M.R.O. 1—17,004—2-6-87.

(1) Number of pages 2

(2) Date of repair 9-87

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Police Office DEPARTMENT.

G.O. No. 586-870 Press Mis.

Dated 15-3 1887.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following letter from M. A. LAWSON, Esq., Government Botanist and Director of Cinchona Plantations, Nilgiris, to the Secretary to Government, Revenue Department, dated Ootacamund, 15th February 1887, No. 106:—

I have the honor to acknowledge the receipt of G.O., No. 705, of 2nd February 1887, Miscellaneous, Revenue, asking for information respecting Mr. Hooper's method of manufacturing his liquid extract of the cinchona alkaloids; and to forward herewith his report on the subject.

2. I would suggest that, for the further information of the authorities in Jamaica, they should be provided with copies of the following G.Os., which specially refer to the matter:—

G.O., No. 366, of 25th March 1885, Revenue, containing Dr. Cornish's report on experiments made in various hospitals under his charge as to the properties and value of the extract.

G.O., No. 718, of 17th August 1886, Revenue,—Dr. Bidie's letter on the liquid extract.

G.O., No. 6736, of 8th November 1886, Revenue,—Dr. Bidie's report on the liquid extract.

G.O., No. 1374, of 14th December 1885,—Dr. Furnell's report on the therapeutic properties of the amorphous alkaloids.

G.O., No. 988, of 15th November 1886, Revenue, covering the Government Botanist's report on the Cinchona Plantations, which contains a review of the whole subject by Mr. Hooper.

3. Any further information that may be gained by Mr. Hooper after the disintegrator and other apparatus for manufacturing the extract on a large scale has been put up, shall be forwarded to you.

Enclosure.

Letter from D. HOOPER, Esq., Government Quinologist, to the Government Botanist and Director of Cinchona Plantations, Nilgiris, dated Ootacamund 10th February 1887.

I have the honor to acknowledge the Order No. 109 (Revenue), dated India office, London, 2nd December 1886, asking for information regarding the preparation in this Presidency of a febrifuge made from cinchona bark suitable for general use to be employed in the West Indian Colonies.

2. The febrifuge made here, at present on an experimental scale, is a thick liquid extract of cinchona after Doctor de Vrij's process, but concentrated to such a degree that one fluid ounce contains 40 grains of total alkaloids of the bark.

3. It is prepared by exhausting the powdered bark with hydrochloric acid and glycerine, by repeated percolation, in the same manner as Mr. Bowney has already adopted in the extraction of alkaloids in Jamaica. The glycerine used must be sufficient to form one-fifth of the finished product. The percolated liquors are evaporated down at a temperature below boiling point, until the whole has reached the desired concentration, previously found, by calculating from the strength in alkaloids of the bark used. The glycerine not only prevents oxidation during the evaporating, but is a preservative to the finished extract.

4. The cheapness of this preparation, compared with other febrifuges, has been shown in its manufacture, conducted in Madras and Ootacamund, and reported in the annual report of the Cinchona Department, 1885-86, (G.O., No. 988 of 15th November 1886, Revenue).

5. The liquid cinchona has been tried in various hospitals in feverish districts of the Presidency and found to be efficacious. The medical reports on the extract appear in G.O., dated 25th March 1885, No. 366, Revenue, and G.O., dated 17th August 1886, No. 718, Revenue.

15th March 1887. Nos. 286, 286 A, Revenue.

Read—also the following letter from G. BIDIE, Esq., M.B., C.I.E., Surgeon-General with the Government of Madras, to the Secretary to Government, Revenue Department, dated Fort St. George, 7th March 1887, No. 113 :—

In returning the papers regarding a cinchona febrifuge for the West Indies referred under G.O., No. 705, of 2nd February 1887, I have the honor to report to the Right Honorable the Governor in Council that the fluid preparation made by Mr. Hooper with bark, hydrochloric acid and glycerine would, according to our limited experience, prove satisfactory as a remedy for paroxysmal fevers.

2. Of course its efficacy in special cases will, to some extent, depend on the kind of bark from which it is made, as some species contain a considerable quantity of quinine and others little or none. A full dose must also be given to make any impression in severe cases. The Madras fluid preparation now contains 40 grains of alkaloids to the ounce of fluid.

Order—dated 15th March 1887, No. 286, Revenue.

Miscellaneous.

The foregoing papers will be forwarded to the Government of India, together with copies of the following :—

G.O., dated 25th March 1885, No. 366.
" " 14th December " " 1374.
" " 17th August 1886, " 718.
" " 8th November " " 6736.
" " 15th " " " 988.

(True Extract.)

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

To the Government Botanist.
" the Surgeon-General with the Government of Madras.

No. 286-A.

Copy to the Government of India, Home Department, with reference to their endorsement No. 71, dated 26th January 1887.

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

Exd. W. H. French.

50 Copies.

2-H-87
2-2-87
16

Reprint

Govt. of {1887} Madras.

REVENUE.

Issued

Recd. *Encl.*

G.O., 15th March 1887,
Nos. 286. 286A.

MARCH.

Cinchona Febrifuge.

Papers on the preparation of — by Mr. Hooper, ordered to be forwarded to the Government of India.

Sec Accounts
2-6-87

ABSTRACT.

9.11.87

Rem 11
1887

From G.C. No 705 dt 2nd Feby

Forwarded (in original)
to the Director of Genl:
Circulars Hospitals
and the Surgeon General
for Comments. The former
Officer should forward
to the latter, the accompa-
nying papers, as soon as
he has done with it.

Fredk Rees
Offg Secretary to Govt.

Fort St. George
2nd February 87

OFFICE OF SURGEON GENERAL
18 FEB 87
WITH GOVT: OF MADRAS.

The Govt Botanist &
Surgeon General with Govt

Dr. Lt. 89 1057

(1887.)

REVENUE DEPARTMENT.

No. 810

From the Govt. of India,
Home Dept.

OFFICE OF SURGEON GENERAL
18 FEB 87
WITH GOVT: OF MADRAS.

P.O. No 15-3-87 No 280

Dated 26 January 87

Received 1 Feb

Enclosures 1

No. 11.

SUBJECT.

Forwarding for Comments
copy of correspondence relative
to the preparation of a febrifuge
suitable for use in the
West Indian Colonies.

Bot 1887
2 pp

No 1143 Office of the Surg Genl
with the Govt of Madras
Fort St. George 7th March 87

From

G. Bidie Esqr M.D. I.E.
Surgeon General
with the Govt of Madras

To

The Secy to Government
Revenue Department.

Sir

I have the honor to report regarding a Circular febrifuge for the West Indies referred under G.O. No 705 of 2nd February 1887. I have the honor to report to the Right Honorable the Governor in Council, that the

fluid preparation made by
Mr Hooper with bark, hydro-
-chloric acid and glycerine
would accordingly be over
limited expenses prove
satisfactory as a remedy for
paroxysmal fevers

2 Of comparative efficiency
in special cases will be some
extent depend on the kind
of bark from which the
made, as some species con-
tain a comparable quantity
of quinine and others little
or none), the full dose must
also be given to make any
impression in severe cases.
The Madras fluid prepara-
tion now contains 40 grs
of

of a Chloride to the ounce of
fluid

Since the bounty be
Let
Your most Obedt Servant
Signed &c B.C.S.E.
Surgeon-General
with the Government.

10

Rec. (1887) Depart.

Inv. № 1889.

The Surgt. General.
with the Surgeon
St. George.

COLONIAL SECRETARIAT
18 MAR 87
REVENUE DEPARTMENT

№ 113.

Date — 7 March
1887

№ Enc. 1

Subject

Uniform Method of fluid
preparation made by Mr.
Lloyd — from Cinchona
for paraguard fever.

C 12.3.87
R 18.3.87

(Extract)
10th February 1887.

Sent
The Surgeon General Quinologist
(Extract)
to
The Surgeon General Botanist
& Director of Cinchona Plantations
Ceylon

Sir

I have the honor to acknowledge the order to my Journal dated India office, London, 2nd December 1886, ordering for information and report the preparation by Mr Thos Lloyd of a fluid extract from Cinchona bark for general use in the British Indian Colonies.

2. The preparation made here, at present on an experimental scale is a thick liquid extract of Cinchona, after Dr. de Vrij's process, each ounce of which contains 40 grains of total alkaloids of the bark.

3. It is prepared by exhausting the powdered bark with hydrochloric acid and glycerine by repeated percolation in the same manner as Mr.

Mr Bovoney has already adopted, in the extraction of alkaloids in Jamaica. The glycerine used must be sufficient to form one-fifth of the finished product. The percolated liquors are evaporated down at a temperature below boiling point, until the whole has reached the desired concentration, previously found, by calculating from the strength in alkaloid of the bark used. The glycerine gradually prevents oxidation during the evaporating, but is a preservative to the finished extract.

4. The cheapness of this preparation compared with other febrifuges has been proved in its manufacture, conducted in Madras and Ootacamund, and reported in the Annual Reports of the Cinchona Department 1885/86 G.O. No 988 of 15th November 1886, Revenue,

5. The liquid Cinchona has been tried in various hospitals in several Districts of the Presidency, and found to be efficacious. The Medical Reports on the extract

appear

15

appear in G.O. 25th March 1885 No 366 Revenue, and G.O. 17th August 1886 No 718 Revenue.

I have the honour to be
Sir
Your most obedient Servant
Signed J. D. Hooper
Government Botanist

Ootacamund
The 22nd Sept
1887

To
The Secretary to Government
Revenue Department
Madras

No 1

Enclosure to letter from
dated 15 February 187
from the Post Master
and Director of Customs
Kandahar to Inspector
& the Secretary Post
Runner Department
Post & Telegraphs

Report on the practa-
-bility of Introducing
-suitable Ponies for use in
the Post & Telegraph
Establishment.

Rec'd
Rec. 13/4/87

Employing Local Councils report
on expenditure made in excess
of funds under the charge of
the Inspectors and Visitors of
the district.

Copy letter of 7th August 1896
Forwarding Local Boards Report
on the Elgin District.

Copy No 5736 of 8th November
1896 Forwarding Local Boards
Report on the Elgin District.

Copy No 1394 of 11th January 1897
Local Government Board Inquiry
Re Proposed Purchase of the
Waterworks undertaking.

Copy No 4795 of 15th November 1896
Forwarding Report on Petitions
Praying that Certain Portions
of Parishes may be Severed
from the Union.

Copy Letter intimating
that Application by Mr Hayes
will be heard on a Day to be
fixed not Short Notice
to you.

P. L. Lawson
Secretary

G.o 2.2.87 No 705 Mis.
25.3.87 No 866
17.8.86 No 718
8.11.86 No 6736
14.12.85 No 1374
18.11.86 No 988

Mis

Read c. Nos 1352 & 1889.

G.O No. 286 dg 18.3.87

The foregoing papers will be forwarded to the Govt of India together with copies of the following:—

G.o 25.3.85 No 306
" 14.12.85 No 1374
" 17.8.86 No 718
" 8.11.86 No 6736
" 18.11.86 No 988

To
The Govt Botanist
Director Cult Govt
Endt No 286 A

Copy to the Govt of India, ~~Rev~~ ~~Agl Dept~~ Home Dept, with reference to Rev Endt No 71 dg 26th January 1887.

Revenue Dept.

Revenue 1887 / Cinchona

No 1352.

17 FEB 87
REVENUE DEPARTMENT

From

The Secretary to Govt
Madras Revenue &
Agricultural Departments
To
The Secretary to the
Government of India
Home Department

Madras, the 12th February 1887

Sir,

In accordance with the Resolution of the Government of India, Home Department, No. 1352 dated 4th December 1886, I have the honor to forward herewith a report by the Government Botanist on the Cinchona Cultivation in the Nilgiris and Wynaad.

I have the honor to be,
Sir,
Your most obedient
humble servant
[illegible]
Secretary to Government

D.-T.-O.