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MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1373	Press Mis.
Dated	6-12-1882.	

Not to be folded or roughly handled

6TH DECEMBER 1882, No. 1373, REVENUE.

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

READ—the following Despatch from the Most Honorable the MARQUIS of HARTINGTON, 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, 21st September 1882, No. 34 (Revenue):—

Your Secretary's letters of the 20th December 1881, No. 5, the 4th January, No. 4, the 7th February, No. 15, and the 21st February last, No. 18, enclosed particulars of bark from the Government Chinchona Plantations, Nilgiris, forwarded to this country per steamships *El Dorado*, *Manora*, *Merkara*, and *Teheran*, respectively.

2. This bark, amounting in all to 723 bales, was made over to Messrs. Howard and Sons for the manufacture, on account of Government, of sulphate of quinine and other alkaloids. Particulars of the analyses of each kind of bark and of the products obtained, together with the cost incurred for freight, insurance, agency, and manufacture, &c., are given in the enclosed statements.

3. As these barks were all worked together, it is not possible to show what amount of the various alkaloids was obtained from each shipment respectively. The

Quinine sulphate	...	...	...	lb.	3924.5
Cinchonidine sulphate	...	...	...	550	
Quinidine sulphate	...	...	...	0.25	
Cinchonine sulphate	...	...	...	204.25	
Mixed tartrates	...	...	...	215	
Febrifuge	...	...	...	816	

total quantities delivered by the manufacturers are, however, given in the margin. These, it will be observed, include 550 lb. of sulphate of chinchonidine, which drug is not apparently much in demand by the Indian Medical Department, and as there is a scarcity of it in the market in this country in consequence of a large demand from the United States, Messrs. Howard and Sons offered to take the whole of it in part payment of their manufacturing charges at the rate of 1s. 8d. per oz. This offer was accepted, and the cash payment to them was consequently reduced to 2,918l. 8s. 3d., their total charges being 3,651l. 15s. 4d.

4. Messrs. Jenkin and Phillips have drawn attention to the circumstance that the bales of bark from the Naduvatam plantations are marked on the under instead of on the front side, which causes inconvenience in handling them at the wharf, and they have requested that in future they may be marked in a similar way to those from the Pykara and Dodabetta plantations.

ENCLOSURE.

Particulars of 230 Bales of Bark from the Government Chinchona Plantations, Naduvatom and Pykara, Nilgiris, received per steamship *El Dorado*, January 1882.

Mark.	Number.	Description of Bark.	ANALYSIS.			
			Quinine Sulphate.	Quinidine Sulphate.	Chinchonidine Sulphate.	Chinchonine (Alkaloid).
N	202, 203, 205, 208 to 213 ..	Natural red bark	Per cent. 1.42	Per cent. —	Per cent. 3.40	Per cent. 1.90
N	214 to 219	Scraped trunk red bark	1.05	—	3.02	1.00
N	1 to 54, 56 to 59, 71 to 89, 91 to 95 ..	Renewed crown bark	5.35	trace	0.56	trace
NC	170 to 185, *281 to 286 ..	Natural crown bark	3.13	—	1.28	"
P	186 to 230, 232, 233, *246, 264 to 276 ..	Renewed crown bark	5.39	trace	0.66	"
P	†231, 234, 235, 247, 277 to 280 ..	Mossed crown bark	3.89	"	1.04	"
P	248 to 263	Branch crown bark	1.78	—	0.60	"
P	287 to 292	Dust	1.42	—	1.04	0.30

* Erroneously entered in invoice as "mossed crown bark."
† Do. do. do. as "renewed crown bark."

Charges paid in this Country in connection with the above consignment.

	£.	s.	d.
Entry	0	2	6
Fire insurance	12	15	0
Freight	128	13	8
Wharf charges	24	18	10
Agency, &c.	29	5	0
Analyses	195	15	0
	12	12	0
Total	208	7	0

Particulars of 155 Bales of Bark from the Government Chinchona Plantations, Naduvatom and Pykara, Nilgiris, received per steamship *Manora*, February 1882.

Mark.	Number.	Description of Bark.	ANALYSIS.			
			Quinine Sulphate.	Quinidine Sulphate.	Chinchonidine Sulphate.	Chinchonine (Alkaloid).
N	1 to 46	Natural crown bark	Per cent. 3.28	Per cent. —	Per cent. 1.30	Per cent. 0.28
NC	1 to 41	Mossed crown bark	3.93	trace	1.32	0.40
NC	55, 70, 90, 96, 97 ..	Renewed crown bark, sun dried ..	5.02	"	0.90	0.30
NC	98 to 112	Renewed crown bark	5.45	"	0.76	trace
NC	1 to 17	Branch crown bark	1.45	—	0.62	"
P	18 to 20	Branch crown bark, sun dried ..	2.01	—	0.92	"
P	1 to 28	Renewed red bark	1.70	—	2.42	1.60

Charges paid in this Country in connection with the above consignment.

	£.	s.	d.
Entry	0	2	6
Fire insurance	98	5	2
Freight	15	12	7
Wharf charges	19	17	6
Agency, &c.	140	9	9
Analyses	11	0	6
Total	151	10	3

Particulars of 200 Bales of Bark from the Government Chinchona Plantations, Naduvatom, Nilgiris, received per steamship *Merikara*, March 1882.

Mark.	Number.	Description of Bark.	ANALYSIS.				
			Quinine Sulphate.	Quinidine Sulphate.	Chinchonidine Sulphate.	Chinchonine (Alkaloid).	Amorphous Alkaloid.
N	1 to 20, 146 to 155, 164.	Renewed red bark.	Per cent. 2.69	Per cent. —	Per cent. 2.04	Per cent. 1.40	Per cent. —
N	* 21 to 100, 136 to 140.	Scraped trunk red.	1.52	—	3.04	1.00	0.68
N	101 to 135.	Red bark prunings.	1.12	—	1.56	0.50	0.50
N	141 to 145, 167 to 170.	Natural trunk red.	0.75	—	0.92	1.20	0.76
N	156 to 159, 165, 166.	Root red bark.	1.05	—	2.24	3.64	0.80
N	160 to 163.	Mossed red bark.	1.92	—	3.34	2.20	0.36
N	1 to 5.	Pubescens prunings.	1.42	—	1.32	0.40	0.38
N	6 to 17.	Natural trunk pubescens (glabrous var.).	2.76	—	3.30	0.40	0.41
N	18 to 24.	Natural trunk pubescens (pubescent var.).	3.18	—	2.94	0.30	0.40
N	25 to 27.	Natural trunk calisaya (var Anglica).	1.42	—	1.12	2.00	0.68
N	28 to 30.	Calisaya prunings.	0.96	—	0.28	1.10	0.80

* Nos. 21 to 25 entered in detailed invoice as "renewed red bark."

Charges incurred in this Country in connection with the above consignment.

	£.	s.	d.
Entry	0	2	6
Fire insurance	100	3	6
Freight	20	10	1
Wharf charges	25	10	0
Agency, &c.	152	6	1
Analyses	17	7	6
Total	169	13	7

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6TH DECEMBER 1882, No. 1373, REVENUE.Particulars of 138 Bales of Bark from the Government Chinchona Plantations, Dodabetta, Nilgiris, received per steamship *Teheran*, March 1882.

Mark.	Number.	Description of Bark.	ANALYSIS.			
			Quinine Sulphate.	Quinidine Sulphate.	Chinchonidine Sulphate.	Chinchonine (Alkaloid).
AD CR	241	Renewed crown bark, planting 1866, No. 11; renewed in two years; dried in the sun.	Per cent. 5.21	Per cent. trace.	Per cent. 0.52	Per cent. trace.
AD CR	242 to 253	Ditto, ditto, ditto; dried artificially.	5.71	"	0.46	"
AD CM	254, 255	Mossed crown bark, planting 1866, No. 11; two years under moss; dried in the sun.	4.35	"	1.08	"
AD CM	256 to 267	Ditto, ditto, ditto; dried artificially.	3.95	"	1.23	"
AD CN	268	Natural crown bark, planting 1866, No. 11; two years under moss; dried in the sun.	3.23	"	0.92	"
AD CN	269 to 276	Ditto, ditto, ditto; dried artificially.	2.90	"	0.90	"
AD CR	277 to 292	Renewed crown bark, planting 1863, Nos. 1 and 4; renewed in two years.	5.60	"	0.30	"
AD CM	293 to 303	Mossed crown bark, planting 1863, Nos. 1 and 4; two years under moss.	4.70	"	1.10	"
AD CN	304 to 309	Natural crown bark, planting 1863, Nos. 1 and 3.	3.32	—	1.04	"
AD CR	310 to 313	Renewed crown bark, planting 1866, No. 12; renewed in two years.	6.55	trace.	0.70	"
AD CM	314 to 317	Mossed crown bark, planting 1866, No. 12; two years under moss.	4.63	"	1.26	"
AD	318, 319	Renewed Pata de Galinzo; renewed in two years.	5.05	—	1.64	"
AD	320	Mossed Pata de Galinzo; two years under moss.	3.11	—	3.74	0.60
AD	321	Natural Pata de Galinzo; two years under moss.	2.29	—	2.66	trace.
AD	322	Renewed Uritusinga bark; two years under moss.	6.42	0.24	0.74	"
AD	323	Mossed Uritusinga bark; two years under moss.	5.90	trace.	1.10	"
AD	324	Natural Uritusinga bark, two years under moss.	3.65	"	0.98	"
AD CR	325 to 334	Renewed crown bark; scraped.	3.91	"	0.68	"
AD CM	335 to 337	Mossed crown bark; scraped.	3.60	"	1.02	"
AD CN	338 to 362	Natural crown bark; scraped.	1.80	—	0.70	"
AD	363 to 367, 369 to 372, 374 to 377	Branch crown bark; scraped.	0.79	—	0.36	"
AD CB	* 368, 373, 378	Ditto, ditto; re	2.47	trace.	0.57	"

* Entered as "branch crown bark scraped" in the detailed invoice.

Charges paid in this Country in connection with the above consignment.

Entry	£.	s.	d.
Fire insurance	0	2	6
Freight	5	8	0
Wharf charges	127	1	10
Agency, &c	14	4	11
	17	15	0

Analyses. ... 164 12 3
34 13 0

Total ... 199 5 3

ORDER—dated 6th December 1882, No. 1373, Revenue.

Miscellaneous.

Communicated to the Conservator of Forests.

(True Extract.)

(Signed) P. P. HUTCHINS,
Acting Secretary to Government.To the Conservator of Forests.
" Superintendent, Government Central Museum.

Exd. C. Vencatasubbier.

50 Copies.

Gobt. of (1882) Madras.
REVENUE.

Issued

Recd.

Encl.

G.O., 6th December 1882, No. 1373.

DECEMBER.

Chinchona Bark

Secretary of State's Despatch enclosing statements giving particulars of the analyses of different kinds of —, forwarded per steamships *El Dorado*, *Manora*, *Merkara* and *Teheran*, respectively, communicated to Conservator of Forests.

Despatch

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Secretary of State
India
London.

11th December
1882

34 Revenue

Print.
12-82

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... Chinchona bark of the
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