

(1) Number of pages 36(2) Date of repair 12-8-38(3) Initials of the Referencer J

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	705	Press Mis.
Dated	4-6-	1884.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following despatch from the Right Honorable the EARL OF KIMBERLEY, Her Majesty's Secretary of State for India, to His Excellency the Right Honorable the Governor in Council, Fort St. George, dated India Office, London, 30th April 1884, No. 21 (Revenue):—

Referring to your Secretary's letter No. 29, of the 22nd May (Revenue), notifying the transmission per S.S. *Ravenna* of 59 bales of Cinchona bark weighing 5,900 pounds net and valued at £590, I have to inform your Excellency that the bark in question has been converted into 393 pounds of Febrifuge.

Freight	£.	s.	d.	£.	s.	d.
Wharfage and other charges	38	4	9			
	16	7	4	54	12	1
393 pounds febrifuge at 8d. per oz.	209	12	0			
Packing		4	18	3		
Analysis		3	3	0		
Labels		0	4	0		
				217	17	3
				272	9	4

2. Samples of the bark and of the febrifuge were analysed and furnished the results shown in the accompanying statement.

3. The expenditure in connection with the freight and manufacture of the bark is given in the margin.

ENCLOSURES.

MESSRS. HOWARDS AND SONS.

DEAR SIR,

The samples of Cinchona febrifuge ex bark per "*Ravenna*," received on the 25th instant gives the following results on analysis:—

Quinine...	...	...	...	...	...	...	18.10
Quinidine	...	...	...	...	...	...	1.26
Cinchonidine	...	...	...	...	...	...	30.76
Cinchonine	...	...	...	...	...	...	32.20
Amorphous	...	...	...	...	...	...	9.00
Ash	...	...	...	...	...	...	2.10
Water and coloring material	...	...	...	...	...	...	6.58
							100.

LONDON,
29th February 1884.

(Signed) B. H. PAUL.

CINCHONA BARK CERTIFICATE.

TO THE UNDER-SECRETARY OF STATE FOR INDIA,
India Office.

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 185—206 22 bales ex "*Ravenna*," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate	1.54	107½ Grains.
Crystallized Quinidine Sulphate	—	—
Crystallized Cinchonidine Sulphate	3.88	271½ "
Cinchonine (Alkaloid)	1.30	91 "
Amorphous	1.00	70 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 207—213 7 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	2.15	150½ Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	3.60	252 "
Cinchonine (Alkaloid) ...	2.24	156½ "
Amorphous ...	1.00	70 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 214—220 7 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	2.01	140½ Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	3.84	268½ "
Cinchonine (Alkaloid) ...	2.26	158½ "
Amorphous ...	0.90	63 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 221,—ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	3.04	212½ Grains.
Crystallized Quinidine Sulphate ...	trace	—
Crystallized Cinchonidine Sulphate ...	2.08	145½ "
Cinchonine (Alkaloid) ...	1.76	123½ "
Amorphous ...	0.80	56 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 222—225 4 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	3.39	237½ Grains.
Crystallized Quinidine Sulphate ...	trace	—
Crystallized Cinchonidine Sulphate ...	2.10	147 "
Cinchonine (Alkaloid) ...	1.60	112 "
Amorphous ...	0.70	49 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 226—229 4 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	1.52	106½ Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	1.78	124½ "
Cinchonine (Alkaloid) ...	0.66	46½ "
Amorphous ...	0.90	63 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked N. 230—231 2 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	1.33	93 Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	1.58	110½ "
Cinchonine (Alkaloid) ...	0.50	35 "
Amorphous ...	0.92	64½ "

The sample of Cinchona Bark received from you on the 17th ultimo, marked P. 232—236 5 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	1.63	114 Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	4.08	285½ "
Cinchonine (Alkaloid) ...	1.04	72½ "
Amorphous ...	1.10	77 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked P. 237 ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	2.31	161½ Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	4.22	295½ "
Cinchonine (Alkaloid) ...	1.76	123½ "
Amorphous ...	1.00	70 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked P. 238—241 4 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	4.12	288½ Grains.
Crystallized Quinidine Sulphate ...	trace	—
Crystallized Cinchonidine Sulphate ...	2.30	161 "
Cinchonine (Alkaloid) ...	1.70	119 "
Amorphous ...	0.40	28 "

The sample of Cinchona Bark received from you on the 17th ultimo, marked P. 242—243 2 bales ex "Ravenna," gives the following results on analysis:—

	Per cent.	1 lb. (= 7,000 Grains) of the Bark contains
Crystallized Quinine Sulphate ...	2.15	150½ Grains.
Crystallized Quinidine Sulphate ...	—	—
Crystallized Cinchonidine Sulphate ...	1.90	133 "
Cinchonine (Alkaloid) ...	0.64	44½ "
Amorphous ...	1.20	84 "

LONDON,
4th August 1883.

(Signed) B. H. PAUL.

ORDER—dated 4th June 1884, No. 705, Revenue.

Miscellaneous.

Communicated to the Director of
Government Cinchona Plantations, Parks
and Gardens.

(True Extract.)

(Signed) H. E. STOKES,
Secretary to Government.

To the Director, Government Cinchona Plantations, Parks and
Gardens, Nilgiris.

„ the Board of Revenue.
„ the Superintendent, Government Central Museum.
„ the Surgeon-General with the Government of Madras.
„ the Honorary Secretary, Agri-Horticultural Society, Madras.

Exd. W. H. French.

70 Copies.

Original
 Govt. of (1884) Madras
 REVENUE.

Issued

Recd.

Encl.

G.O., 4th June 1884, No. 705.

JUNE.

Cinchona Bark.

Despatch from the Secretary of State forwarding a statement showing the results of the analyses of the 59 bales of — sent per S. S. *Ravenna*, communicated to the Director of Government Cinchona Plantations, Parks and Gardens.

717
 Analytical Laboratory
 13 Finchchurch Avenue E.
 London, 29th Feb^y 1884.

Mess^{rs} Howards & Sons.

Dear Sir,

The sample of Cinchona febrifuge ex bark per "*Ravenna*" received on the 25th instant gives the following results on analysis:

Quinine	18.10
Quinidine	1.26
Cinchonidine	30.76
Cinchonine	32.20
Amorphous	9.00
Ash	2.10
Water & Colouring	6.58
Material	
	100.

(S^d) Benj. H. Paul.

Stafford E.

Chemical Laboratory
12 Church Street, London, W.
August 1885.

Cinchona Bark Extract.

In the Under Secretary of State for India
India Office

The sample of Cinchona Bark received
from you on the 27th ultimo marked
N^o 185 22 bales as "Kassim" gives the
following results on analysis:

Subst.	1 lb (= 7000 grains) of the substance contains
Crystallized Quinine Sulphate. 1.54	107 ³ / ₄ grains
Crystallized Quinine Sulphate. —	—
Crystallized Cinchonidine Sulphate. 3.88	271 ¹ / ₂ "
Cinchonine. (4 bales). 1.30	91 "
Amorphous. 100	70 "

(S^d) J. J. D. H. J. J.

513

With reference to the
List no. 54, the Under
Secretary is informed that the
Statement of Cinchona Bark
Analysis is to be printed along with
the form.

A
W.

4477

Chemical Laboratory
13 Leicestersquare W.
London, W¹, August 1883.

Cinchona Bark Extract.

To the Undersecretary of State for India,
India Office

The sample of Cinchona Bark received
from you on the 17th ultimo marked
N^o $\frac{207}{213}$ of bales of "Kamara" gives the
following results on analysis:

	Per cent.	1 lb (= 7000 grains) of the Bark contains
Crystallized Quinine Sulphate	2.15	150 $\frac{1}{2}$ grains
Crystallized Quinine Sulphate		— "
Crystallized Cinchonidine Sulphate	3.60	2.52 "
Cinchonidine (40 percent)	2.24	156 $\frac{3}{4}$ "
Amorphous	1.00	70 "

(J^{rs} J^{rs} J^{rs}) H. J. J.

4971

Analysed Laboratory. 4
13 Finchurch Avenue E.
London, 11th August 1883.

Cinchona Bark Residue.

To the Under Secretary of State for India,
India Office

The sample of Cinchona Bark received
from you on the 17th ultimo marked
N^o $\frac{211}{220}$ of bales as "Kavara" gives the
following results on analysis:-

	Per cent.	1 lb (= 7000 grains) of the bark contains
Crystallized Quinine Sulphate	2.01	110 $\frac{3}{4}$ grains
Crystallized Quinidine Sulphate	—	— "
Crystallized Cinchonidine Sulphate	3.84	268 $\frac{3}{4}$ "
Cinchonine. (all barks)	2.26	158 $\frac{1}{4}$ "
Amorphous	0.90	63 "

(S^d) Wm H. Dall.

1877

Analytical Laboratory.
13 Finch Church Avenue E.C.
London, 11th August 1883.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
N. 221 ——— as "Ravenna" gives the
following results on analysis:—

Per cent.	1 lb (= 7000 Grains) of the Bark contains.
Crystallized Quinine Sulphate. 3.04	• • 212 $\frac{3}{4}$ Grains
Crystallized Quinidine Sulphate. trace	• • — "
Crystallized Cinchonidine Sulphate. 2.08	• • 145 $\frac{1}{2}$ "
Cinchonine (Alkaloid)..... 1.76	• • 123 $\frac{1}{6}$ "
Amorphous..... 0.80	• • 56 "

(S^d) J. D. H. Paul.

H⁷⁷

Analytical Laboratory.
13 Finch Church Avenue & Co.
London, 4th August 1883.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
N²²²/₂₂₅ 11 bales — of "Ruverma" gives the
following results on Analysis:—

Per Cent.	1 lb (= 7000 Grains) of the Bark contains.
Crystallized Quinine Sulphate, 3.39	237 1/4 Grains
Crystallized Quinidine Sulphate, trace	— "
Crystallized Cinchonidine Sulphate, 2.10	147 "
Cinchonine, (Alkaloid), ... 1.60	112 "
Amorphous, ... 0.70	49 "

(S^d) By: H. Paul.

2177

Analytical Laboratory.
13 Church Avenue & Co.
London, 11th August 1883.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
N^o ²²⁶/₂₂₉ 4 bales - of "Kavenna" gives the
following results on analysis:-

Per cent.	1 lb (= 7000 grains) of the Bark contains.
Crystallized Quinine Sulphate. 1.52	106 $\frac{1}{2}$ grains
Crystallized Quinine Sulphate. —	— "
Crystallized Cinchonidine Sulphate. 1.78	124 $\frac{1}{2}$ "
Cinchonines (Alkaloids).....0.66	46 $\frac{1}{4}$ "
Amorphous.....0.90	63 "

(S^d) Wm. H. Perkin.

Perkin

2171

Analytical Laboratory. 8
-13 Church Street &c.
London, 11th August 1853.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
N^o 23 of 2 bales - of "Kavenna" gives the
following results on Analysis:-

Residue.	1lb (= 7000 Grains) of the Bark contains.
Crystallized Quinine Sulphate, 133	93 Grains
Crystallized Quinidine Sulphate. —	— "
Crystallized Cinchonidine Sulphate. 158	110 1/2 "
Cinchonine. (Alkaloid). 030	35 "
Amorphous. 092	64 1/2 "

(S^d). (Sign: H. Paul.

2471

Analyst & Laboratory. 9
13 Leicestershire St. E.C.
London, 16th August 1853.

Cinchona Bark Extract.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
P²³²/₂₃₆ 5 bales of "Nassau" gives the
following results on analysis:-

Percent.		1 lb (= 7000 Grains) of the Bark contains	
Crystallized Quinine Sulphate.	1.63	.	114 Grains
Crystallized Quinine Sulphate.	—	.	— "
Crystallized Cinchonidine Sulphate.	4.08	.	285½ "
Cinchonine. (Atkalent.)	1.04	.	72¾ "
Amorphous.	1.10	.	77 "

(S^d) J. J. W. H. Paul.

2177

Analytical Laboratory. 10
13 Finch Church Avenue & Co.
London, 11th August 1883.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
P. 237 is "Kavama" gives the
following results on analysis:-

Per cent.		1 lb (= 7000 grains) of the Bark contains.
Crystallized Quinine Sulphate	2.31	161 ³ / ₄ grains
Crystallized Quinidine Sulphate	—	" " "
Crystallized Cinchonidine Sulphate	4.22	295 ¹ / ₂ "
Cinchonine (alkaloid)	1.76	123 ¹ / ₄ "
Amorphous	1.00	70 "

(S^d) J. Berri. H. Paul.

Dr 717

Analytical Laboratory.
13 Finchurch Avenue & Co.
London, 4th August 1883.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
P. 238
5711 11 bales - of "Kavenna" gives the
following results on Analysis:-

	Per Cent.	1 lb (= 7000 grains) of the Bark contains.
Crystallized Quinine Sulphate	4.12	288 1/2 grains
Crystallized Quinidine Sulphate	trace	— "
Crystallized Cinchonidine Sulphate	2.30	161 "
Cinchonine. (Alkaloid)	1.70	119 "
Amorphous	0.40	28 "

(S^a) Berz. H. Paul.

21717

Analytical Laboratory,
13 Finchchurch Avenue, E.C.
London, 4th August 1883.

Cinchona Bark Certificate.

To the Under Secretary of State for India,
India Office.

The sample of Cinchona Bark received
from you on the 17th ultimo marked
P. $\frac{2.42}{211.5}$ ——— of "Kueenwa" gives the
following results on analysis:—

	Per cent.	1 lb (= 7000 grains) of the Bark contains.
Crystallized Quinine Sulphate.	2.45	150 $\frac{1}{2}$ grains
Crystallized Quinidine Sulphate.	—	— "
Crystallized Cinchonidine Sulphate.	1.90	133 "
Cinchonine. (Alkaloid).	0.64	44 $\frac{3}{4}$ "
Amorphous.	1.20	84 "

(S^d) J. Berth. H. Paul.

18.
H. - 11.

Longworth

No. 16.

Statement.

Referred to in Revenue Letter to
Madras, No. 21, dated 30th April 1884.
Para. 2.

Rev. 3364/84

77.



Revenue.

No. 21.

India Office,
London, 30th April, 1884.

Sir,

Referring to your
Secretary's Letter No.
29 of the 22nd May
(Revenue), notifying
the transmission
per s.s. "Ravenna" of
59 Bales of Chinchona
Bark weighing 5.900
pounds nett and valued
at £590. I have to
inform Your Excellency
that the bark in
question has been
converted into 393
pounds of febrifuge.
2. Samples of the
bark and of the
febrifuge were —
analysed and —

His Excellency,

The Right Honorable,

The Governor in Council,
Fort St. George.

G.B.

furnished

Freight	38.4.9	£. s. d
Therefor other charges.	<u>16.7.4</u>	54. 12. 1
393 lbs. Tebrifago at 80g.	209. 12. 0	
Packing.	4. 18. 3	
Analyses	3. 3. 0	
Labels.	<u>4. 0</u>	
		217. 17. 3
		<u>£ 372. 9. 4.</u>

furnished the results shown in the — accompanying Statement. The expenditure in connection with the freight and manufacture of the bark is given in the margin.

I have the honor to be,

Sir,

Your most obedient.

Humble Servant,

Kimberly

N^o 15

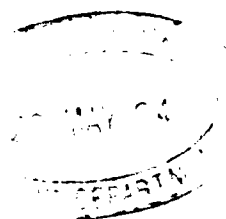
Revenue

30th April 1894

The

Secretary, Fort St George

N^o 21.



Recd from Mr.

22/5

5/11/94

589/22 May/88 no 29

REVENUE (1884) DEPARTMENT.

No. 3364

From *Secy.*
The Secretary of State

Dated 30. April. 1884
Recd. 26. May.

No. 21 Nov.

Print
4/5

SUBJECT.

It being that the 57 bales of
Cinchona bark forwarded
for the "Hannan" have been
committed into 373, 400 &
of 7 bales & enclosing a
statement showing the
results of the analysis
thereof.

Order No. 405 of 4. 6. 84.

Comd to the Director of
Govt Cinchona Plantations, Parks
& Gardens.

By

59/8

59/8
The Director of the
Parks & Gardens
16. 6. 84.
5. 5. 84.
5. 5. 84.
5. 5. 84.
5. 5. 84.