M.R.O. 1—14/[illegible]-3-67.

(1) Number of pages 18

(2) Date of repair 24 Sept 34

(3) Initials of the Reformer

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	339	Press / Mis.
Dated	4 Oct 1870	

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

4th March 1878, No. 339.

Read the following paper:—

No. 26. From A. McC. WEBSTER, Esq., Acting Commissioner of the Nilgiris, to C. G. MASTER, Esq., Secretary to Government, Revenue Department, Fort St. George, dated Ootacamund, 22nd January 1878, No. 10.

In forwarding, herewith, copy of a letter from the Assistant Superintendent, Cinchona Plantations, I have the honor to request that application may be made to the authorities in Java for a supply of seed of the Ledgeriana variety of cinchona.

Enclosure No. 1.

From W. ROWSON, Esq., Assistant Superintendent, Government Cinchona Plantations, to A. McC. WEBSTER, Esq., Acting Commissioner of the Nilgiris, dated Neddivuttum, 13th December 1877, No. 85.

I have the honor to report that during the pas n the *Cinchona calisaya* trees have (almost without exception) sickened and died.

2. The trees are felled, and I am in hopes that shoots will be thrown up by the stools, consequently the propagation will not be stopped.

3. The cause of the death of these trees I attribute to their non-suitability to this climate and to the prolonged drought.

4. The demand from the Wynaad for this va of cinchona is great. On the completion of the propagation-house they will be propaga with rapidity.

5. Further planting of the calisayas should n be continued, as it has now been, I think, conclusively proved that they are not at home in is climate, the high winds and the long droughts not being to their liking. The number ould be limited to a few stock plants for purposes of propagation.

6. It would be advisable to plant up the d lately occupied by the calisayas with crown barks, the renewed bark from this variety being quite as valuable as yellow bark and the climate being admirably adapted for their successful cultivation.

7. As we possess but very few of the valuable nchona var. Ledgeriana (less than ten, all told), I beg to suggest that an application be ma to the authorities in Java for a supply of seed, with the particular request that the seed be well m d and freshly gathered.

No. 27. Order thereon, 4th March 1878, No. 339.

Miscellaneous.

Application will be made to the overnor-General of the Netherlands ndia for a supply of seed of the *C. calisaya* var. Ledgeriana to be sent direct by post to the Commissioner of the Nilgiris.

2. The existing plants of this variety should be used as stock plants for propagating purposes.

3. The Acting Commissioner will arr nge for a few plants of this and other varieties of the *C. calisaya* being experimentally planted out in Sim's Park or elsewhere at Coonoor.

(True Extract.)

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

To the Commissioner of the Nilgiris.

Exd. A. F. Goodall.

COMMISSIONER'S OFFICE,

No. 10

Ootacamund, 22nd January 1878.

FROM

Actg. COMMISSIONER NILGIRIS.

To

The Secretary to Government
Revenue Department
Fort St. George.

SIR,

In forwarding herewith copy of a letter from the Assistant Superintendent Chinchona Plantations, I have the honor to request that application may be made to the authorities in Java for a supply of seed of the Ledgeriana variety of chinchona.

I have the honor to be,
Sir,
Your Most Obedt. Servt.

A. McIvor
Actg. Commissioner.

G.V.

Govt. of {1878} Madras.

REVENUE.

To

THE COMMISSIONER OF THE NILGIRIS,
&c., &c., &c.

Dated March 4th.

Read.

Rcd.

G.O. [illegible] No. [illegible]

MARCH.
Nos. 26-27.

Cinchona Seed.—Resolving to apply to the Governor-General of the Netherlands India for a supply of seed of the *C. calisaya* var. Ledgeriana to be sent direct to the Commissioner of the Nilgiris —; and directing the Commissioner to arrange for a few plants of the different varieties of *C. calisaya*, being planted experimentally at Coonoor.

C 2/258 R 2/258
C 13/246 to 25/2/78

Received 1878 Jan 15
No. 11 Jan 8
Date— 11 January 78
Commissioner's Office.
Ootacamund.

To

The Secretary to Government
Revenue Department
Fort St. George.

Enclosures.

Chinchona Bark.

SUBJECT.

Requesting that affiliation may be made to the authorities in Java from supply of the Ledgerianna variety.

C 81

No. 86.

13th December 1877.
Neddiverttum.

From,

The Assistant Superintendent
Government C. Plantations

To

A. McC. Webster Esqr.
Commissioner of the Nilgiris

Sir,

I have the honor to report that during the past season the Chinchona Calisaya Trees have (almost without exception) sickened and died.

2. The Trees are felled and I am in hopes that shoots will be thrown up by the stools, consequently the propagation will not be stopped.

3. The cause of the death of these trees I attribute to their unsuitability to this climate and to the prolonged drought

4. The demand from the Caymaak, for this variety of Chinchona is great. On the completion of the Propagating House they will be propagated with rapidity.

5. Further planting of the Calisayas should not be continued as it has now been, I think, conclusively proved that they are not at home in this climate. The high winds and the long droughts not being to their liking. The number should be limited to a few stock plants for purposes of propagation.

6. It would be advisable to plant up the land lately occupied by the Calisayas with Crown Barks, the renewed bark from this variety being quite as valuable as Yellow

yellow Bark, and the climate being admirably adapted for their successful cultivation.

7. As we possess but very few of the valuable Chinchonas Var. Ledgeriana (less than ten all told) I beg to suggest that an application be made to the authorities in Java for a supply of seed, with the particular request that the seed be well matured and freshly gathered.

I have the honor to be
Sir,
Your Most Obed.t Servt.
(Signed) W. Rowson.
Assist.t Superintendent.

(True Copy)

W.W. Bruce
Ag.t Commissioner

Gov.t

No 26

Rec.d 3/2/78

Revenue Department

7x

Memo for Orders
on letters from the Commissioner, Nilgiris
dated 22d and 30th January 1878 Nos. 10 & 16
respectively regarding Cinchona seed (Calisaya var. Ledgeriana)
to be sent ~~required~~ from Java & asked for by the
Wynaad Planters Association.

With the earlier of
the above, the Acting Commis-
sioner of the Nilgiris forwards
a letter from Mr. Rowson
bringing to notice the failure
of many of the existing plants
of C. Calisaya at Neddivattum.
Mr. Rowson wishes
to plant up the portion of
ground lately occupied by
the C. Calisaya with Crown
barks

No 16

⊗ This does not seem to be of much consequence for our kind of Calisaya was not very valuable - Mr. Howard examined some bark of this species sent home in 75 & says of it
"these (bales) I have examined with much interest as I have failed hitherto to find any proof that the Ledgeriana is cultivated at all in British India. I need with a confirmation of my suspicions in this parcel which though of good quality has not the appearance of the Java Ledgeriana it is little more than half as rich ------ The contents in alkaloid are not the same as the C. Officinalis of my introducing"
(See page 116 of Howards E. I. Cinchonology. Part II 4th)

barks but suggests that seeds of the Calisaya Ver Ledgeriana should be obtained from Java for propagation as there are only about ten trees of this variety in the gardens and the Calisayas are in demand for the Wynaad.

2. Writing on the subject of forming fresh plantations Mr Howard says "It is not enough to secure even the very best species such as the Calisaya unless it

Then the seed of the specially prepared Seed sent Mar 24/12

Vide page xi of preface to the recently published Parts II + III of his Cinchonology of the E.I. Plantations

Cinchonologia pg. 57 B
Howards Cinchonology Part. II & III

it be the special form in which the alkaloids are produced to the most advantage."

3. Of the Cultivated kinds of C. Calisaya the Ledgerianas have yielded the best results and this on the Java plantations where the natural bark often yields 6 9 per cent of quinine. The Governments have often made exchanges &c, and the Government of the Netherlands India

India, will doubtless gladly comply with a request for seed.

Plants would be the best, for seed is apt to throw hybrids when trees of different species are grown near each other. To secure the safety of the plants some person should come with them but this will be troublesome and

Vide page 54 of Mr. Howards Cinnology Parts II and III.

and expensive and the Javanese authorities take great trouble to keep the seed pure. The elevation of their plantations is about 5000 feet so that the tree should do in the Wynaad.

4. It is suggested that experiments might be made with young Calisaya plants at Sims Park Coonoor and at Burliar, as at both places there is much less [illegible] + wind than at either Neddivattum or Ootacamund.

5. There is however another kind of Calisaya which is very valuable, this is known as the Calisaya Lanta for Staff) and its introduction

is

is strongly recommended by Mr. Howard. It seems moreover to be a hardier variety; for Mr. Cross says. "I asked a lad if bark ever fell: the answer was, sometimes it hardly leaves a leaf on the tree; so you see it grows in a rough climate."

6. Mr. Cross propagated in their native forests young plants of the C. Succirubra and brought them safely to Cotacamund. He knows therefore what to do, and as we can get the Ledgeriana seed from Java perhaps the Govt. would

x Sept 7th & Howard's Quin. 96th Part II & III

"The Calisaya Sta Fé" has not yet been introduced into India although it promises a quicker return for the outlay of planting than any other species. Of the C. Sta Fé I am glad to observe that I gave in 1866 a favorable account and that I then urged its introduction into India. I can only repeat this advice now having brought to the notice of the Indian Govt. the importance of employing their previous Collector Mr. R. Cross who showed his ability in introducing the seeds of the Loja bark[s] to complete the work by the transference of this kind to India. Till this is done I know not where our cultivators could obtain the plant but when accomplished I think that in three years he would secure as good results as in Java with the other varieties.

Mr. Cross writes of it (see p 42 of Howard's Quin. Parts II & III)

The tree is in fact a kind of perennial rushing up rapidly and maturing in a short space of time. It is more an annual than anything else shooting up rapidly and at the same time forming very thick bark which does not shrink much in drying.

+ See page 3 of Note on the Cinchona Plantations.

Send to Java

Yes but Java authorities should be applied to at once. Both wishes that special care be taken in the selection of seed

We are indebted to Mr. Spruce [illegible] for recalling attention to C. Lancifolia. He might, I think, tell us Lic: of State that this species has not yet been introduced into India, & call to his mind Mr. Howard's & Mr Cross's notices of the species and Mr. Spruce's address

Ed Hill

would feel disposed to recommend to the Secretary of State to employ him for other persons to obtain and bring plants of the Sta Fé from South America.

At present the Planters Associations might be told there is no seed of C. Calisaya available but endeavor will be made to obtain some.

Lic

Yes

& him & consult Some authorities as to the advisability of obtaining the seed & means & be taken with that object

14/2

Revenue Department

No 339

Proceedings of the Madras Government

Under date the 4th March 1878

Read the following letter from the Commr Nilgiris dated 22d January 1878 Nos 10 — respectively regarding Cinchona seed (Calisaya var Ledgeriana) to be got from Java and asked for by the Wynad Planters Association

Application will be made to the Governor-General of the Netherlands Indies for a supply of seed of the C. Calisaya var Ledgeriana to be sent direct by post to the Commissioner of the Nilgiris

2. The existing plants of

Memo for Orders.
Calisaya Ledgeriana
Cinchona seeds
to be got from Java

C. 15/2/78 18 25/2/78.

of this variety should be used as stock plants for propagating purposes.

3. The Acting Commissioner will arrange for a few plants of this and other varieties of the L. Laliaya being experimentally planted out in Innis Park or elsewhere at Coonoor.

Forwarded.

It appears from the Returns that from November to March in 76/77 it did not rain at all in Coonoor while at Coonoor town only 1.00 in the other months rain

To the Commissioner of the Nilgiris

50/77

G.O.

Cinchona Calisaya
(Ledgeriana) seed reg.d
from Java.

Cinc

Dept

2/2/27

C-27/2/28 R 2/2/28