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(1) Number of pages 20

(2) Date of repair 24.8.38

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Financial DEPARTMENT.

G.O. No. 475	Press Mis.
50-51.	
Dated 28-10-1867.	

50-51 11/12

Not to be folded or roughly handled

Proceedings of the Madras Government, Financial Department,
28th October 1867.

No. 50. Read the following letter from Assistant Surgeon H. E. BUSTEED, M. D., Acting Assay Master, to the Mint Master ; dated Madras, 15th October 1867, No. 98.

In accordance with the Government Order, dated 8th October, directing me to submit through you such suggestions as I may have to offer in regard to the measures to be taken for introducing the Chloride process of assay into this Mint, I beg to observe as follows :

The chief difference of any importance between the establishment recommended by me and that suggested by the Calcutta Assay Master is that, while I (adopting Dr. Shaw's views) made the increase of salaries immediate, he makes them prospective.

Acting on this principle, I now beg to submit a modified estimate* of establishment, which will be seen to differ but little practically from that suggested by the Calcutta Assay Master, and which will, I think, fairly meet the end in view.

* Vide Appendix A.

2. The cost of the present establishment, it will be seen, is Rupees 484½ monthly, while that of the one with which I propose to *start* the new process will be Rupees 491½ ; to this there will, after two years' work and experience, be a monthly increase of Rupees 30, and after six years a monthly increase of Rupees 80. In general terms, the cost of the establishment some years hence, at its highest contemplated point, will be Rupees 591½.

3. The only additional Assistant that I estimated for is a Laboratory Apprentice ; for the reasons urged in my letter of the 7th March, I think it essential that there should be some one training up in the office to succeed to the two higher posts. The Calcutta Assay Master, I observe, says nothing about a prospective increment to the apprentice's pay, but I very much doubt that the class of lad which I think ought to be in the Laboratory can be had in Madras for a *fixed* salary of Rupees 25 ; without a trifling yearly increase, it is highly probable that he would seek more remunerative employment, after we had the trouble of teaching him, and he was just about to become useful.

4. The present Maistry Fireman gets Rupees 28 monthly, but he is old and infirm, and is desirous of getting his pension. His successor's pay under the proposed arrangement, will only be Rupees 15, as the furnace work will be very much diminished.

5. Since my letter of the 7th March last, recommending the introduction, I have taken every opportunity in my power of employing the subordinates at the Chloride process, confirming our results by our ordinary routine of cupellation assays ; and I am glad to say that all have shown considerable aptitude for the delicate manipulation—indeed, two or three of the seniors are already so familiar with the laboratory work that I anticipate very little trouble in the complete introduction. The chief precaution necessary will be to advance slowly—sudden changes are not judicious, especially where one is working much with Native Agency. I propose then first to report the public silver (ingots for coinage) by the Chloride process, and then gradually, when greater dexterity and quickness are attained, the coins and the merchants' bullion, till finally (probably in six months) we will be able to dispense altogether with the old dry method.

6. I still adhere to my former suggestion (which I observe is also urged by the Calcutta Assay Master) that some suitable person should be sent up from here to the Calcutta Mint. I again recommend that Mr. John Duarte, the present Manager of the Assay Office, be deputed, I cannot say to "learn" the mode of Assay which prevails there, because he has learned it already, but to see it worked on a large scale : it is an opportunity which it would be injudicious not to avail ourselves of.

7. Owing to Mr. Duarte's knowledge of the process already, I think five or six weeks stay at the Calcutta Mint would be ample opportunity for him, and that his absence from his duties here need not exceed two months in all. I think in January next, on the opening of the Calcutta Mint after the Christmas holidays, would be the best time for him to commence his stay there. Should Government be pleased to concur in my views on this point, I beg that leave of absence on full pay

for two months, with a free passage by the first opportunity in January (and free return passage also), be granted him.

8. I anticipate little or no increase of expense on the score of apparatus, as we are already very fairly provided.

APPENDIX A.

Assay Office.

Present Scale.	RS.	A.	P.	Proposed Scale.	RS.	A.	P.	Increase per month. RS.	A.	P.
1 Head Accountant and Manager	200	0	0	1st Assistant and Head Accountant	a200	0	0			
1 Deputy do.	70	0	0	2nd do. and Deputy do.	b 70	0	0			
1 Writer	30	0	0	Head Writer	30	0	0			
1 Do.	25	0	0	2nd do.	25	0	0			
1 Do.	14	0	0	3rd do.	14	0	0			
1 Moochie	12	0	0	Moochie	12	0	0			
3 Peons, 7 Rupees each	21	0	0	3 Peons, 7 Rupees each	21	0	0			
1 Superintendent of Musters	30	0	0	Head Weighing man, or Superintendent of Musters	c 35	0	0			
1 Assistant do.	15	0	0	Assistant do.	15	0	0			
1 Head Fireman	28	0	0	Apprentice	d 25	0	0			
1 First Assistant	10	0	0	1 Laboratory man and Fireman	15	0	0			
1 Second do.	8	0	0	2nd do.	8	0	0			
1 Third do.	7	0	0	3rd do.	7	0	0			
1 Flattening man	10	0	0	Hammerman	10	0	0			
1 Sweeper	3	8	0	Sweeper	3	8	0			
1 Scavenger	1	0	0	Scavenger	1	0	0			
Total...	484	8	0	Total...	491	8	0	7	0	0

a.—Rising by increase of *Rupees* 10 *monthly every second year to* 250 *Rupees.*

b.—Rising as above *to* 100 *Rupees.*

c.—This man's work will be much increased ; he is, moreover, an old and hard working servant—hence, the suggested *increase of* 5 *Rupees.*

d.—Rising by increase of *Rupees* 5 *monthly every year to* 45 *Rupees.*

(Signed) H. E. BUSTEED,
Acting Assay Master.

Submitted to Government for sanction, in accordance with Order in the Financial Department, No. 454, 8th October 1867.

(Signed) J. CARPENDALE,
Mint Master.

15*th October* 1867.

No 51. ORDER THEREON, 28th October 1867, No 475.

The Governor in Council resolves to sanction the establishment proposed by the Officiating Assay Master for introducing the Chloride process of assay in the Mint at Madras, and directs that the process be carried out in the manner suggested by Dr. Busteed in the 5th paragraph of the foregoing letter.

2. It is observed that the additional cost of the establishment for the present will not exceed seven Rupees per mensem, while the ultimate increase, in consequence of annual increments to the salaries of the Head Accountant and Manager, Deputy Accountant, and Apprentice, will be Rupees 107, and the aggregate cost of the whole office establishment will be eventually raised from Rupees 484½ to Rupees 591½ per mensem.

	RS.
Present	484½
Proposed...	491½
Rupees...	7

3. The Governor in Council approves of Dr. Busteed's proposition to send Mr. Duarte, the Manager of his Office, to Calcutta, in January next, to observe the working of the Chloride process of assay on an extended scale in the Mint there. Mr. Duarte will draw his full salary during his absence from Madras, and will be provided with a free passage to and from Calcutta.

4. A copy of these Proceedings will be transmitted to the Government of India, in reference to their Secretary's letter, dated the 17th ultimo, No. 2586.

(True Extract).

Chief Secretary.

To the Mint Master.
,, Accountant General.
,, Examiner of Claims.

Exd. J. H. Burns.

No 98

Fort St. George,
H. M. Assay Office,
15th October 1867.

From,

H. E. Busteed Esq.
Ag. Assay Master.

To,

Colonel J. Carpendale R. E.
Mint Master.

Sir,

Para 1. In accordance with the Government Order dated 8th October, directing me to submit through you, such suggestions as I may have to offer, in regard to the measures to be taken for introducing the Chloride process of assay into this Mint, I beg to observe as follows:

The chief difference of any importance between the Establishment recommended by me and that suggested by the Calcutta Assay Master is, that while I adopting Dr Shaw's views) made the increase of Salaries immediate, he makes them prospective.

Acting on this principle, I mo-

beg

beg to submit a monthly Estimate of Establishment, which will be seen to differ but little practically from that suggested by the Calcutta Assay Master, and which, will I think fairly meet the end in view.

2. The cost of the present establishment it will be seen, is Rs 484½ monthly, while that of the one which I propose to start the new process, will be Rs 491½; to this there will after two years work and experience be a monthly increase of Rs 30, and after 6 years a monthly increase of Rs 80. In general terms, the cost of the Establishment some years hence at its highest contemplated point, will be Rs 591½.

The only additional Assistant that I estimate for, is a Laboratory Apprentice; for the reasons urged in my letter of the 7th March. I think it essential that there should be some one training up in the Office to succeed to the two higher posts. The Calcutta Assay Master I observe, says nothing about

vide Appendix B

about a prospective increment to the Apprentice's pay, but I very much doubt that the class of lad which I think ought to be in the Laboratory, can be had in Madras for a fixed salary of Rs 25; without a trifling yearly increase, it is highly probable that he would seek more remunerative employment, after we had the trouble of teaching him, and he was just about to become useful.

4. The present Maistry Foreman gets Rs 28 monthly, but he is old and infirm and is desirous of getting his pension. His successor's pay under the proposed arrangement, will only be Rs 15; as the furnace work will be very much diminished.

5. Since my letter of the 7th March last recommending the introduction, I have taken every opportunity in my power of employing the subordinates at the Chloride process, confirming our results by our ordinary routine of cupellation assays; and I am glad to say, that all have

shown

shown considerable aptitude for the delicate manipulation, & indeed two or three of the seniors are already so familiar with the laboratory work, that I anticipate very little trouble in the complete introduction; the chief precaution necessary will be, to advance slowly & sudden changes are not judicious, especially where one is working much with native Agency; I propose then first to report the fusion Silver (ingots for Coinage) by the Chloride process, and then gradually, when greater dexterity & quickness are attained, the Coins and the Merchants' Bullion, till finally (probably in six months) we will be able to dispense altogether with the old dry method.

6. I still adhere to my former suggestion (which I observe is also urged by the Calcutta Assay Master) that some suitable person should be sent out from here to the Calcutta Mint. I again recommend that Mr Jotan Duarte the present Manager of the Assay Office be deputed. I cannot say

say to "learn" the mode of assay which prevails there, because he has learned it already, but to see it worked on a large scale: it is an opportunity which it would be injudicious not to avail ourselves of.

7. Owing to Mr Duarte's knowledge of the process already, I think 5 or 6 weeks stay at the Calcutta Mint would be ample opportunity for him and that his absence from his duties here, need not exceed two months in all. I think in January next, on the opening of the Calcutta Mint after the Christmas holidays, would be the best time for him to commence his stay there. Should Government be pleased to concur in my views on this point, I beg that leave of absence on full pay for two months with a free passage by the first opportunity in January (and free return passage also) be granted him.

S. I

8. I anticipate little or no increase of expense on the score of Apparatus as we are already very fairly provided.

I have the honor to be,
Sir,
Your most obedient Servant,

J. E. Bustead
Ag. Assay Master.

Submitted to Government for Sanction in accordance with Order in the Financial Department No. 454 8th October 1867.

15th October 1867.

J. Underdale
Mint Master

1867. Dept.

From
The Ag. Assay Master

To
The Mint Master
Fort St. Geo.

Dated 15th
Rec'd 18 3 Oct 1867.

1 Enclosure

No 489.

Forwards for submission to Government an Estimate of the proposed Establishment required for the introduction of the Chloride process in the Madras Assay Office, with suggestions thereon in accordance with the Order of Government dated 8th October 1867.

Pro 8th Oct 67 19–20
18 June 68 44–45
Finl. Lr. to Engr. 21st March 1868 No. 7

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Appendix A.

Public Department

154

For estimated Expenditure

Years	Revenue Charges Ordinary	Revenue Charges Extra ordinary	Total Ordinary	Total Extra ordinary	Total Revenue Charges	Net Surplus	Net Deficit

Extract from Home Department Government of India.

No. Date.

Office to what the proposition refers

Nature of Charges. Present Scale.		Proposed Scale.		Proposition Permanent Increase per month	Proposition Permanent Decrease per month	Proposition Temporary Increase per month	Proposition Temporary Decrease per month	Period of Temporary Increase or Decrease	Grounds of Proposition.	Local Government recommendation	Orders of the Government of India Home Dept. Remarks	Orders of the Government of India Financial Department Remarks & Orders
1 Head Accountand Manager	200 . .	1st Assistant & Head Accountant	700 . . a									
1 Deputy do	70 . .	2nd do & Dy do	70 b . .									
1 Writer	30 . .	Head Writer	30 . .									
1 Do	25 . .	2nd do	25 . .									
1 Do	14 . .	3rd do	14 . .									
1 Moochie	12 . .	Moochie	12 . .									
3 Sons of Beach	21 . .	3 Sons of Beach	21 . .									
1 Supt of Musters	30 . .	Head Weighingman or Supt of Musters	35 c . .									
1 Asst do	15 . .	Assistant do	15 . .									
1 Head Fireman	28 . .	Apprentice	25 d . .									
1 First Asst	10 . .	1 Laboratoryman and Fireman	15 . .									
1 Second do	8 . .	2nd do	8 . .									
1 Third do	7 . .	3rd do	7 . .									
1 Blacksmith	10 . .	Hammerman	10 . .									
1 Sweeper	3 8 .	Sweeper	3 8 .									
1 Scavenger	1 . .	Scavenger	1 . .									
	484 8 .		4918 .									

7

a Rising by annual increase of Rs 10 monthly every second year to 750 Rupees

b Same as above to 100 Rupees

c This head workman to be much encreased as his numerous staff and hard working servants know the duties by increase of Rs

d Rising by annual increase of Rs 10 monthly every year to 45 Rupees

For the introduction of the Chloride process of Assay.

H. E. Boutcher
Actg. Assay Master

Financial Department

17

PROCEEDINGS of the MADRAS GOVERNMENT

Read the following letter from the Acting Assay Master.

Mint letter 15 Oct 1867 No 98.

Order thereon 28 October 1867 No 475

The Governor in Council resolves to sanction the establishment proposed by the Offg Assay Master for introducing the Chloride process of Assay in the Mint at Madras, and directs that the process be carried out in the manner suggested by Dr Bustead in the 5th paragraph of the foregoing letter.

2. It is observed that the additional cost of the Establishment for the present will not exceed Seven Rupees per mensem, while the ultimate

Present Rs 484 1/2
Proposed — 491 1/2
Rs 7.

Fin. L. Proc. 28 October 1867
No 52

Fin. L. Letter to Govt 21st Nov. 1868 No 2

ultimate increase, in consequence of annual increments to the salaries of the Head Accountant and Manager, Deputy Accountant and Apprentice, will be Rs 107, and the aggregate cost of the whole office will hereafter be establishment, raised from Rs 484½ to Rs 591½ per mensem.

3. The Governor in Council approves of Doctor Busteed's proposition to send Mr Duarte, the manager of his office to Calcutta, in January next, to observe the working ~~of~~ of the Chloride process of Assay on an extended scale in the Mint there. Mr Duarte will draw his full salary during his absence from Madras and be provided with a free passage to and from Calcutta.

4. A copy of these Proceedings will be transmitted to the Government of India, in reference to their Secretary's letter dated the 17th ultimo No 2506.

To the Mint Master.
" Accountant Jeweller
" Examiner of Claims.

Mar. 1867. Department.

No. 475

PROCEEDINGS OF GOVERNMENT.

Dated 28 October 1867