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MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	<i>1472</i>	Press Mis.
Dated	<i>6-11-</i>	<i>1880.</i>

Not to be folded or roughly handled

[Handwritten signature]

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

6th November 1880, No. 1,472.

READ THE FOLLOWING PAPER:—

No. 98. From ROBERT CROSS, Esq., to N. A. ROUPELL, Esq., Acting Commissioner of Nilgiris, dated Ootacamund, 27th October 1880.

CONCERNING the order and inquiries of Government contained in your despatch of 25th of this month, I beg to state that the three plants of soft Columbian bark brought by me from England, and with which I arrived here lately, are progressing very satisfactorily and may now be regarded as perfectly safe. They will require care and watching for about two weeks more or so until fairly established, but I have not the slightest doubt of the security of these plants in India. I may again revert to some of the difficulties encountered while bringing them from South America to India.

2. After the despatch of the plants sent out last autumn by the late Mr. Bierman, a good deal of interference was experienced on the part of the Kew authorities who proposed to send the plants brought out just now to Jamaica! There is no suitable locality there for soft Columbian plants. Early in September, I packed the three soft bark plants carefully and likewise a small case of hard Carthagera or ordinary Columbian bark plants which I brought from South America at the suggestion of Mr. Howard, the quinine manufacturer, who thought this sort might prove useful in India. I left Southampton by the Mail Steamer of the 8th September and fine weather prevailed until reaching Malta, where the heat became so great that the young heart buds of the soft Columbian plants were completely scorched. The leaves also then and afterwards were twisted and curled up like shavings, although they remained green and fresh. Reaching Bombay on the 5th October, I travelled by rail up the Ghâts and through the Nizam's territory to Arkónam, finally reaching Ootacamund on October 8th. On the following day the Carthagera bark was handed over to Mr. Jamieson, the Superintendent of the Botanic, whilst I, as was suggested, continued to take care of the soft Columbian sort. In order to facilitate close and safe working I planted out the plants on a terraced bed, protecting them with hand glasses as occasion required. Respecting the future cultivation of the soft bark my own opinion is that the Nilgiris afford for this sort as also for the Pitayo and Condaminea all necessary conditions for the fullest development of these trees. The Carthagera sort will find a home in any warm ravine suitable for Coffee.

3. The soft Columbian sort may be multiplied with confidence to any extent and extensively planted in suitable districts. But as regards the Carthagera bark, I am of opinion that the planting should be limited until it can be fully resolved if it is equal or superior to either the Red or Calisaya barks. As soon as the plants can be safely left, I will proceed and examine the plantations.

4. Whilst doing so, I would beg to be permitted to make a collection of samples of bark of the different sorts for transmission to England with the view of ascertaining—

- 1st—the relative excellence of each species in the production of quinine;
- 2nd—the improvement which takes place in the quantity and quality of the alkaloids as the bark increases in age; and
- 3rd—to illustrate, if possible, that each species possesses an unvarying character in accordance with the different phases of development and maturity of the bark.

In collecting these care would be taken that not the slightest injury would be done to any of the trees and the whole would amount to about 20 or 25 lb. These

would go through the India Office, and I would propose that Mr. Howard be asked to examine them.

5. In conclusion I trust that the statements herein contained regarding the safety of the soft Columbian plants may prove satisfactory to Government.

P.S.—The annual export of soft bark and Carthagena from New Granada is reported to exceed £ 400,000.

No. 225.

SUBMITTED to Government with reference to G.O., No. 1,384, dated 23rd October 1880.

2. The undersigned has sanctioned the collection by Mr. Cross of the samples of bark as requested.

OOTACAMUND,
3rd November 1880.

(Signed) N. A. ROUPELL,
Acting Commissioner.

No. 99.

ORDER THEREON, 6th November 1880, No. 1,472.

Miscellaneous.

THE Government have received with much satisfaction Mr. Cross' report of the safe arrival and thriving condition of the three plants of the Calisaya Santa Fé or soft Columbian bark, which remain of those collected by him in South America and brought successfully to England in the face of many difficulties.

2. Copy of his report will be transmitted to the Secretary of State.
3. The Acting Commissioner's action in permitting Mr. Cross to collect samples of the different kinds of bark on the plantations is approved.
4. The Acting Commissioner will now report on the condition of the hard Carthagena or ordinary Columbian plants brought by Mr. Cross.

(True Extract.)

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

To the Acting Commissioner of Nilgiris.
„ the Conservator of Forests.
„ the Superintendent, Government Central Museum.

Exd. W. H. French.

50 Copies.

Government Gardens
Batavia
27 October 1880

To
Mr. A. Russell Esq
By: Commissioner
Nijmegen

Sir,
Concerning the order and inquiries
of Government contained in your despatch
of 25th of this month I beg to state that
the three plants of soft Columbian bark
brought by me from England and with
which I arrived here lately are progress-
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J. C. P. J. C.

Govt. of 1880
REVENUE.

To
THE ACTING COMMISSIONER OF
NIGERIA,
Acc. Sec. Acc.

Dated November 6th.

Printed December 11th.

Recd.

Encl.

G.O., 6th November 1880, No. 1,472.

NOVEMBER.
Nos. 98-99.

Plants of the *Calisaya* *Bontia* *Et* or *soft*
Columbian bark, &c.—Directing, with remarks,
that copy of Mr. Cross' report regarding certain
— be transmitted to the Secretary of State;
approving the Commissioner's action in permit-
ting Mr. Cross to collect samples of the different
kinds of bark on the plantations; and directing
also the Commissioner to report on the condi-
tion of the hard Carthagenia or ordinary
Columbian plants brought by Mr. Cross.

From Commissioner Nijmegen 27/10/80 - 2/11/80

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There is no suitable locality there for
Soft Columbian plants. Early in September
I packed the three soft bark plants
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go through the Indian Office, and
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be asked to examine them.

In conclusion I trust that
the ~~specimens~~ contained regarding
the safety of the Soft Columbian plants
may prove satisfactory to Government.

I am &c
(Sg) Robert Cross

P. J.

P. J.

The annual export of soft bark
and Castanea from New Granada
is reported to exceed £4,00,000.

(Sg) R. C.

No. 225 (True copy)

Submitted to
Government with reference to G.O.
No. 1384 dated 25th October 1880

The undersigned has
sanctioned the collection by Mr. Cross
of the samples of bark as requested

Wm. Cross

Commrs Office

Defra

3rd November 80

Commissioner

Dec 1850

Ms. A. 9.2.2.3
Ms. A. 9.2.2.4

Bated 3^d November 1880
 Recd 7
 20

Mr Secretary to Govt
Revenue Deptt

Poste auvent

8. 11. 82

8. 11. 82
Seely

Yours truly a
silly

of the Robert Lowe
Report on Sanitary

Plants which he has
brought from South

Stenocercus to *Colaptes auratus*

cc: [illegible]