M.R.O. 1—20,002—12-8-65.

(1) Number of Pages 10.

(2) Date of repair 3-3-67.

(3) Initials of the Referencer 188

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue. DEPARTMENT

G.O. No.	1367.	Press
B.P. No.		Mis.
Dated	26-10-1874	1896.

Not to be folded or roughly handled

1367

Proceedings of the Madras Government, Revenue Department,
26th October 1874.

No. 299. Read the following letter from J. BROUGHTON, Esq., Government Quinologist, to C. G. MASTER, Esq., Acting Secretary to Government, Revenue Department, dated Ootacamund, 3rd October 1874 :—

I AM now in receipt of G. O., No. 1,094, of 28th August 1874, and learned with much regret of the state of Amorphous quinine alluded to in the attached letter of the Surgeon-General.

2. I have examined the sample, and find its mechanical state to be due to an admixture of the isomeric forms of the ordinary Cinchona alkaloids. I find upon investigation that it has been caused by the evaporation mentioned in paragraph 18 of my report (attached to G. O., No. 408, of 1st April 1874), being proceeded with too far. The prolonged heat has caused part of the quinine and Cinchonidine to be converted into their isomeric forms which are glutinous and fusible in the climate of Madras. The proceeding of manufacture has been slightly altered in consequence of the letter sent by the Surgeon-General to the manufactory, and the evil has in consequence quite ceased. The change in the alkaloids is hardly one that could have been foreseen, and it is only by actual experience that the risk of change by manufacture has become known. It will, of course, not again occur. Solid Cinchona alkaloids are not liable to spontaneous change, and the deterioration has been caused in the manufacture, and only lately.

3. The value of the Amorphous quinine in medicine is not at all effected by the change in its state. But it will be necessary to prepare it in a solution for the convenience of the prescriber. I am desirous of speaking to Dr. Balfour and the Medical Store-keeper concerning this and also concerning the calcic quinovinate for which he has recently indented on me. I also desire to see Mr. Doderet at the works at Chepauk concerning certain apparatus. I have, therefore, the honor to request permission to go to Madras on duty at a convenient season. My absence shall not, of course, interfere with the fulfilment of G. O., No. 759, paragraph 15 of 22nd June 1874, and shall not take place till after the sitting of the Commission, unless the arrival of Mr. Cornish be delayed.

No. 300. ORDER THEREON, 26th October 1874, No. 1,367.

Miscellaneous.

COMMUNICATED to the officers noted in the margin.

2. Mr. Broughton is at liberty to proceed to Madras for the purposes stated by him when his regular work permits.

Surgeon-General, Indian Medical Department.
Sanitary Commissioner.
Commissioner of the Nilgiris.

(True Extract.)

(Signed) C. G. MASTER,
Acting Secretary to Government.

To the Surgeon-General, Indian Medical Department.
„ the Sanitary Commissioner.
„ the Commissioner of the Nilgiris.
„ the Government Quinologist.

Ed. F. R. Bantleman.

Govt. of India 1874.

REVENUE.

To

The Surgeon-General, Indian Medical Department,

&c., &c., &c.

Dated October 28th

Read

G. O., 26th October 1874, No. 1367.

OCTOBER.
Nos. 299-300.

Directorate Annexation Opinion on the stock of the Madras State Dispensary.—Communicating to certain officers Mr. Broughton's report on the contents of—sent to him and permitting him to transfer to Madras for the purposes stated when he resigns, with remarks.

Revenue Department.

No. 3459.

From the Govt. Quinologist, Ootacamund.

Dated 31st October 1874.

FOR ORDERS.

I would communicate this to the Govt. Madras when he asks him permits for the Madras stated

DR 4/11 — 21/10 — 19.11

FOR ORDERS.

Mr Campbell

15/10/74

Ootacamund
3d October 1874

From,

M. J. Broughton
Government Quinologist

To,

C. G. Master Esq.
Asst Secretary to Government
Revenue Department
Ootacamund

Sir,

I am now in receipt of G. O. No. 1094, of 28th August 1874, and learned with much regret of the state of Amorphous quinine alluded to in the attached letter of the Surgeon General.

2. I have examined the sample and find its mechanical state to be due to an admixture of the isomeric forms of the ordinary cinchona alkaloids. I find upon investigation that it has been caused by the evaporation mentioned in para 18 of my report (attached to G. O. No. 405, of 1st April 1874) being proceeded with too far. The prolonged heat has

has caused part of the quinine and cinchonidine to be converted into their isomeric forms which are glutinous and fusible in the climate of Madras. The proceeding of manufacture has been slightly altered in consequence of the letter sent by the Surgeon General to the manufactory, and the evil has in consequence quite ceased. The change in the alkaloids, is hardly one that could have been foreseen and it is only by actual experience that the risk of change by manufacture has become known. It will of course not again occur. Solid cinchona alkaloids are not liable to spontaneous change, and the deterioration has been caused in the manufacture and only lately.

3 The value of the amorphous quinine in medicine is not at all effected by the change in its state. But it will be necessary to prepare it in a solution for the convenience of the prescriber.

I

[167]

I am desirous of speaking to Dr Balfour and the Medical Storekeeper concerning this and also concerning the calcic quinovinate for which he has recently indented on me. I also desire to confer Doderet at the works at Chetpauk concerning certain apparatus. I have therefore the honour to request permission to go to Madras on duty at a convenient season. My absence shall not of course interfere with the fulfilment of G. O. No. 739 para 15. of 22d June 1874 and shall not take place till after the sitting of the Commission unless the arrival of Mr Comish be delayed.

I have the honour to be
Sir,
Your most Obed. Sert.

John Broughton

Government Quinologist

No 3457
Revenue 1874 Sept 1

From

The Govt Reinvologist
Calcutta

To

The Secretary to Govt
Revenue Department
Calcutta

Dated 30
Rec'd 5 } Oct. 1874

Enclosures - none

No 1367 - 26 October 1874

Reports concerning
the medicinal state
of Amorphous Quinine
recently sent to Medical
Stores ~~per bullock~~ ~~train~~

299 - 305

No 1367

Communicated to the
Surgeon General & Sanitary Commissioner Bengal officers concerned
for information.

2. Mr. Broughton is at liberty to proceed to Calcutta for the purposes stated by him, when his regular work permits.

Sd

26/10/74.

6 To the Surgeon General Medl Dept
6 " Sanitary Commissioner
3 " Commissioner of Police
1 " Govt Reinvologist