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(1) Number of pages 22
(2) Date of repair 1-9-38
(3) Initials of the Referencer CP

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	327	Press Mis.
Dated	10-5-18 38.	

Not to be folded or roughly handled

11/9/38

29th MAY 1888, No. 44, REVENUE.

REVENUE DEPARTMENT.

To

THE ASSISTANT UNDER SECRETARY OF STATE FOR INDIA.

SIR,

I am directed to forward, herewith, in duplicate, an indent for certain apparatus and chemicals required for making sulphate of quinine and to request that the Right Honorable the Secretary of State will be pleased to issue instructions

Miscellaneous.

for their very early supply direct to the Government Botanist and Director of the Government Cinchona Plantations, Nilgiris. I am also to request that the wishes of Mr. Lawson, as expressed in his letter, dated 2nd instant, which is embodied in the order * (copy enclosed) sanctioning

* Dated 10th May 1888, No. 327, Revenue. the indent may, as far as possible, be complied with. The articles may be sent either to Madras or Beypore according as facilities offer.

2. The cost of the apparatus and chemicals will be debited to Provincial funds.

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) J. F. PRICE,
Secretary to Government.

OOTACAMUND,
29th May 1888.

Exd. P. L. Pereira.

FORT SAINT GEORGE.

REVENUE (1888) DEPARTMENT.

(Copy.)

LETTER to the Assistant Under
Secretary of State for India.

Dated 29th May,

No. 44 of 1888.

FORWARDING an indent for certain apparatus and chemicals required for the manufacture of sulphate of quinine, and requesting to arrange for their very early supply direct to the Government Botanist and Director of Government Cinchona Plantations, Nilgiris.

10TH MAY 1888, No. 327, REVENUE.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—again the following G.O., dated 27th April 1888, Mis. No. 2500, Revenue :—

Read—the following letter from M. A. LAWSON, Esq., Government Botanist and Director of Government Cinchona Plantations, Nilgiris, to the Secretary to Government, Revenue Department, dated Ootacamund, 9th April 1888, No. 3 :—

I have the honor to inform you that, in accordance with the instructions contained in G.O., No. 948, dated 9th February 1888, Revenue, Mr. Hooper, the Quinologist, visited the Bengal Government Cinchona Plantations, with the view of making himself acquainted with the methods there adopted of manufacturing the crystallised sulphate of quinine.

2. On his way through Calcutta he saw the Honorable Colman Macaulay, Sir Benjamin Simpson, and Dr. King, and afterwards at Mungpoo he stayed with Mr. Gammie. All these gentlemen gave him every assistance in their power, and the result has been that he has obtained much valuable information, which could not have been acquired from any other source in India; and I beg specially to record my gratitude for the generosity with which this assistance has been given by the several officers of the Bengal Government to this department.

3. We had already made febrifuge on the Nilgiris, of two different kinds, on a small scale, and also the sulphate of quinine in the laboratory; but we were in some perplexity as to how we might best turn out the latter commodity in large quantities economically. This perplexity has now been solved, through the abovementioned courtesy of the officers of the Bengal Government, and I have no hesitation in saying that we at last see our way, at a comparatively small outlay, to make not only the febrifuge (liquid and solid), but also the sulphate of quinine.

4. The additional cost for plant which will be required, I estimate as follows :—

	£.
A donkey or half-horse power engine and boiler, say ...	100
Six pans with vacuum apparatus and six loose, say ...	50
Caustic soda ...	45
Kerosine oil ...	52
Fusel oil ...	50
Sulphate of soda ...	7
Plaster of Paris ...	3
Hogsheads ...	43
Fixing of plant and other unforeseen expenses ...	150
Total ...	500

or £500 in all = Rs. 7,058.

5. The chemicals thus provided would work up 100,000 lb. of bark, and ought to produce from 3,500 to 4,000 lb. of sulphate of quinine alone; but in addition to this there would be a large amount of the other alkaloids also turned out.

6. Taking the sulphate of quinine only at Rs. 25 per pound (that is the value of it fixed by the Bengal Government), the recoupment would be something between Rs. 87,500 and Rs. 1,00,000.

7. As I feel convinced that the figures, which I have given above, will be found to approximate closely to what will be actually required for each article, I will ask Government to sanction this additional outlay; which outlay, I believe, I can meet entirely, or nearly so, from the Quinologist's contingencies of Rs. 3,800, and savings, which I hope I may be able to effect during the year.

8. If Government sanction these propositions, I will send in the ordinary indents, through the Accountant-General, at once, as time is pressing, and under the most favorable circumstances I could not expect to receive from England the necessary chemicals under six months.

Order—dated 27th April 1888, Mis. No. 2500, Revenue.

The Government approve of the proposed outlay, but if it is found later on that it is probable that the proposed outlay cannot be met from the sources pointed out by the Director, timely notice of this must be given in view to an application for additional funds being made to the Financial Department.

(True Extract.)

(Signed) J. F. PRICE,
Secretary to Government.

To the Government Botanist.
„ the Accountant-General.

READ—also the following letter from M. A. LAWSON, Esq., Government Botanist and Director of Government Cinchona Plantations, Nilgiris, to the Secretary to Government, Revenue Department, dated Ootacamund, 2nd May 1888, No. 13:—

With reference to G.O., No. 2500, of 27th April 1888, Revenue, I have the honor to forward herewith the usual indents for certain apparatus and chemicals which are required by this department for the manufacture of sulphate of quinine.

2. The exact cost of the engine, enamelled pans and steam jacket I am not able to give; but I believe that £150 will be about what they will cost. I have to request that the engine, steam jacket and pans may be obtained from Messrs. Brinjies, Goodwin and Co. of Whitechapel Engine Works, Fieldgate Street, London.

3. The caustic soda and sulphate of soda can be had of any manufacturer of those articles.

4. The fusel oil is made chiefly in Germany and America, but I do not know the name of any of the manufacturers. I have put the 1,500 lb. of fusel oil in my indent at £50, but some time ago it was selling at 100 lb. per 1£. This would make the 1,500 lb. cost only £15, but the price has, since this quotation, been, I have reason to believe, greatly raised.

5. I should be obliged if the Secretary of State may be requested to send out all these things as expeditiously as possible, for until I receive them and get the apparatus fixed, it will not be possible to turn out any quinine.

6. I further ask that the engine, steam jacket and pans may be sent out, independent of the chemicals, as these will take some time to fix and fit up. They might therefore be despatched by steamer either to Madras or Beypore, the latter being the most convenient port for this neighbourhood. The fusel oil will have, I believe, on account of its supposed inflammability, though this is erroneous, to be transported in a sailing vessel.

P.S.—I should be obliged if Messrs. Brinjies, Goodwin and Co. would send plans detailing the manner in which the separate parts of the engine, steam jacket and pans should be put up, as I have only a native carpenter to execute the work.

ORDER—dated 10th May 1888, No. 327, Revenue.

Miscellaneous.

The indent is approved and will be transmitted to the Right Honorable the Secretary of State for favor of early compliance.

2. The entry in column 2 of the indent should be simply "Provincial." The detailed head to which the cost is chargeable need not be specified; nor also the reason for leaving column 3 blank, it being understood that this column would not be filled in if the charge was not debitable to Imperial revenues.

(True Extract.)

(Signed) J. F. PRICE,
Secretary to Government.

To the Government Botanist.
„ the Accountant-General, with indent.

Exd. P. L. Pereira.

45 Copies.

879/10

Original

Govt. of (1888) Madras.

REVENUE.

2. C. 2. 3595/58. 180.6. 88. 3564
C. 2. 6/12/58. 139.84. 626

Issued

Recd.

Encl.

G.O., 10th May 1888, No. 327.

MAY.

Indent

for certain apparatus and chemicals required for the manufacture of sulphate of quinine, approved with remarks and ordered to be forwarded to the Secretary of State.

No. 3

Director's Office
Cotacamund 9 April 1888.

9x71

From Mr. A. Lawson Esq
Govt. Botanist and Director
of Govt. Cuchina Plantations
Nilgiris

To,
The Secretary to Government
Revenue Department
Cotacamund

Sir,

I have the honor to inform you that in accordance with the instructions contained in G.O. No. 948 dated 9 February 1888. Revenue. Mr. Hooper, the Duinologist, visited the Bengal Government Cuchina Plantations with the view of making himself acquainted with the methods there adopted, of manufacturing the crystallised sulphate of quinine.

2. On his way through Calcutta, he saw the Honorable Colman Macculay, Sir Benjamin Simpson, and Doctor King, and afterwards at Muzpro, he stayed with Mr. Gammar - all these gentlemen gave him every assistance in their power, and the result has been that he has obtained much valuable information, which could not have been acquired from any

any other source in India - and I beg specially to record my gratitude for the generosity with which this assistance has been given, by the several Officers of the Bengal Government to this Department.

3. We had already made febrifuge on the Nilgiris, of two different kinds, on a small scale, and also the sulphate of quinine in the Laboratory; but we were in some perplexity as to how we might best turn out the latter commodity in large quantities & economically. This perplexity has now been solved, through the above mentioned courtesy of the Officers of the Bengal Government, and I have no hesitation in saying that we at last see our way, at a comparatively small outlay, to make not only the febrifuge (liquid and solid), but also the sulphate of Quinine.

4. The additional cost for plant which will be required, I estimate as follows:-

A donkey

A donkey or half horse power 2
Engine and boiler say - £ 100 - - - 11x
6 Pans with vacuum apparatus
and six loose say - 50 - - -
Caustic Soda - 65 - - -
Kerosine oil - 52 - - -
Fuel oil - 50 - - -
Sulphate of Soda - 7 - - -
Plaster of Paris - 3 - - -
Hogsheads - 43 - - -
Fixing of plant and other
unforeseen expenses - 150 - - -
£ 500 - - -

or £ 500 in all = Rupees 7,058.

5. The chemicals, thus provided, would work up 1,00,000 lbs of bark, and ought to produce from 3,500 to 4,000 lbs of sulphate of Quinine alone, but in addition to this there would be a large amount of the other alkaloids also turned out.

6. Taking the sulphate of Quinine only at Rupees 25 per pound, (that is the value of it fixed by the Bengal Government), the recompense would be something between Rs 87,500 and Rs 1,00,000.

7. As I feel convinced that the figures, which I have given above, will be found to approximate closely

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read

Cuo 2513.

f m

order. No 2500 of 27 Sep 88.

The Govt approve of the proposed outlay, but if it is found later on that it is probable that the proposed outlay cannot be met from the sources pointed out by the Director, kindly advise of this must be given in view of an application for additional funds being made to the Fed. Sept. 25/4/88.

Note.

It does not seem necessary to get the Chief Secretary's counter-signature to this.

To

The Govt Botanist }
Asstt General }
3/11/78

Closely to what will be actually required for each article, I will ask Government to sanction this additional outlay; which outlay, I believe, I can meet entirely, or nearly so, from the Lunological Contingencies of Rs 3800 and savings which I hope I may be able to effect during the year.

8. If Government sanction these propositions, I will send in the ordinary Indents, through the Accountant General, at once, as time is pressing, and under the most favorable circumstances, I could not expect to receive from England the necessary chemicals under six months.

I have the honor to be
Sir
Yours most Obedt Servant
M. A. Lawson
Govt Botanist and
Director

2-2-88 no 948
27-2-88 no 1346

Revenue Dept.
Revenue (1888) Circular
No 2513.



From
Mr. A. Lawson Esq
for the Assistant
and Director of
Cinema & Photo
of W. Nilgiris
The Secretary to Govt
Revenue Department
Chacommund

No 3
Dated 9 April 1888
And 10 April 1888

En
Subject

Manufacture of Crystallized Sulphate of Quinine on the Bengal System.

As per reason and request sanction to an additional outlay of Rs 705/- for purchase of plant and chemicals to admit of the — and state that the outlay will be met partly from savings expected to be effected during the year and partly from the sum allotted for contingencies of the Sanitary Department.

For orders
It is submitted that the Director's proposal shd. be accepted. This will involve no further allotment of funds apparently. It is believed that the process of manufacture of sulphate of quinine is an entirely new one discovered by Dr King.

has
16 Apr

The Calcutta Gazette contains an account of the process is submitted. If any further allotments to here after found necessary the Govt. Dept. will no doubt find the money that would be required.

In
18/4/88

x with Q no 2514.

I fully approve of the proposed outlay
PPT
24 Apr
21 Apr

C 20/4 C 23/4
R 21/4 R 24/4

12/4

PTO

No 13

Director's Office
Chacommund 2 May 1888
17x P4

From

Mr. A. Lawson Esq
Govt Assistant and Director
of Cinema & Photo
Nilgiris
The Secretary to Government
Revenue Department
Chacommund

Sir

With reference to G.O No 2500 of 27 April 1888 - Revenue - I have the honor to forward herewith the usual indents for certain apparatus and chemicals, which are required by this Department, for the manufacture of sulphate of Quinine.

2. The exact cost of the engine, enamelled pans, and steam jacket, I am not able to give; but I believe that £150 will be about what they will cost. I have to request that all the engine, steam jacket, and pans may be obtained from Messrs Brinjies Goodwin & Co of Whitechapel Engine Works Fildgate Street London.

3. The caustic Soda and Sulphate of Soda can be had of any manufacturer of those articles.

The

The fuel oil is made chiefly in Germany and America, but I do not know the name of any of the manufacturers. I have put the 1500 tbs of fuel oil in my indent at £50, but some time ago, it was selling at 100 tbs per one pound (1£). This would make the 1500 tbs cost only £15, but the price has, since this quotation, been, I have reason to believe, greatly raised.

5 I should be obliged, if the Secretary of State may be requested to send out all these things, as expeditiously as possible, for until I receive them, and get the apparatus fixed, it will not be possible to turn out any quinine.

6 I further ask that the engine, steam jacket, and pans, may be sent out, independent of the chemicals, as these will take some time to fix and fit up.

They might therefore be despatched
Very

19x
by steamer either to Madras or P^o Beypore - the latter being the most convenient port for this neighbourhood. The fuel oil will have, I believe, on account of its supposed inflammability - though this is erroneous - to be transported in a sailing vessel.

I have the honour to be

Sir

Your most Obedt Servant

M A Lawson.

Gt & Mr. Austin and
Directors

29

P.S. I should be obliged if Messrs B. & Co 2^d would send plans detailing the manner, in which the separate parts of the engine, steam jacket, & pans should be put up, as I have only a native carpenter to execute the work.

M A L.

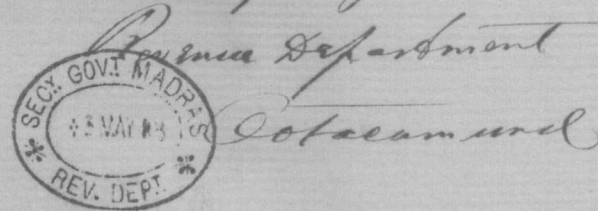
Revenue Dept.
Resume 1888 Cinchona.

From No 3060

M. A. Lawson Esquire
Govt. Botanist & Director
Cinchona Plantations
Nilgiris

To

The Secretary to Government



Dated 2nd May 1888
Despatches " "
Received 3

No 13

Enclosures 5.

Subject

Sulphate of Quinine

Submitting Indents for certain
apparatus & chemicals
required for making
and requesting that
the despatch of the invoice
may be expedited

13
5-5

REVENUE DEPARTMENT.

21x

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read

again mis for 27 April 1888 no 2500
full also Cno 3060.

Order of 10th May 1888, no. 327

The indent is approved
and will be transmitted to
the Right Honorable the Secretary
of State for favor of early
compliance.

2. The entry in col. 2 of the
indent should be simply
'Provincial'. The detailed head
to which the cost is chargeable
need not be ^{specified} indicated, nor
also the reason for leaving
col. 3 blank, it being understood
that this column would not be
filled in if the charge was not
debitable to Imperial revenues.

10 May

These alterations will be
made in this office.

5 The Govt. Botanist
6 Asst. General
with indent

13-31-5

9/11/88 P.T.O.

No 44 of 188.

C. no 3060

The Asst. Under-Secretary of State
for India.

Gr & Letter to Asst. U.S. of State
for India.

Sir,

I am directed to forward
herewith, in duplicate, an indent
for certain apparatus & chemicals
required for making sulphate
of quinine and to request that
the Right Hon^{ble} the Secretary
of State will be pleased to
issue instructions for their
very early supply direct to the
Govt. Botanist & Director of the
Govt. Cinchona Plantations, Nilgiri.
I am also to request that the wishes
of Mr. Lawson as expressed in his letter
of 2nd inst. ^{which is} embodied in the order
(copy enclosed) sanctioning the indent
may, as far as possible, be complied
with. The articles may be sent

Indent for apparatus &
chemicals required for
making sulphate of quinine.

Print soon
10 May

* no 327 Rev. of 10 May 1888

either to Madras or Bombay according
as facilities offer.

2. The cost of the apparatus &
chemicals will be debited to Provincial

frank. & 1/1000
a/m 10/1000
8 May

C 9/5
R 10/5