M.R.O. 1—77,006—8-6-37.

(1) Number of pages 22

(2) Date of repair 13.7.38

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1891	Press / Mis.
Dated	10-9-	1883.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Despatch from the Right Hon. 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, 31st July 1883, No. 16 (Revenue) :—

With your Excellency's letters noted in the margin, particulars were received of consignments of Nílgiri Cinchona bark to this country as follows :—

8th March 1882, No. 21.
1st May ,, ,, 30.
15th June ,, ,, 38.

360	bales per	Steamship	"Nepaul."
383	do.	do.	"India."
52	do.	do.	"Surat."

2. The last-named consignment did not arrive per Steamship "Surat" as advised, but by the Steamships "Carthage" and "Nepaul."

3. Details of the analysis of each different kind of bark, of the products obtained, and of the cost of manufacture and of other charges are given in the enclosed memorandum.

4. With this Despatch is also forwarded a collection of chips of wood and pieces of iron which Messrs. Howard took out of some of the bales *ex* Steamship "Nepaul." These consisted of bark from the Naduvatam and Pykara plantations. The attention of Professor Lawson should be drawn to this instance of careless packing.

5. The brokers have drawn attention to the fact that bales marked N. 259-271 inclusive in the detailed invoice of bark *ex* "Nepaul" are "natural bark" and not "prunings" as therein stated. By comparing the annexed statement relative to the bark *ex* Steamship "India" with the detailed invoice, it will be seen that several of the bales received by that vessel have also been incorrectly described.

6. The 31 lb. of sulphate of cinchonidine from bark *ex* Steamship "Nepaul" have been sold on account of Government for the net sum of 55*l.* 4*s.* 10*d.*, and the 100 lb. 12 oz. obtained from bark by the other two consignments were taken by Messrs. Howard and Sons in part-payment of their manufacturing charges for the sum of 188*l.* 1*s.* 4*d.*, being at the rate of 2*s.* 4*d.* per ounce.

7. I take this opportunity of requesting that a typographical error in my predecessor's Despatch, No. 34, of the 21st September last, may be corrected. It is there stated that the quantity of quinine delivered by the manufacturers from bark *ex* Steamships "Eldorado," "Manora," "Merkara," and "Teheran" was 3,924·5 lb. This should have been 2,139·25 lb.

—

ENCLOSURE.

Particulars of 360 bales of Cinchona Bark from the Government Cinchona Plantations, Naduvatam and Pykara, Nilgiris, received per Steamship "Nepaul," April 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
			PER CENT.	PER CENT.	PER CENT.	PER CENT.
N.	171-239 ..	Natural Red Bark (sun-dried) ..	1·20	3·28	1·64	0·70
N.	240-258 ..	Prunings (Red)	0·98	1·78	0·76	0·80
	272-274 ..					
	466-470 ..					
N.	259-271 ..	Natural Red Bark	1·07	2·80	1·20	0·80
N.	275-291 ..	Root Bark (Red)	1·03	2·64	3·50	0·74
	316-319 ..					
	457-465 ..					
N.	292-315 ..	Natural Red Bark	1·15	3·16	1·60	0·80
	320-343 ..					
	401-456 ..					0·80
N.	344-375 ..	Root Bark (Red), sun-dried	1·01	2·80	3·40	0·70
N.	376-400 ..	Prunings (Red), do.	1·07	1·96	0·80	0·70
P.	1-17 ..	Branch Red Bark, do.	1·57	1·84	0·70	0·98
P.	18-30 ..	Root Red Bark, do.	1·69	2·38	4·04	...
P.	31-44 ..	Renewed Red Bark, do.	3·11	2·22	1·90	0·60
P.	45-60 ..	Natural Red Bark, do.	1·47	3·02	1·24	

Products obtained by manufacture and cost of manufacture—

	LB.	OZ.	£	s.	d.
Sulphate of Quinine	43	6½	52	1	9
Do. of Cinchonidine	31	0	16	10	8
Do. of Cinchonine	32	4	17	4	0
Cinchona febrifuge	2,026	0	1,080	10	8
Bottles, packages, &c.	...		29	11	5
Total ...			1,195	18	6

Total charges paid in this country—

	£	s.	d.
Entry	0	2	6
Freight	237	12	5
Wharf charges	34	17	5
Receiving, housing, sampling, inspecting, and delivery to Messrs. Howard and Sons, at 2*s.* 6*d.* per bale	45	0	0
Petty expenses, porterage, &c.	0	10	0
	318	2	4
Analysis	22	11	6
Manufacturing, &c., charges as above	1,195	18	6
Total ...	1,536	12	4

Particulars of 383 bales of Cinchona Bark from the Government Cinchona Plantations, Naduvatam and Pykara, Nilgiris, received per Steamship "India," May 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
			PER CENT.	PER CENT.	PER CENT.	PER CENT.
N.	471-478 ..	Prunings, Red	1·30	1·70	0·74	0·84
	542-560 ..					
	638-653 ..					
	685-686 ..					
	699-701 ..					
	722-723 ..					
	725 ..					
	727-737 ..					
	756-758 ..					
N.	479-513 ..	Natural Red	1·50	3·54	1·66	0·90
	525-541 ..					
	570-637 ..					
	658 ..					
	670-680 ..					
	684 ..					
	687-698 ..					
	710-721 ..					
	733-740 ..					
	759 ..					
N.	514-524 ..	Root, Red	1·31	2·60	3·70	1·20
	561-569 ..					
	654-657 ..					
	659-669 ..					
	681-683 ..					
	726, 746 ..					
N.	702-709 ..	Dust	1·12	0·98	0·70	0·60
	724, 751 ..					
	760-761 ..					
N.	741-744 ..	Natural Crown	4·26	1·07	0·46	0·60
	753 ..					
N.	745, 754 ..	Renewed Crown	6·18	0·44	0·50	0·40
	747-749 ..		4·68	0·86	0·84	0·40
N.	752, 755 ..	Mossed Crown	3·42	2·58	2·26	0·80
N.	762 ..	Mossed Red				
P.	61, 64, 66 ..	Unmossed Red	1·40	2·98	1·56	0·80
	68, 69 ..					
P.	62, 63, 65-67.	Do.	1·54	3·36	1·08	0·90
	70-76 ..					
P.	77-80 ..	Branch, Red	1·42	2·26	0·84	0·80
	137-146 ..					
P.	81-87 ..	Root, Red	1·63	2·64	4·12	1·20
	121-128 ..					
	134-136 ..					
P.	88-120 ..	Renewed Red	3·50	2·04	2·22	0·74
P.	129-133 ..	Root, Red	1·57	3·66	3·38	0·90
N.P.C.	95-99 ..	Branch, Red	2·08	1·70	0·70	0·80

Products obtained by manufacture and cost of manufacture—

	LB.	OZ.	£	s.	d.
Sulphate of Quinine	177	12¼	213	6	0
Do. of Cinchonidine	77	0	41	1	4
Do. of Cinchonine	97	9¼	52	0	8
Cinchona febrifuge	2,102	0	1,121	1	4
Bottles, packages, &c.	...		41	11	6
Total ...			1,469	0	10

Total charges paid in this country—

	£	s.	d.
Entry	0	2	6
Freight	159	10	5
Wharf charges	35	18	10
Receiving, housing, sampling, inspecting, and delivery to Messrs. Howard and Sons, at 2*s.* 6*d.* per bale	47	17	6
Petty expenses porterage, &c.	0	10	0
	243	19	3
Analysis	31	10	0
Manufacturing, &c., charges as above	1,469	0	11
Total ...	1,744	10	1

Particulars of 52 bales of Cinchona Bark from the Government Cinchona Plantations, Wood Estate, Nilgiris, received per Steamships "Carthage" and "Nepaul," August 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
			PER CENT.	PER CENT.	PER CENT.	PER. CENT.
P.	293-322 ..	Natural Red Bark (sun-dried), forest land, coppiced, decaying trees.	1·30	1·82	1·00	0·60
P.	323-337 ..	Renewed Red Bark (sun-dried), forest land, coppiced, decaying trees.	2·34	1·54	1·60	0·60
P.	338-340 ..	Mossed Red Bark (sun-dried), forest land, coppiced, decaying trees.	1·80	2·08	1·74	0·80
P.	341-343 ..	Dust	1·29	0·76	0·75	0·30
N.	687 ..	Natural Red Bark, planting of 1869, grass land, Naduvatum, elevation 5,050 feet.	1·26	3·24	1·98	0·60

Products obtained by manufacture and cost of manufacture—

	LB.	OZ.	£	s.	d.
Sulphate of Quinine	36	2	43	7	0
Do. of Cinchonidine	23	12	12	13	4
Do. of Cinchonine	30	8	16	0	8
Cinchona febrifuge	178	0	94	18	8
Bottles, packages, &c.	...		5	9	6
Total ...			172	9	2

Total charges paid in this country—

	£	s.	d.
Entry	0	2	6
Freight	32	4	8
Wharf charges	5	5	5
Receiving, housing, sampling, inspecting and delivery to Messrs. Howard and Sons, at 2*s.* 6*d.* per bale	6	10	0
Petty expenses, porterage, &c.	0	10	0
Fire Insurance	0	9	0
	45	1	7
Analysis	9	19	6
Manufacturing charges, &c., as above	172	9	2
Total ...	227	10	3

ORDER—dated 10th September 1883, No. 1091, Revenue.

Miscellaneous.

The above despatch will be communicated to the Director of Government Cinchona Plantations, Parks and Gardens, Nilgiris, whose particular attention will be drawn to paragraphs 4 and 5, in view to the prevention in future of any repetition of the carelessness and inaccuracy therein commented on by the Secretary of State.

(True Extract.)

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

To the Director, Government Cinchona Plantations, Parks and Gardens, Nilgiris.
,, Surgeon-General with the Government of Madras.

Exd. J. Henricus.

30 Copies.

Govt. of {1883} Madras.

REVENUE.

Issued

Recd. *Encl.*

G.O., 10th September 1883, No. 1091.

SEPTEMBER.

Cinchona Bark.

Despatch from the Secretary of State forwarding memorandum of analysis of certain consignments of — sent to England, communicated to the Director of Government Cinchona Plantations, Parks and Gardens, Nilgiris, with remarks.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Despatch from the Right Hon. 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, 31st July 1883, No. 16 (Revenue) :—

With your Excellency's letters noted in the margin, particulars were received of consignments of Nilgiri Cinchona bark to this country as follows :—

8th March 1882, No. 21.
1st May „ „ 30.
15th June „ „ 38.

360 bales per Steamship "Nepaul."
383 do. do. "India."
52 do. do. "Surat."

2. The last-named consignment did not arrive per Steamship "Surat" as advised, but by the Steamships "Carthage" and "Nepaul."

3. Details of the analysis of each different kind of bark, of the products obtained, and of the cost of manufacture and of other charges are given in the enclosed memorandum.

* * * * *

ENCLOSURE.

Particulars of 360 bales of Cinchona Bark from the Government Cinchona Plantations, Naduvatam and Pykara, Nilgiris, received per Steamship "Nepaul," April 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
			PER CENT.	PER CENT.	PER CENT.	PER CENT.
N.	171-239 ..	Natural Red Bark (sun-dried) ..	1·20	3·28	1·64	0·70
N.	240-258 ..	Prunings (Red)	0·98	1·78	0·76	0·80
	272-274 ..					
	466-470 ..	Natural Red Bark	1·07	2·80	1·20	0·80
N.	259-271 ..	Root Bark (Red)	1·03	2·64	3·50	0·74
N.	275-291 ..					
	316-319 ..					
	457-465 ..					
N.	292-315 ..	Natural Red Bark	1·15	3·16	1·60	0·80
	320-343 ..					
	401-456 ..	Root Bark (Red), sun-dried	1·01	2·80	3·40	0·80
N.	344-375 ..	Prunings (Red), do.	1·07	1·96	0·80	0·70
N.	376-400 ..	Branch Red Bark, do.	1·57	1·84	0·70	0·70
P.	1-17 ..	Root Red Bark, do.	1·69	2·38	4·04	0·98
P.	18-30 ..	Renewed Red Bark, do.	3·11	2·22	1·60	..
P.	31-44 ..	Natural Red Bark, do.	1·47	3·02	1·24	0·80
P.	45-60 ..					

Products obtained by manufacture and cost of manufacture—

	LB.	OZ.	£	s.	d.
Sulphate of Quinine	43	6½	52	1	9
Do. of Cinchonidine	31	0	16	10	8
Do. of Cinchonine	32	4	17	4	0
Cinchona febrifuge	2,026	0	1,080	10	8
Bottles, packages, &c.	...		29	11	5
Total ...			1,195	18	6

Total charges paid in this country—

	£	s.	d.
Entry	0	2	6
Freight	237	12	5
Wharf charges	34	17	5
Receiving, housing, sampling, inspecting, and delivery to Messrs. Howard and Sons, at 2s. 6d. per bale	45	0	0
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Mark.	Number.	Description of Bark.	Analysis. Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
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	542-560 ..					
	638-653 ..					
	685-686 ..					
	699-701 ..					
	722-723 ..					
	725 ..					
	727-737 ..					
	756-758 ..					
N.	479-513 ..	Natural Red	1·50	3·54	1·66	0·90
	525-541 ..					
	570-637 ..					
	658 ..					
	670-680 ..					
	684 ..					
	687-698 ..					
	710-721 ..					
	733-740 ..					
	759 ..					
N.	514-524 ..	Root, Red	1·31	2·60	3·70	1·20
	561-569 ..					
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	681-683 ..					
	726, 746 ..					
N.	702-709 ..	Dust	1·12	0·98	0·70	0·60
	724, 751 ..					
	760-761 ..					
N.	741-744 ..	Natural Crown	4·26	1·07	0·46	0·60
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N.	745, 754 ..	Renewed Crown	6·18	0·44	0·50	0·40
	747-749 ..					
N.	752, 755 ..	Mossed Crown	4·68	0·86	0·84	0·40
N.	762 ..	Mossed Red	3·42	2·58	2·26	0·80
P.	61, 64, 66 ..	Unmossed Red	1·40	2·98	1·56	0·80
	68, 69 ..					
P.	62, 63, 65-67.	Do.	1·54	3·36	1·08	0·90
	70-76 ..					
P.	77-80 ..	Branch, Red	1·42	2·26	0·84	0·80
	137-146 ..					
P.	81-87 ..	Root, Red	1·63	2·64	4·12	1·20
	121-128 ..					
	134-136 ..					
P.	88-120 ..	Renewed Red	3·50	2·04	2·22	0·74
P.	129-133 ..	Root, Red	1·57	3·66	3·38	0·90
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	LB.	OZ.	£	s.	d.
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Bottles, packages, &c.	...		41	11	6
Total ...			1,469	0	10

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	243	19	3
Analysis	31	10	0
Manufacturing, &c., charges as above	1,469	0	11
Total ...	1,744	10	1

Particulars of 52 bales of Cinchona Bark from the Government Cinchona Plantations, Wood Estate, Nilgiris, received per Steamships "Carthage" and "Nepaul," August 1882.

Mark.	Number.	Description of Bark.	Analysis. Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
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P.	323-337 ..	Renewed Red Bark (sun-dried), forest land, coppiced, decaying trees.	2·34	1·54	1·60	0·60
P.	338-340 ..	Mossed Red Bark (sun-dried), forest land, coppiced, decaying trees.	1·80	2·08	1·74	0·80
P.	341-343 ..	Dust	1·29	0·76	0·75	0·30
N.	687 ..	Natural Red Bark, planting of 1869, grass land, Naduvatam, elevation 6,050 feet.	1·26	3·24	1·98	0·60

Products obtained by manufacture and cost of manufacture—

	LB.	OZ.	£	s.	d.
Sulphate of Quinine	36	2	43	7	0
Do. of Cinchonidine	23	12	12	13	4
Do. of Cinchonine	30	8	16	0	8
Cinchona febrifuge	178	0	94	18	8
Bottles, packages, &c.	...		5	9	6
Total ...			172	9	2

Total charges paid in this country—

	£	s.	d.
Entry	0	2	6
Freight	32	4	8
Wharf charges	5	5	5
Receiving, housing, sampling, inspecting and delivery to Messrs. Howard and Sons, at 2s. 6d. per bale	6	10	0
Petty expenses, porterage, &c.	0	10	0
Fire Insurance	0	9	0
	45	1	7
Analysis	9	19	6
Manufacturing charges, &c., as above	172	9	2
Total ...	227	10	3

ORDER—dated 10th September 1883, No. 1091A, Revenue.

Miscellaneous.

Ordered to be laid on the Editors' table.

(True Extract.)

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

Exd. J. Henricus.

20 Copies.

6—

Govt. of {1883} Madras.

REVENUE.

Issued

Recd. Right - [illegible] 27/9 *Encl.*

G.O., 10th Sept. 1883, No. 1091A.

SEPTEMBER.

Cinchona Bark.

Despatch from the Secretary of State forwarding memorandum of analysis of certain consignments of —, ordered to be laid on the Editors' table.

7—

India Office,
London, 31st July 1883.

Revenue,
No. 16.

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Sir,

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52 „ „ "Surat."

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1st May 1882, No. 30.
15th June 1882, No. 38.

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I have the honour to be,

Sir,

Your most obedient humble Servant,

Kimberley

1396

ENCLOSURE.

Particulars of 360 bales of Cinchona Bark from the Government Cinchona Plantations, Naduvatam and Pykara, Nilgiris, received per steamship "Nepaul," April 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Iphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
			Per cent.	Per cent.	Per cent.	Per cent.
N.	171–239 -	Natural Red Barl (sun dried)	1·20	3·28	1·64	0·70
N.	240–258 272–274 466–470	Prunings (Red) - -	0·98	1·78	0·76	0·80
N.	259–271 -	Natural Red Barl - -	1·07	2·80	1·20	0·80
N.	275–291 316–319 457–465	Root Bark (Red) - -	1·03	2·64	3·50	0·74
N.	292–315 320–343 401–456	Natural Red Bar. - -	1·15	3·16	1·60	0·80
N.	344–375 -	Root Bark (Red), sun dried -	1·01	2·80	3·40	0·80
N.	376–400 -	Prunings (Red), sun dried -	1·07	1·96	0·80	0·70
P.	1–17 - -	Branch Red Bark, sun dried -	1·57	1·84	0·70	0·70
P.	18–30 -	Root Red Bark, un dried -	1·69	2·38	4·04	0·98
P.	31–44 -	Renewed Red Bak, sun dried	3·11	2·22	1·90	—
P.	45–60 -	Natural Red Barl, sun dried -	1·47	3.02	1·24	0·80

Products obtained by manufacture, and cost of manufacture:—

	Lbs.	oz.	£	*s.*	*d.*
Sulphate of Quinine - -	43	6½ -	52	1	9
„ „ Cinchonidine -	31	0 -	16	10	8
„ „ Cinchonine -	32	4 -	17	4	0
Cinchona febrifuge - -	2,026	0 -	1,080	10	8
Bottles, packages, &c - -	-	-	29	11	5
			£1,195	18	6

Total charges paid in the country:—

	£	*s.*	*d.*
Entry - - - - -	0	2	6
Freight - - - - -	237	12	5
Wharf charges - - - -	34	17	5
Receiving, housing, sampling, inspecting, and delivery to Messrs. Howard & Sons at 2*s.* 6*d.* per bale - - -	45	0	0
Petty expenses, porterage, &c. - -	0	10	0
	318	2	4
Analysis - - - -	22	11	6
Manufacturing, &c., charges as above -	1,195	18	6
	£1,536	12	4

Particulars of 383 bales of Cinchona Bark from the Government Cinchona Plantations, Naduvatam and Pykara, Nilgiris, received per steamship "India," May 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
N.	471–478 542–560 638–653 685–686 699–701 722–723 725 727–737 756–758	Prunings, Red - -	Per cent 1·30	Per cent. 1·70	Per cent. 0·74	Per cent. 0·84
N.	479–513 525–541 570–637 658 670–680 684 687–698 710–721 733–740 759	Natural Red - -	1·50	3·54	1·66	0·90
N.	514–524 561–569 654–657 659–669 681–683 726, 746	Root, Red - - -	1·31	2·60	3·70	1·20
N.	702–709 724, 751 760–761	Dust - - -	1·12	0·98	0·70	0·60
N.	741–744 753	Natural Crown - -	4·26	1·07	0·46	0·60
N.	745, 754 747–749	Renewed Crown - -	6·18	0·44	0·50	0·40
N.	752, 755 -	Mossed Crown - -	4·68	0·86	0·84	0·40
N.	762 - -	Mossed Red - -	3·42	2·58	2·26	0·80
P.	61, 64, 66 68, 69	Unmossed Red - -	1·40	2·98	1·56	0·80
P.	62, 63, 65–67 70–76	Ditto, ditto - -	1·54	3·36	1·08	0·90
P.	77–80 137–146	Branch, Red - -	1·42	4·26	0·84	0·80
P.	81–87 121–128 134–136	Root Red - - -	1·63	4·64	4·12	1·20
P.	88–120 -	Renewed Red - -	3·50	3·04	2·22	0·74
P.	129–133 -	Root, Red - - -	1·57	3·66	3·38	0·90
N.P. C.	95–99 -	Branch, Red - -	2·08	1·70	0·70	0·80

Products obtained by manufacture, and cost of manufacture:—

	Lbs.	oz.		£	s.	d.
Sulphate of Quinine - -	177	12¼	-	213	6	0
„ „ Cinchonidine -	77	0	-	41	1	4
„ „ Cinchonine -	97	0¼	-	52	0	8
Cinchona febrifuge - -	2,102	0	-	1,121	1	4
Bottles, packages, &c. - -			-	41	11	6
				£1,469	0	10

Total charges paid in this country:—	£	s.	d.
Entry - - - - -	0	2	6
Freight - - - - -	159	10	5
Wharf charges - - - -	35	18	10
Receiving, housing, sampling, inspecting, and delivery to Messrs. Howard & Sons, at 2s. 6d. per bale - - -	47	17	6
Petty expenses, porterage, &c. - -	0	10	0
	243	19	3
Analysis - - - -	31	10	0
Manufacturing, &c., charges as above -	1,469	0	10
	£1,744	10	1

Particulars of 52 bales of Cinchona Bark from the Government Cinchona Plantations, Wood Estate, Nilgiris, received per steamships "Carthage" and "Nepaul," August 1882.

Mark.	Number.	Description of Bark.	Analysis.			
			Quinine Sulphate.	Cinchonidine Sulphate.	Cinchonine (Alkaloid).	Amorphous Alkaloid.
P.	293–322 -	Natural Red Bark (sun dried) forest land, coppiced, decaying trees.	Per cent. 1·30	Per cent. 1·82	Per cent. 1·00	Per cent. 0·60
P.	323–337 -	Renewed Red Bark (sun dried), forest land, coppiced, decaying trees.	2·34	1·54	1·60	0·60
P.	338–340 -	Mossed Red Bark (sun dried), forest land, coppiced, decaying trees.	1·80	2·08	1·74	0·80
P.	341–343 -	Dust - - -	1·29	0·76	0·75	0·30
N.	687 - -	Natural Red Bark, planting of 1869, grass land, Naduvatam, elevation, 5,050 feet.	1·26	3·24	1·98	0·60

Products obtained by manufacture, and cost of manufacture:—

	Lbs.	oz.		£	s.	d.
Sulphate of Quinine - -	36	2	-	43	7	0
„ „ Cinchonidine -	23	12	-	12	13	4
„ „ Cinchonine - -	30	8	-	16	0	8
Cinchona febrifuge - -	178	0	-	94	18	8
Bottles, packages, &c. - -			-	5	9	6
				172	9	2

Total charges paid in this country:—	£	s.	d.
Entry - - - - -	0	2	6
Freight - - - - -	32	4	8
Wharf charges - - - -	5	5	5
Receiving, housing, sampling, inspecting, and delivery to Messrs. Howard & Sons, at 2s. 6d. per bale - - -	6	10	0
Petty expenses, porterage, &c. - -	0	10	0
Fire insurance - - - -	0	9	0
	45	1	7
Analysis - - - - -	9	19	6
Manufacturing charges, &c., as above -	172	9	2
	227	10	3

No 15

GOVERNMENT OF MADRAS
29 AUG 83
REVENUE DEPARTMENT

Revenue

31st July 1883

To

Letter to Fort St. George

No 16 & Enclosure.

29 AUG 83

REVENUE (1883) DEPARTMENT.

No. 5450

Des.
From the Secretary of State for India

Dated 29th August 1883.
Recd. 4th Sept 83

No. (Rev.) 16

SUBJECT.

Acknowledging the receipt of certain Consignments of Chinchona Barks from the Madras Govt. enclosing Memorandum of Analysis of each different kind of bark &c and making certain remarks.

Order.

The above despatch will be Comd to the Director of Govt Cinchona Plantations, Parks and Gardens, Nilgiris. whose particular attention will be drawn to paras 4 & 5 in view to the prevention in future of any repetition of the embarrassment and inaccuracy herein commented on by the Secy. of State

1/x/83

10.9.83.

The Director, Govt. Cinch. P., P. & Gardens

Supdt Govt Central Museum

Govt. Surgeon General with Govt of Madras

27.9.83.

4.9.83.
5.9.83.

Home Dept
4/9/83

With an Order