M.R.O. 14—10,000—21-4-22

MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

G.O. No. 147	Press ~~Mis.~~
290-291	
Dated 30. 1. 1862.	

Not to be folded or roughly handled

Proceedings of the Madras Government, Revenue Department, 30th January 1862.

No. 290. Read the following Proceedings of the Board of Revenue, dated 14th January 1862, No. 341:—

Read the following letter from Lieutenant-Colonel C. A. ORR, Mint Master, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Chepauk, dated 7th January 1862, No. 243.

SIR,

1. With reference to the Proceedings of the Board of Revenue of the 24th December 1861, No. 7,227, forwarding for my opinion a copy of the Proceedings of Government in the Revenue Department, under date the 21st idem, with the Order thereon, No. 2,340, on the subject of the Platform Balances for weighing Salt which are being made up in the Mint, I have the honor to state that, if the Foundry at Bowlaishwaram be in use, the several portions of the frames of the Machines may very easily be cast there, but that I have doubts whether the work of fitting the Machines up, with the nicety and correctness which are essential to true weighments, can be performed there without the aid of specially trained workmen, such as there are only a few of even in the Mint, who understand the principles of the construction of a weighing balance.

2. There have been two causes for the delay which has occurred in completing the first of the Machines. One was the great difficulty of designing an arrangement which, without immensely increasing the weight of the Machine, would enable it to weigh variable quantities, from 1 to 20 maunds, by simply shifting the position of the weight on the lever; and the second was that, as it is necessary to make the platforms open gratings which will not retain on their surfaces the Salt that may be spilled, and which at the same time shall be light, it was not easy to devise a pattern from which castings could be made that it did not break from the shrinkage of the metal in cooling, or that were not liable to fracture on sudden changes of temperature, as on the occurrence of rain after great heat. It was only after the third trial that a pattern that answers could be finally adopted, and thus much time was lost, but at last four Machines are completed and have this day been sent to the Salt Kotars, with a request to the Superintendent to have them fairly tried, and to report the result to the Board. Four more Machines will be finished in a few days, and I hope to be able to have them turned out henceforth at the rate of three per week.

3. Each platform is 4½ feet square, and the whole Machine weighs 650 lbs. I forward a drawing, as requested in your Memorandum of the 20th ultimo, and being now able to estimate the cost correctly, I beg to inform you that it will be about Rupees 60 for each Machine.

4. I cannot say whether it would be advantageous to have the Machines ordered from England, but from my experience of the time required to have indents complied with, I do not think much delay will be obviated by taking that course.

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1. Ordered to be submitted for the information of Government, with reference to their Proceedings quoted by the Mint Master.

2. Colonel Orr is now able to state that the cost will be Rupees 60 per Machine, and he trusts to turn them at the rate of three per week.

3. The total number allowed by the Board was 294, and the estimate sanctioned by Government (under the original proposition to supply scales) exclusively for weights and chains, the triangles and platforms to form a separate charge for which the Collectors were to submit Estimates, and the Iron Beams being available at the Grand Arsenal, amounted to Rupees 14,860.

G. O. No. 1,526, dated 31st July 1861.

4. The supply of the Machines as expected by Colonel Orr, will be complete in twenty-two months, and the total cost will be (294×60) Rupees 17,640, or only 2,780 Rupees in excess of the Estimate for weights and chains alone under the original proposition to supply Scales.

5. It will be highly desirable to manufacture an additional number for retention in Store to meet further requirements resulting from extension of trade and to re-place damaged Machines, and as at a very moderate estimate there is a saving of Rupees 18,228 as shown in the margin, in the total cost between the supply of Scales as proposed and of the Machines now being constructed which would cover the cost of 303 Machines beyond the limited number to which the Board reduced the requirements of the Collectors, the Board recommend that sanction be accorded for the manufacture of 100 Machines in excess of the original number, or of 394 altogether.

	Rs.
Assumed value of each Beam available at the Arsenal.	15
1 Triangle with platforms (calculated on the average of the Estimates received from the Collectors of Madras, Ganjam and Vizagapatam	48
1 Set of 8 Chains as per Estimate of Superintendent Gun Carriage Manufactory	17
1 Set of Weights as per Estimate of Mint Master.. ..	42

				Total Cost. Rs.
1 Scale complete...	122	× 294	=	35,868
1 Machine do. ..	60	× 294	=	17,640
		Saving..		18,228

Rs. 18,228 / Cost of 1 Machine = 60 = 303 Machines.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, *Secretary.*

No. 291. ORDER THEREON, 30th January 1862, No. 147.

1. The Government approve of a reserve of Weighing Machines, but as the number required for actual use cannot be made in less than twenty-two months the matter can be re-submitted hereafter for final sanction.

2. The Board will be careful to make the necessary provision in their Budgets.

(Signed) C. G. MASTER,

Deputy Secretary to Government.

Pro: 31 July 62 N° 140-141
" 21 Dec^r " 199-200.

Pro. B. of Rev^e 28 July 62
& N° 215 th in Pro.

N° 290 & 291.

C 23 Jan^y 62 R 28th

Rev^e 1862 Depart^t
Pro: of Gov^t for January 62
N° 127.

Proceedings of the Board
of Revenue

Dated 14 January 1862
Desp^d 14
Rec^d 15
E. I. & I Com.
N° 341.

N° 147 - 30 Jany:

Submitting letter from
Mint Master relative to
the Construction of Salt
weighing Machines, and
requesting Sanction for
the Manufacture of 100
of these Machines in Excess
of the Original number,
or of 39 altogether —

With an Order

Fort St George
30th Jany 1862

N° 147.

The Govt. observe
of a reference of
weighing
~~100~~ Machines such
as the number
required for ac-
tual use cannot
be made in less
than 22 months
the matter can be
referred hereafter
for final sanction.

The Bd will be
careful to make
the necessary pro-
vision in their
Estimate.

I. D. S.