each ———
1/4	Quarter ———	of 2	Each ———
1/4	Quarter ———	of 2 1/2	Each ———
1/4	Quarter ———	of 1/2	Each Square Cast
1/2	Half " ———	of 1/4	Each ———
1	One ———	of 1	Each ———
1 1/2	One and a Quarter ———	of 1 1/2	Each ———
1/2	Half a Ton ———	of 4 1/2	Each Cast
1/4	Quarter ———	of 1	Each Flat Shier
1/4	Quarter ———	of 1 1/4	Each ———
1/4	Quarter ———	of 1 1/4	Each ———
1/4	Quarter ———	of 3	Each ———
4	Four ———	of 1 1/4	Each Round Cast
4	Four ———	of 1 1/2	Each ———
10	Ten ———	of 1 1/4	Each ———

For making Cutters, Cutter beds,
Box Screws, Milling Dies and
for Machinery.

For beds for Lathes Planing
and Boring Machines and for
several other works.

To make the dies for Grining.

Iron.

1 1/2	One and Half a Ton ———	of 1	Each Flat
1	One ———	of 1 1/4	Each ———
1	One ———	of 1 1/2	Each ———
1	One ———	of 1 3/4	Each ———
1	One ———	of 2	Each ———
1	One ———	of 2 1/2	Each ———
1	One ———	of 3	Each ———
1/4	Quarter ———	of 3 1/2	Each ———
1 1/2	One and Half a Ton ———	of 4	Each ———
1	One ———	of 4 1/2	Each ———
1	One ———	of 5	Each ———
1	One ———	of 5 1/2	Each ———
1/4	Quarter ———	of 6	Each ———
1/4	Quarter ———	of 6 1/4	Each ———
1/4	Quarter ———	of 6 1/4	Each Square
1/2	Half a Ton ———	of 1 1/2	Each ———
1	One ———	of 2 1/4	Each ———
1 1/2	One and Half a Ton ———	of 1	Each ———
3 1/2	Three and Half a Ton ———	of 1 1/4	Each ———
1	One ———	of 1 1/2	Each ———
1	One ———	of 1 3/4	Each ———
2 1/2	Two and Half a Ton ———	of 2	Each ———
1	One ———	of 2 1/4	Each ———
1 1/2	One and Half a Ton ———	of 2 1/2	Each ———

For stamping, cutting and Milling
Pump Screws and Lovers, Axes for Mills
and Engines, Bands, Castings, Chains, etc.
and for turning and grinding
parts of Machinery.

Iron.

1 One	Ton	of 23/4	inch Square	
1/2 Half	"	of 3	"	do
1/2 Half	"	of 3 1/2	"	do
1 One	"	of 4	"	do
1/2 Half	"	of 4 1/2	"	do
1 One	"	of 5	"	do
1 1/2 One and Half	"	of 5 1/2	"	Sheet
1/2 Half	"	of 5 1/2	"	do
3 Three	"	of 5 1/2	"	do
1 One	"	of 5 1/2	"	do
3 Three	"	of 5 1/2	"	do
1 One	"	of 5 1/2	"	do
1/4 Quarter	"	of 5 1/2	"	1 Bolt
1/4 Quarter	"	of 5 1/2	"	do
1/2 Half	"	of 1	"	do
1/2 Half	"	of 1 1/4	"	do
1/2 Half	"	of 1 1/2	"	do
1/2 Half	"	of 1 3/4	"	do
1/2 Half	"	of 2	"	do
1/2 Half	"	of 2 1/4	"	do
1/2 Half	"	of 2 1/2	"	do
70 Seventy	"	of 2 1/2	"	do

For stamping printing and rolling
of plates and sheets, also for rolling
and engraving brass casings, shims,
and bits for furnaces, &c. and for
parts of a Machinery.

For casting cog wheels, &c. &c.
for the Mint and other
kinds of works for several Public
Departments and Private Est.
ments, and Shipping.

Tools.

6 Six	Forge Bellows		
1 One	Large 2 foot Poles		
2 Two	Convenient Braces with Sails, Complete		
3 Three	Large 18 inch Vices		
6 Six	Anvils		
6 Six	Tons of Pig Lead		
6 Six	Tons of Litharge		
1/2 Half	Ton of Black Flux		
1 One	Ton of Lime (Black)		
1 One	Ton of do. Sheet		
8 Eight	Tons of Sheet Copper		
1/4 Quarter	Ton of Sheet do.		
4 Four	Dozens of Iron Padlocks		
100 One	Hundred Square feet of Brass wire Cloth 10 Hole		
4 Four	Europe Rules		

For the Workshop
For four hundred lbs
In substitution of lead for
recasting of iron from the
Drops
For reducing the oxide of Copper
For preparing Brass and
other works
For annealing Tubes &c.
For alloying Gold
For drawing Bellows, Doors, and
Windows
For securing Doors and Windows
For Engine and Locomotive Boilers

Wm. St. George
Mint.
27 January 1858.

Reddell
Acting Mint Master.

Ind-Duplicate Home Branch
6/2/58.

Financial Department

No 55.

To Sir James Melville R. C. B.
Secy at the East India House.

Sir,
I am directed by the
R. H. the Governor in
Council to transmit for
submission to the Honble
the Court of Directors, the
accompanying two In-
dents for Articles and
Machinery required for
the use of the Madras
Mint - together with copy
of a letter from the Acting
Mint Master, affording
explanation of the neces-
sity of the Machines in-
dented for and request-
ing that they may be
sent out with all prac-
ticable expedition.
I Under the cir-
cumstances represent-
ed by St. Colonel Cotton,
the

From the Mint Committee
dated 28 January 1858 with
enclosures.

W. L. P.

the God would strong
urge on the Noble Court
in early compliance with
the Indents now forward
-ed.

Fort St George,
1 February 1858-3

Shane, secy



Wm. C. Smith
1/2/58

Entered in Oct 19/9/58

Indicate for Act
of 19/9/58

Dr. D. W. E. 2nd 2nd
Commercial 1858. 2nd 2nd

No 55

The Secretary at the
Ball Bridge House

of 1st 2nd 2nd 1858

9-10

9-10