M.R.O. 14—13,000—27-9-24.

MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

G.O. No. 1851	Press ~~Mis.~~
113 114	
Dated 9-10-1863	

Not to be folded or roughly handled

Proceedings of the Madras Government, Revenue Department, 9th October 1863.

No. 113. Read the following letter from W. G. McIVOR, Esq., Superintendent Government Chinchona Plantations, to J. D. SIM, Esq., Secretary to Government, Fort Saint George, dated Ootacamund, 3rd October 1863, No. 91 :—

SIR,

1. With reference to paragraph 3 of the Despatch of the Right Honorable the Secretary of State for India of the 16th July 1863, and the Order of Government under date 24th August 1863, No. 1,558, I have the honor to forward by banghy a box containing further supplies of Chinchona bark and leaves, as per list annexed, to be submitted to Mr. Howard for further analysis and report.

2. The bark and leaves now forwarded were removed from the plants during the rains; or the season of the year when the sap is in full flow, being the period when the plants contain the greatest proportion of moisture.

3. The object in submitting these specimens is to ascertain how far this condition affects the yield of alkaloids. The last supply of bark submitted to analysis by Mr. Howard was cut when the sap was beginning to rise. A further supply will be forwarded in the dry season when the plants are at rest, and this I trust will be sufficient to enable Mr. Howard to form an opinion of the most advantageous time of collecting the bark. It, however, occurs to me that the bark should either be cut in the middle of the dry season, or in the spring; as the sap is beginning to rise; these seasons are also most favorable for drying and preserving the bark.

4. The plants under cultivation have given unmistakeable signs that they do not require so moist a climate as they are represented to enjoy on the Andes. This season at Neddivuttum has been unusually wet, and several of the Grey Bark plants have suffered in consequence. The way in which the continuous rain seems to effect the plants is by throwing a constant stream of water down the channels of the leaves which resting in the axil causes the bark there to decay; this decay is communicated to the young growing wood, and ultimately to the pith; the decay once having reached the pith, the rain water finds its way into the centre of the stem, and in this way affects the health of the plant. A specimen of the wood of Chinchona Micrantha is forwarded for Mr. Howard's opinion on the subject. The Red Bark, Crown Barks, and Yellow Bark do not suffer from this cause, apparently, because the petiole of the leaf in these species being more rounded, and consequently it does not conduct and deposit the water in the axil of the leaf as in the case with the Grey Barks.

Specimen of Chinchona Barks, &c.

No. 1. Chinchona Succirubra, Red Bark from plants of 22 months' growth.
„ 2. C. Succirubra, Red Bark from plants of 18 months' growth, thickened by being covered with moss for 3 months.
„ 3. C. Succirubra, Red Bark from branches of 18 months' growth and under.
„ 4. Renewed Bark of C. Succirubra, the centre part being the bark renewed a second time.
„ 5. Red Bark from small branches broken by the wind.
„ 6. Chinchona Micrantha, Bark from a plant of 18 months' growth.
„ 7. C. Micrantha, Bark from upper part of plant of 18 months' growth injured by the rains.
„ 8. C. Micrantha, Bark from branches broken by the wind.
„ 9. C. Pahudiana, grown in open ground.
„ 10. Green leaves of Red Bark dried in the shade.
„ 11. Green leaves of Chinchona Officinalis do.
„ 12. Green leaves of C. Micrantha do.
„ 13. Specimen of wood of C. Succirubra, showing the injury done by the continued rains.

(Signed) W. G. McIVOR,
Superintendent.

Ootacamund,
3rd October 1863.

Proceedings of the Madras Government, Revenue Department, 9th October 1863.

No. 114. ORDER THEREON, 9th October 1863, No. 1,851.

The bark will be forwarded to the Home Government with a copy of the above letter.

(True Extract.)

(Signed) J. D. SIM,
Secretary to Government.

To the Superintendent Government Chinchona Plantations.
Editor's Table.

Exd. S. T. Augustin.

I have the honor to be
Sir
Your most Obedt Servant

Superintendent Govermt
Cinchona Plantations

24th August/63 Pp. 257-252

Copy minute Letter to Capt.
D/10 Oct./63 No. 110.

Nos 1113 & 1114.

Rec.d 1863 Oct.r
No. 9 Post for October.
No. 7100.

The Lieut.t Gov.r
Cornelius Shrubsole

The Surgeon & Visit.g
Port of Stanger
Natal

No. 11.
Natal 3rd October 1863.
Rec.d 6th.

Sir

I have the honor to transmit
a further supply of Chinchona
bark and leaves have been
forwarded by Dungeid
be submitted to Mr. Howard
for further Analysis from Port
St. 1851. 9 Oct.r

Wm Hy Saunders

Rec.d 15th Nov.r/63
No. 7218

Jan.y 1851

The bark will be for-
warded to the Home
Govt. with a copy of
the above letter.

Fort St. George
9th Oct.r/63

1 Copy to the Lieut.t Gov.r Shrubsole's Despatch No. 9 Oct.r
Ed.d Table.