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MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	<u>715</u>	Press Mis.
Dated	<u>8-3-</u>	<u>1878.</u>

Not to be folded or roughly handled911
2/7/38

Copy.

Analytical Laboratory
106. Fenchurch St.
London. 28th Feby. 1878

To

Sir Louis Mallet. C.B.
Under Secretary of State for India

Sir

I now beg to report to you, as
stated below, the results of my
analyses of the eleven samples of
Cinchona bark received from the
India Office on the 29th ulto.

No. 1. Bodabetta Cinchona officinalis (Crown bark)
Natural bark; 13 years old tree bark.

Quinine	per cent. 3.05	= Cryst ^d Quinine Sulphate 4.11
Cinchonidine	1.34	
Cinchonine	.20	
Amorphous Alkaloid	54	
Total alkaloid	5.13	

No. 2

No. 2. Sodabetta Cinchona officinalis (Crown bark)

Natural bark; 9 and 10 years old tree bark.

	per cent	Cystd Quinine Sulphate
Quinine	2.15	2.90
Cinchonidine	.89	
Cinchonine	.14	
Amorphous alkaloid	2.9	
Total alkaloid	3.47	

No. 3. Sodabetta Cinchona officinalis (crown bark)

10 and 11 years old tree bark; under more 2 years.

	per cent	Cystd Quinine Sulphate
Quinine	2.95	3.98
Cinchonidine	1.22	
Cinchonine	.20	
Amorphous Alkaloid	3.2	
Total Alkaloid	4.69	

No. 4. Sodabetta Cinchona officinalis (crown bark)

Renewed bark 10 and 11 years old tree bark renewed 2 years.

	per cent	Cystd Quinine Sulphate
Quinine	3.54	4.77
Cinchonidine	.72	
Cinchonine	.53	
Amorphous alkaloid	3.8	

No. 5. Sodabetta Cinchona officinalis (Crown bark)

Branch bark.

	per cent	Cystd Quinine Sulphate
Quinine	1.12	1.51
Cinchonidine	.59	
Cinchonine	.14	
Amorphous alkaloid	.12	
Total alkaloid	1.97	

No. 6. Pykarra 1847 Mossed Crown bark.

	per cent	Cystd Quinine Sulphate
Quinine	2.40	3.24
Cinchonidine	1.12	
Cinchonine	.22	
Amorphous alkaloid	.34	
Total alkaloid	4.08	

No. 7. Neddiwutthum 1847 Mossed Crown bark.

	per cent	Cystd Quinine Sulphate
Quinine	3.06	4.12
Cinchonidine	1.41	
Cinchonine	.41	
Amorphous alkaloid	.57	
Total alkaloid	5.45	

No. 8. Pykarra 1877 Unmossed Crown bark.

Quinine	per Cent	=	Cryst Quinine Sulphate
2.46			3.32
Cinchonidine	1.10		
Cinchonine	.40		
Amorphous alkaloid	.26		
Total alkaloid	4.22		

No. 9. Neddiwutturn 1877 Unmossed Crown bark.

Quinine	per Cent	=	Cryst Quinine Sulphate
3.14			4.24
Cinchonidine	1.16		
Cinchonine	.15		
Amorphous alkaloid	.36		
Total alkaloid	4.81		

No. 10. Pykarra 1877 Renewed Crown bark

Quinine	per Cent	=	Cryst Quinine Sulphate
3.22			4.34
Cinchonidine	.75		
Cinchonine	.27		
Amorphous alkaloid	.57		
Total alkaloid	4.81		

No. 11. Neddiwutturn 1877 Renewed Crown bark

Quinine	per Cent	=	Cryst Quinine Sulphate
2.96			3.99
Cinchonidine	.50		
Quinidine	.11		
Cinchonine	.29		
Amorphous alkaloid	.50		
Total alkaloid	4.36		

As Quinine is used and sold chiefly in a state of combination with Sulphuric acid and some water, as a crystallized Quinine Sulphate the commercial valuation of cinchona bark is based upon the amount of quinine Sulphate obtainable from it, and, therefore, I have stated, in each case, the quantity of quinine Sulphate corresponding to the amount of quinine in the several samples of bark.

I have &c

(Signed) B. A. Paul.

4th

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No. 10

Copy Report by Dr. B. H. Paul
dated 28th February 1878.

To be printed

Report to in Revenue Letter to
Madras, No. 17, dated 28th March 1878

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India Office, London.
28th March, 1878.

Revenue

No. 17

My Lord Duke,

With reference to
the Letter of your Excellency's
Government, No. 64 of the
6th October 1877, in which
advice was given of the
despatch of a case
containing samples of
Chinchona bark for
Analysis, I have to
inform you that the
samples were sent to
Dr. B. H. Paul, a
professional analyst
recommended

To/ His Excellency

The Most Noble

The Governor in Council,

Fort Saint George.

re
H.V.

recommended by Mr. J. E.
Howard, and I herewith
transmit a copy of
that gentleman's report.

Dated 28th February 1878.

I have the honor to be,

My Lord Duke,

Your Grace's most obedient
humble servant.

Selwyn

✓ No 9

Requie

28th March 1878.

The
Letter to Fort St. George

No 17

No 715

communicated to the
Ad. Comd. of the Nilgiris
with reference to his
letter of the 1st Dec. 77 No 118.

2. It is desired
that in the case of
Samples Nos 5-11
particulars as to the
age of the trees, the
length of time under
sap or blue wood are
not given. These will
now be reported

Sub

gell

8th May 1878

To the Commandant of the
Nilgiris District

Dispatch

Intimating that the
samples of finished were
sent to Dr. B. H. Paul, a
professional Analyst
recommended by Mr. J. E.
Howard, and submitting
a copy of that gentleman's
report.

with order

No 715-8 May 1878

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