M.R.O. 14—10,000—21-4-29

MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

G.O. No. 1798 Press Mis.

104-105

Dated 11-9- 1861.

Not to be folded or roughly handled

No. 104. Read the following letter from W. HUDLESTON, Esq., Secretary to the Board of Revenue, to J. D. SIM, Esq., Secretary to Government, Revenue Department, Fort Saint George, dated Chepauk, 29th August 1861, No. 4,688 :—

SIR,

In Cons. 1st August 1861, No. 4,803.

1. With reference to the Government Order in the Revenue Department, dated 31st July 1861, No. 1,526, sanctioning Rupees 14,860 for the manufacture of weights and chains for the beam scales proposed to be distributed to the several Salt Districts, I am directed by the Board of Revenue to state that they have instructed* the Collectors concerned to take steps for supplying themselves with the requisite number of triangles and platforms, as well as to submit statements of the saving that may be expected from the discontinuance of the mercals hitherto used, and of a part at least of the measuring Establishments ; but that in the mean time accompanied by Colonel Orr, the Mint Master, they have inspected the working of a Bombay pattern weighing machine supplied by him for trial at the Madras Salt Kotar, as well as of the common beam scales there available, and have agreed with him and the Deputy Collector, whose report is herewith† forwarded, that this machine is on every consideration of expedition and efficiency far preferable to scales.

* Vide Circular, 5th August 1861, No. 4,222.

† Board's Proceedings, No. 3,783, dated 17th July 1861.

2. The Board have also ascertained from the Mint Master (*Vide* letter enclosed dated 19th August 1861, No. 120), that about the same time, viz., two years, will be required for the manufacture of the weights as for the machines, which will cost about 50 Rupees each or Rupees 14,700 for 294, which is the number of scales fixed for distribution. The aggregate cost will thus fall within the sanctioned amount, and the future expense of renewing these machines which with ordinary care are not more susceptible of injury than the scales, will also probably be less than if the latter article were supplied, each of which exclusive of the complete set* of weights proposed to be furnished with, it may be roughly valued at 60 Rupees.

In Cons. 19th August 1861, N.o 5,302.

* 1 Weight of 2 Maunds = Rs. 12
4 ,, ,, 1 ,, = 24
2 ,, ,, ½ ,, = 6
42 cost of 1 set.

3. Under the above circumstances, I am directed to request the Government to modify their sanction, so far as to permit the Board to have the requisite number of machines made up at the Mint in lieu of the chains and weights required to complete the beam scales available in the Arsenal, which were not originally procured for the purpose to which the Board sought to apply them, and will doubtless be in great request in the Sea Customs and other Departments, if notice be given that they are available. Should the above recommendation be approved, early orders are requested in order that the Board may adopt measures to prevent any unnecessary expenditure in the Districts for platforms and triangles.

No. 105. ORDER THEREON, 11th September 1861, No. 1,798.

1. Under the circumstances stated, the Government authorize the substitution of weighing machines for beam scales for weighing Salt, and grant authority for the manufacture of 294 of these machines at the Mint. The advance of Rupees 14,860 already ordered in Proceedings, dated 31st July 1861, No. 1,526, for the beam scales, will be available for this work.

2. A few of these machines should be made as rapidly as possible and thoroughly tried at Madras while the entire number for general supply are being manufactured.

(Signed) J. D. SIM,
Secretary to Government.

No. 3,783.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 17th July 1861.

Read the following letter from Lieutenant-Colonel C. A. ORR, Mint Master, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Chepauk, dated Fort Saint George, 11th July 1861, No. 80 :—

1. With reference to the second paragraph of my letter of the 14th ultimo No. 54, mentioning that one of the Bombay pattern weighing Machines had been fitted with a platform in lieu of a "scuttle," and that it would be sent to the Salt department for trial, I have the honor to forward copy of a report which the Deputy Collector in charge has obligingly made to me of its comparative efficiency.

2. It will be seen that Mr. Smith gives the machine, as fitted with a platform, a decided preference over the beam scales. It will be easy to make the platforms of any required size, with weights to counterpoise 10 or 20 maunds at a time, and I see no reason why the machine should be more liable than the beam scales to get out of order if common care be taken of it.

ENCLOSURE No. 1.

From A. SMITH, Esq., Deputy Collector in charge of Salt, to Lieutenant-Colonel C. A. ORR, Mint Master, dated Madras, 5th July 1861.

1. I have now the honor to report upon the Salt weighing Machine forwarded to me for trial with your letter of the 16th ultimo, No. 56.

2. The machine, which is constructed on the plan of that lately received from Bombay, is intended for the weighment of Salt into store, and is fitted with a platform instead of a scuttle. This I consider a decided advantage; and I prefer the machine thus fitted up to the beam scale, the chains of which interfere with the rapid removal of the salt baskets from the scale. The operation of weighing with the machine is also easier; all that is requisite being to fill the baskets and place them on the platform; whereas with the beam scale, the operation is not unfrequently retarded by the upsetting of the baskets placed on the projecting ends of the planks laid crosswise on the scale to admit of a greater number of baskets being placed thereon. The cost too of the machine would, I presume, be less than that of constructing a beam scale.

3. The maximum quantity which the machine is capable of weighing at a time is six maunds; and the quantity turned out in an hour was 420 maunds inclusive of the tare of the baskets, and 386½ maunds exclusive of it, the operation having been performed seventy times within that period. Should the platform be enlarged, and the machine be made capable of weighing 12 or 20 maunds at a time, it would be proportionally more useful.

4. The only doubt I have about the machine is whether it will stand wear and tear so long as the beam scale without getting out of order; but this is a point which I presume experience alone can decide.

5. While thus recording my opinion in favor of the machine, I must at the same time declare my conviction that weighing our enormous receipts of Salt into store cannot be accomplished with the same expedition and cost as measuring.

(True Copy.)

(Signed) C. A. ORR, *Mint Master.*

The Board will inspect the working of the Platform Machine at the same time with that of the weigh-bridge, and resolve again to request the Collector to inform them when this last will be in working order.

(True Copies and Extract.)

(Signed) W. HUDLESTON,
Secretary.

To B. Cunliffe, Esq., Collector of Madras.

Copy to Lieutenant-Colonel C. A. Orr, Mint Master.

Exd. J. Wright.

Department 1861

No.

PROCEEDINGS of the BOARD of REVENUE,

Dated 17th July 1861.

No. 3,783.

Forwarding a letter from the Mint Master and requesting to be informed when the Weigh Bridge will be in working order.

Enclosure in Letter from the Secretary to the Board of Revenue to the Secretary to Government N.W.P. dated 29th August 1861 No. 4168.

Rs 2088/61

Letter from the Mint Master to the Secretary to the Board of Revenue dated 11th July 61 No. 94 forwarding the draft of Mr. Hughes Weigh Machine and requesting to be informed when the Weigh Bridge will be in working order.

No. 120

From

Lieut. Col. C. A. Orr.

Mint Master

To

W. Hudleston Esqre.

Secretary to the

Board of Revenue

Sir,

Para 1 In reply to your letter of the 13th Instant No. 4401, requesting me to state whether the Bombay Pattern Weighing Machines fitted in the proposed improved manner could be made to weigh variable quantities, without risk of damage to the machines, by simply shifting the position of the Counterpoise, and within what time and at what Cost they could be supplied, I have the honor to inform you that I see no difficulty whatever in adopting the Machine to weigh any quantity from one Maund up to twenty, or more, without any danger of injury to itself. —

&c

2. As I propose to make the flat forms of open iron gratings which will not retain on their surface any of the Salt that may be spilled from the baskets in the hurry of work, it is impossible for me to say exactly, till one or two have been made up, what each Machine will cost, but I am very confident of being able to turn them out for about Rupees 50 each. There will necessarily be some delay in making up the first few of the Machines owing to the alteration of the pattern, and to the inexperience of the extra workmen that must be specially engaged for their manufacture, and I fear that, even with the greatest exertion, the Foundry Cannot be relied on for the supply of Castings for more than three Machines complete per week. At this rate the whole number could not be finished in much less than two years, but on the other hand nearly that space of time would

probably be required to cast and properly adjust so many as 1596 weights of sizes for Beam Scales.

I have &c.

Fort St. George
Mint 19th August 1861

(Signed) C. A. Orr
Mint Master.

(True Copy)

Secretary

4

supplied each of which exclusive of the
complete set of weights proposed to be
furnished with it may be roughly valued
at 60 Rupees.

3. Under the above circumstances
I am directed to request the Government
to modify their sanction so far as to per-
mit the Board to have the requisite num-
ber of Machines made up at the Mint in
lieu of the Chains and Weights required to
complete the Beam Scales available in the
Arsenal which were originally procured
for the purpose to which the Board sought
to apply them and will therefore be pro-
great request in the Sea Customs Depart-
other Departments, if notice be given that they
are available. Should the above recommenda-
tion be approved early orders are requested on
order that the Board may adopt measures
to prevent any unnecessary expenditure on
the Districts for Platforms and triangles.

I have the honor to be,
Sir
Your most obedient Servant
[signature]
Secretary.

To J. D. Sim Esq
Secretary to Government
Fort William Calcutta

Revenue Board Office,
Chepauk,
29th August 1851.

Weight of 20 lbs = 12
" " 1 " = 24
" " 1/2 " = 6
42 cost of 1 set

1867 Dispatch

Enclosure 2 in a letter from
the Secretary to the Board
of Revenue to the Assistant
to Government C.P. dated
29th August 1851 No 1088.

No 2088/65

Letter from the Assistant
Master to the Board of Re-
venue dated 19th August 1
1851 No 120. regarding sale weights
any Enquiries

104 & 105

Rec'd 15th Department
Proof Govt. for Septr.

No 2088

From
The Secretary to the
Board of Revenue
To
The Secretary to Government
Revenue Department

Dated 29th
Rec'd 29th August 1857
Rec'd 30th
B.P.

No 4088

Requesting permission to apply the sum sanctioned for Weights and Scales, to the manufacture of Weighing Machines which the Board propose to distribute, in lieu of the Beam Scales.

Rec'd 1798. 11th Septr

William Oakes

Rec'd 1st 1798

Under the circumstances stated the Govt authorize the substitution of Weighing machines for Beam scales for weighing salt 4th grant authority for the manufacture of 2 gh of these machines at the Mint. The advance of Rs 11,860 already ordered in Proceedings dated 31st July 1857, No 2156 for the Beam scales will be applicable to this work.

2. A few of these machines should be made as rapidly as possible and thoroughly tried at Madras when the entire number for general supply is being manufactured.

11 Copies
13th of Revr Circ 27th
3. Mint Master
3. Asst Govt
3. Asst Treasurer
3. Civil Paymaster

Pro. Bd of Rev 28 July 62
& No 2154 in Pro.

Forwd Rec'd 7th Augt 62
No 3101

No 104 & 105.

Rec 5 Septr 62.