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# MADRAS RECORD OFFICE.

Government of Madras.

*Revenue* DEPARTMENT.

G.O. No.

1340

Press

Mis.

Dated

11-8-1871

Not to be folded or roughly handled

*Proceedings of the Madras Government, Revenue Department,  
4th August 1871.*

From the Hon. J. Broughton, Esq., Government  
Quinologist, to the Secretary to Government, Revenue Department,  
Fort Saint George, dated Ootacamund, 3rd August 1871:—

The cases of Cinchona bark now packed, in order to send to England, are as  
follow:—

|    |                                   |     | lbs.   |
|----|-----------------------------------|-----|--------|
| 1  | Box old mossed Succirubra         | ... | 135    |
| 2  | " " "                             | ... | 135    |
| 3  | " " "                             | ... | 135    |
| 4  | " " "                             | ... | 145    |
| 5  | " " "                             | ... | 155    |
| 6  | " " "                             | ... | 161    |
| 7  | " " "                             | ... | 150    |
| 8  | " " "                             | ... | 141    |
| 9  | " small mossed "                  | ... | 143½   |
| 10 | " " "                             | ... | 200    |
| 11 | " " "                             | ... | 164    |
| 12 | " " "                             | ... | 186    |
| 13 | " " "                             | ... | 90     |
| 14 | " old mossed "                    | 14½ | 137½   |
|    | " unmossed "                      | 123 | 145½   |
| 15 | " " "                             | ... | 142    |
| 16 | " " "                             | ... | 108    |
| 17 | " mossed Condaminea (officinalis) | ... | 182½   |
| 18 | " " "                             | ... | 179    |
| 19 | " " "                             | ... | 173½   |
| 20 | " " "                             | ... | 180    |
| 21 | " unmossed "                      | ... |        |
|    |                                   |     | 3,188½ |

The above have been analysed for the purpose of ascertaining, as nearly as  
possible, their mean yield in percentages of dry bark.

|                                                        | Old mossed<br>Succirubra | Small<br>mossed<br>Succirubra | Unmossed<br>Succirubra | Unmossed<br>officinalis |
|--------------------------------------------------------|--------------------------|-------------------------------|------------------------|-------------------------|
| Total alkaloids                                        | 7.61                     | 6.56                          | 5.43                   | 4.96                    |
| Quinine                                                | 1.17                     | 1.74                          | 2.09                   | 3.03                    |
| Cinchonidine and cinchonine                            | 6.44                     | 4.82                          | 3.34                   | 1.93                    |
| Sulphate quinine obtained crystallized                 | 0.71                     | 1.25                          | 0.95                   | 3.14                    |
| Sulphate cinchonidine crystallized                     | 4.66                     | 2.63                          | 2.18                   | 1.05                    |
| Total crystalline sulphates, excluding cin-<br>chonine | 5.37                     | 3.88                          | 3.13                   | 4.19                    |

*Proceedings of the Madras Government, Revenue Department,  
4th August 1871.*

The mossed crown bark is of two ages, which have been unfortunately mixed in cases; their analyses yielded:—

|                                            | Oldest trees. | Second age. |
|--------------------------------------------|---------------|-------------|
| Total alkaloids...                         | 7.41          | 4.78        |
| Quinine ...                                | 4.57          | 2.96        |
| Cinchonidine and cinchonine ...            | 2.84          | 1.77        |
| Sulphate quinine obtained crystallized ... | 4.46          | 2.55        |
| Sulphate cinchonidine crystallized ...     | 1.74          | 0.94        |
| Total sulphates, excluding cinchonine ...  | 6.20          | 3.49        |

As at the present time the prices of Cinchona bark in English market are high, I should strongly recommend that the bark be sent, *via* Suez Canal, in order to avoid delay.

The Government will of course do, as is considered best, about making the analyses of the barks known before sale. But of the red barks, I should certainly recommend that only the amounts of "Total alkaloids" and "Total sulphates, excluding cinchonine," be made known.

No. 34. ORDER THEREON, 4th August 1871, No. 1,340.

Miscellaneous.

COPY of Mr. Broughton's letter will be transmitted to the Secretary of State, with the advice of despatch of the bark.

(True Extract.)

(Signed) A. DEC. SCOTT, Captain, R.E.,  
Under-Secy., P.W.D.,  
for Secy. to Govt.

To the Government Quinologist.  
,, the Commissioner of the Nilgiris.

Ed. F. R. Bantleman.

Ostacaminid

3<sup>rd</sup> August 1871

From,

Mr. John Broughton  
Government Zoologist

To,

W. Huddleston Esq.

Revenue Department

Sir,

The cases of Cinchona bark now  
packed in order to send to England are  
as follows:—

|    |                                 | lbs.     |
|----|---------------------------------|----------|
| 1  | Box Old moped Succubra          | 135      |
| 2  | " " " "                         | 135      |
| 3  | " " " "                         | 135      |
| 4  | " " " "                         | 145      |
| 5  | " " " "                         | 155      |
| 6  | " " " "                         | 161      |
| 7  | " " " "                         | 150      |
| 8  | " Small moped                   | 141      |
| 9  | " " " "                         | 143 1/2  |
| 10 | " " " "                         | 200      |
| 11 | " " " "                         | 164      |
| 12 | " " " "                         | 186      |
| 13 | " " " "                         | 90       |
| 14 | " Old moped                     | 14 1/2   |
|    | Unmoped                         | 123      |
| 15 | " " " "                         | 145 1/2  |
| 16 | " " " "                         | 142      |
| 17 | " moped Condaminia (Officialis) | 108      |
| 18 | " " " "                         | 182 1/2  |
| 19 | " " " "                         | 179      |
| 20 | " " " "                         | 173 1/2  |
| 21 | " ununmoped                     | 180      |
|    |                                 | 3188 1/2 |

Govt. of 1871

REVENUE.

THE GOVERNMENT ZOOLOGIST,

Esq., Esq., Esq.

Dated August 4th.

Recd.

For.

G. O., 4th August 1871, No. 1,310.

AUGUST.

NO. 33-34.

Cinchona bark for sale in England.—  
Directing that the Zoologist's report on analyses  
of — be transmitted to the Secretary of State.

The above have been analysed for the purpose of ascertaining as nearly as possible their mean yield in per centages of dry bark.

|                                                     | Old<br>mossed<br>Succirubra | Small<br>mossed<br>Succirubra | Unmossed<br>Succirubra | Unmossed<br>Official |
|-----------------------------------------------------|-----------------------------|-------------------------------|------------------------|----------------------|
| Total Alkaloids                                     | 7.61                        | 6.56                          | 5.43                   | 4.96                 |
| Quinine                                             | 1.17                        | 1.74                          | 2.09                   | 3.03                 |
| Cinchonidine & Cinchonine                           | 6.44                        | 4.82                          | 3.34                   | 1.93                 |
| Sulphate quinine<br>obtained crystallized           | 0.71                        | 1.25                          | 0.95                   | 3.14                 |
| Sulphate Cinchonidine<br>crystallized               | 4.66                        | 2.63                          | 2.18                   | 1.05                 |
| Total Crystalline Sulphates<br>Excluding Cinchonine | 5.37                        | 3.88                          | 3.13                   | 4.19                 |

The mossed Crown bark is of two ages, which have been unfortunately mixed in cases; their analyses yielded:—

|                                           | Oldest<br>trees | 2 <sup>d</sup><br>age |
|-------------------------------------------|-----------------|-----------------------|
| Total Alkaloids                           | 7.41            | 4.73                  |
| Quinine                                   | 4.57            | 2.76                  |
| Cinchonidine & Cinchonine                 | 2.84            | 1.77                  |
| Sulphate quinine obtained<br>crystallized | 4.46            | 2.55                  |
| Sulphate Cinchonidine<br>crystallized     | 1.74            | 0.94                  |
| Total Sulphates excluding<br>Cinchonine   | 6.20            | 3.49                  |

As at the present time the prices of Cinchona bark in English market are high, I should strongly recommend that the bark be sent via Suez Canal in order to avoid delay.

It is, as is considered best about making the analyses of the barks known for sale. But of the Red barks, I certainly recommend that only the "total alkaloids" and "total sulphates excluding cinchonine" be made known.

I have the honor to be

Sir,

Your most Obedt. Servant

John Broughton.

Genl. Quinologist

