

(1) Number of pages 64

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(3) Initials of the Referencer CP

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1409	Press Mis.
Dated	14-12-1882.	

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following letter from Major J. C. WALKER, Conservator of Forests, to the Secretary to Government, Revenue Department, dated 19th October 1882, No. 1256-C:—

I have the honor to submit the Budget Estimate of the Nilgiri Chinchona Plantations for the year 1883-84 with a brief explanatory note.

2. The total revenue of the past official year (1881-82), compared with the results of the two preceding years, shows a marked improvement, which is due to larger consignment of bark to England and the disposal thereof at better rates.

Actuals.	Revenue.
	RS.
1879-80	3,83,815
1880-81	4,34,261
1881-82	5,72,003

	1879-80.	1880-81.	1881-82.
	RS.	RS.	RS.
Establishments, &c. ..	13,923	13,931	17,264
Working expenses ..	55,796	82,174	96,305
Total ..	69,724	96,105	1,13,569

Actuals of 1881-82.	Sanctioned Estimate for 1882-83.	Regular Estimate for 1882-83.	Budget Estimate for 1883-84.
RS.	RS.	RS.	RS.
5,72,003	5,00,000	6,11,000	4,79,000

3. The expenditure has likewise exceeded the actuals of the previous years, increased outlay having been made on "Upkeep" and "Collection of crop."

4. *Revenue.*—The total regular and budget estimates under Revenue, compared with the actuals of 1881-82 and the sanctioned estimate for the current year, are shown in the margin.

5. The increase in the regular estimate has not been explained, but from the details of figures furnished by the officer in charge, it is presumed that a larger revenue from bark sales in

England is estimated. The regular estimate also provides a total revenue of Rs. 70,000 from sales in Madras of 400 bales of bark, as the past experimental sales have proved successful.

6. The budget estimate for 1883-84 shows a diminution of Rs. 1,32,000 in sales in England, but has not been explained. As, however, the actuals, the sanctioned and regular estimates are high, the total budget estimate may be raised to Rs. 5,00,000.

Upkeep	Rs. + 3,955	7. The total regular estimate under "Working expenses" compared with the sanctioned grant shows a net decrease of Rs. 19,619 as per margin.
Collection of crop	— 17,000	
Buildings	— 7,974	
Other items	+ 1,400	

8. The increase under "Upkeep" is provided for repairing the plantation roads, &c., damaged during the severe storms of the late south-west monsoon, as well as for replanting certain uprooted plots. The decrease under "Collection of crop" and "Buildings" is not explained, but under the latter it is apparently due to provision for Naduvatom buildings having been withdrawn agreeably to G.O., dated 13th February 1882, No. 397 W.

9. The total budget estimate compared with the regular estimate shows a net decrease of Rs. 12,255, appearing principally under "Buildings," against which a provision of Rs. 4,000 only is made for the year 1883-84 to meet the construction of cooly lines and for the Naduvatom water-supply project and some petty repairs.

10. Under "Establishments," &c., the regular and budget estimates are nearly identical, but compared with the sanctioned grant they show a small saving which is due to Mr. Rowson's resignation and the consequent revision made by the Conservator in the rates of pay of upper subordinates, i.e., the cessation of personal allowances.

Working expenses	Rs. 78,300	11. The estimate of the officer in charge under "Expenditure" may be admitted in round figures as specified in the margin.
Establishments, &c.	15,200	

ENCLOSURE.

From H. A. GASS, Esq., Deputy Conservator of Forests in charge Chinchona Plantations, to the Conservator of Forests, Madras, dated Ootacamund, 7th September 1882, No. 337-C.

I have the honor to submit the budget estimate of receipts and expenditure of the Government Chinchona Plantations, Nilgiris, for the official year 1883-84. As the instructions promised in paragraph 1 of G.O., No. 1955, of 21st December 1881, have not as yet been received, the budget has been prepared in the old form.

2. *Receipts.*—As all Government bark sent to England is worked up on Government account, and as the outturn of alkaloids from last year's crop and the value thereof have not been communicated, the regular and budget estimates can only be given very roughly. In calculation the actuals of 1881-82 have been used as a basis to work upon. Rs. 15,800 were realized by the sale of 100 bales of bark at Madras during the past year. It is proposed to sell 400 bales locally during the current year, which may be safely estimated to fetch Rs. 70,000. The same amount is therefore entered in the budget estimate for the coming year, as it is presumed that a similar quantity of bark will be disposed of locally. The total estimate of receipts is therefore Rs. 4,79,000.

3. *Charges.*—The charges for 1883-84 are put down at Rs. 93,459.

4. *Salaries.*—As Mr. Rowson has now resigned his appointment, the salary of the Assistant Superintendent will not exceed Rs. 200 per mensem, the Rs. 100 extra granted to Mr. Rowson having been a personal allowance. The pay of the Head Overseer and of the other officials will remain the same, and so no alteration in the rates is made and no remarks are needed. In accordance with the orders of the Conservator, the Head Overseer of Dodabetta becomes Assistant Superintendent (sub. pro tem.) and will remain at Dodabetta, having the additional charge of the Wood estate thrown on him. The Head Overseers will be at Naduvatom and Hooker, respectively. The figures in the budget for salaries of the Assistant Superintendent and the Head Overseer at Naduvatom have been made to agree with the orders of the Conservator of Forests.

5. *Nurseries.*—In the budget estimate Rs. 400 are provided against Naduvatom plantations and Rs. 500 in the regular and the budget estimates are entered against Dodabetta plantations to meet the cost of collecting chinchona seed.

6. *Upkeep—(a) Working Charges.*—In the regular estimate an increase of Rs. 4,000 is shown. This amount will be spent in repairing the damage caused by the late storms to roads, bridges, drains, water-channels, &c., in the Naduvatom and Pykara plantations, and also in planting the uprooted plots alluded to in G.O., dated 7th December 1881, No. 1882. An increase of Rs. 1,000 is entered in the budget estimate for the Dodabetta plantation. This amount is required for planting up renewals and for interplanting.

(b) *Manure.*—The allotment in Naduvatom is as usual and calls for no remark. With the chattram erected at Naduvatom larger quantities of manure will be available which will require extra funds for application.

In Dodabetta the amount entered in the budget estimate is Rs. 1,000 less, as there are cattle in the estate and a larger sum is not necessary.

7. *Crop—(a) Collection of Crop.*—A sum of Rs. 25,850 is entered in the budget estimate for 1883-84 to collect crop of 150,000 lb. of dry bark.

An excess of Rs. 1,000 occurs in the regular estimate under this head. Owing to the late severe weather the trees have suffered so much that the bark will not lift freely at Naduvatom, so that instead of a systematic collection of crop in previously-selected plots, we are obliged to divide our coolies into small parties and collect bark in various plots and under different systems of harvesting which are more expensive.

In the budget estimates a total increase of Rs. 1,200 is entered to cover the cost of purchasing some proper presses for packing the bales, the present system being a very bad one.

(b) *Carriage.*—Owing to the very heavy crop collected during the previous year, the actuals amounted to a rather heavy figure under this head. The small increase in the regular estimate is due to the fact of the Pykara bridge having collapsed and the roads having been much injured; the cost of transport from Naduvatom to Ootacamund has thereby increased.

8. *Buildings, New.*—Rupees 2,700 are entered in the regular estimate to be utilized as follows: Rs. 2,000 for the chattram, Rs. 500 for rebuilding the Writer's house, Rs. 200 for rebuilding a portion of the Overseer's house.

Both these buildings suffered a good deal in the late severe weather, and the end walls of the Writer's house collapsed altogether. It will have to be pulled down and rebuilt. The present roof can be used again, and the cost of rebuilding the walls should not cost more than Rs. 500.

A portion of the Overseer's house must be rebuilt, and this should not cost more than Rs. 200. In the budget estimate for Naduvatom Rs. 1,000 have been entered for possible works connected with a water-supply project for the Superintendent's bungalow; Rs. 1,000 have been entered for Dodabetta to cover the cost of erection of ten huts on that estate for coolies employed there, as the present accommodation is found to be too small.

9. The other items in the budget are as usual, and call for no special remark except that for firewood plantation. The decrease in the regular estimate is in consequence of our not having been able to plant up as much as we had intended. The blue-gum nurseries suffered so much from the wind and rain that the plants were nearly all destroyed.

The increase in the budget estimate is provided to meet the cost of firewood to be purchased during the coming year from the Forest Department.

10. Having been only recently placed in charge of the Chinchona Plantations, I am compelled to accept the figures supplied by the subordinates under Propagation, Upkeep and Crop.

ORDER—dated 14th December 1882, No. 1409, Revenue.

Miscellaneous.

Chinchona Plantations for 1883-84. The budget was received long after the prescribed date, viz., 15th September last, although, as the Deputy Conservator in charge admits, he has but little to add to the figures furnished.

* Notification at page 434 of the Fort St. George Gazette, dated 15th August 1882.

2. **REGULAR ESTIMATE, 1882-83—Receipts.**—The receipts of the current year are calculated at Rs. 6,11,000, being in excess of the sanctioned estimate for that year and the actuals of 1881-82 by Rs. 1,11,000 and 39,000, respectively. The increase occurs in the following items:—

	1882-83.	
	Budget Estimate	Regular Estimate.
(a) Value of bark sent home	Rs. 4,83,500	Rs. 5,32,000
(b) Do. supplied to the Madras and Bombay Medical Departments ...	4,000	1,500
(c) Value of bark sold locally	...	70,000
Total ...	4,92,500	6,03,500
Difference ...	...	1,11,000

The Conservator presumes that the large increase under (a) is due to the expected realization of a larger revenue from the sale of the products of bark sent home. There is reason, on the contrary, for believing that the credit under this head will be reduced owing to smaller consignments of bark being shipped to allow of local sales. The estimate will be reduced to Rs. 5,00,000. Up to date only 70,003 lb. have been shipped to England, and nothing is said as to contemplated shipments. The increase under (c) represents the amount realized by local sales of bark already held and sanctioned for the current year with the view of developing a local demand. The amount, however, should be Rs. 1,19,000, the additional sale of 280 bales having been sanctioned by G.O., dated 2nd December 1882, Mis. No. 4053. The regular

G.O., dated 18th February 1882, No. 212.

Value of bark sent home	Rs. 5,00,000
Do. supplied to Bombay Medical Department	1,500
Do. sold locally	1,19,000
Do. plants and seed	7,500
Total ...	6,28,000

estimate of receipts then will be Rs. 6,28,000.

3. **REGULAR ESTIMATE, 1882-83—Charges.**—The Deputy Conservator and the Conservator of Forests estimate the charges of the current year at Rs. 1,06,614. The correct total, however, of their figures is 1,06,114. The budget grant for the year is entered as Rs. 1,26,533. It is, however, only Rs. 1,08,533, and the Conservator's figure (Rs. 1,26,533) appears to have been arrived at by including the sum of Rs. 18,000 which was sanctioned as an extra * grant for 1881-82 and included in the regular estimate of that year as sanctioned by Government. The regular estimate shows a small saving of Rs. 2,419 on the sanctioned grant. A statement of bark sent home up to the date of submission of the budget, and of probable shipments in the remainder of the official

* G.O., dated 7th December 1881, No. 1882.

G.O., dated 21st December 1881, No. 1955.

Rs.
1,08,533
1,06,114
2,419

year, should always be annexed to the regular estimate.

4. Notwithstanding the repeated instructions of Government to the contrary several new charges are entered in the regular estimate which have not been sanctioned and no estimates for which have been submitted to Government. Attention is directed to the remarks of Government in reviewing the Chinchona Budget Estimates for a series of years beginning with 1879-80. The allotments will be allowed to stand as the works connected with upkeep are apparently of an urgent nature. With reference to the provision of Rs. 2,000 for "the chattram," it should be explained what chattram is referred to.

5. **BUDGET ESTIMATE, 1883-84—Receipts.**—The receipts for the ensuing year are

	Actuals.
	RS.
* 1877-78	3,57,215
1878-79	4,00,354
1879-80	4,39,787
1880-81	4,84,261
1881-82	5,72,003

5)22,03,620
4,40,724

Value of bark sent home	Rs. 4,00,000
Do. supplied to Bombay Medical Department	1,500
Sale-proceeds of plants and seed	7,500

Total ... 4,09,000

	Actuals.
	RS.
1877-78	69,770
1878-79	73,680
1879-80	79,720
1880-81	96,100
1881-82	1,13,575

5)4,32,845
86,569

Sanctioned estimate for 1882-83..	1,08,533
Regular estimate do. ...	1,06,114

estimated at Rs. 5,00,000 by the Conservator, being the same as the sanctioned but Rs. 1,11,000 less than the regular estimate for the current year, and Rs. 72,000 less than the actuals of 1881-82. The average revenue of the last five years is Rs. 4,40,724 as shown in the margin.* The Conservator's estimate includes a sum of Rs. 70,000 expected to be realized by local sales of bark, but this amount will be omitted as no sales have been ordered for the coming year. The budget estimate of receipts will therefore amount to Rs. 4,09,000, or in round numbers Rs. 4,10,000.

6. **BUDGET ESTIMATE, 1883-84—Charges.**—The charges for the ensuing year are estimated in round figures at Rs. 93,500, being Rs. 12,614 less than the regular estimate for the current year. The Conservator's estimate includes a provision of Rs. 1,200 for the purchase of a press for packing bales, and of Rs. 1,000 for water-supply to the Superintendent's bungalow. Of these provisions the second will be struck out and the first can only be allowed to stand subject to the submission of an estimate and subsequent sanction.

7. The remarks made in paragraph 4 apply also to the provisions of Rs. 1,000 for water-supply at Naduvatam and Rs. 1,000 for huts at Dodabetta. The former provision has been struck out and an estimate for the latter must be forwarded for sanction, though to obviate delay expenditure may be incurred before the estimate is sanctioned.

8. With reference to the Conservator's remark in paragraph 8 of his covering letter, it is observed that a final allotment of Rs. 8,374 was made in the estimate for 1882-83 for completing the Naduvatam buildings.

9. The Government are constrained to remark that the estimates, as submitted, are unsatisfactory and supply but little data or information in themselves for review. The amount of the estimate for 1883-84 depends chiefly on the varieties and the quality of the bark to be harvested, but nothing is said on this subject. The remarks of the Deputy Conservator in paragraphs 5, 6 (b) and 7 (a) and of the Conservator in paragraph 8 of their respective letters are not understood, and the figures given therein apparently do not correspond with those in the statements.

10. Nothing is said concerning, and no provision is made for, Items II and III in paragraph 9 of G.O., dated 21st December 1881, No. 1955, though the question referred to in paragraph 5 of G.O., No. 1280, dated 29th August 1881, has been decided.

11. The engagement of Professor Lawson having been finally settled by G.O., dated 14th October 1882, No. 1116, the sum of Rs. 8,000 will be added to the total estimate of charges. The charges will then amount to Rs. 93,500 (less Rs. 1,000 disallowed) + 8,000 or Rs. 1,00,500, the estimated receipts being Rs. 4,10,000.

12. The despatch from the Secretary of State, No. 31, dated 14th September 1882, arrived too late to allow of the instructions therein contained being carried out in the regular estimate for the current and the budget estimate for the coming year.

(True Extract.)

(Signed) P. P. HUTCHINS,
Acting Secretary to Government.

To the Conservator of Forests.
„ Accountant-General with Budget Estimate.
„ Financial Department.
„ Public Works Department.
„ Board of Revenue.

Exd. J. Henricus.

100 Copies.

Original
Govt. of 1882 Madras.
REVENUE.

G.O., 14th December 1882, No. 1409.

DECEMBER.

Budget Estimate of Chinchona
Plantations.
for 1883-84.—Reviewing —.

No. 1256
C

Office of Conservator of Forests
Camp. 19th October 1882

From

Major J. Campbell Walker,

Conservator of Forests

To

The Secretary to Government,
Revenue Department,

Sir,

I have the honor to
submit the Budget Estimate of the Nilgiri
Chinchona Plantations for the year 1883-84,
with a brief explanatory note.

2. The total revenue of the past

Actuals	Revenue	official year
1879-80.	383815	
1880-81.	434261	
1881-82.	572003	(1881-82) Compared

with the results of the two preceding years
shows a marked improvement which
is

is evidently due to larger consignments of bark to England and the disposal thereof at better rates.

3. The expenditure has

Establishments	1879-80.	1880-81.	1881-82	
	13928	13931	17264	likewise
Working Expenses.	58796.	82174	96305	
	62724	96105	113569	exceeded

the actuals of the previous years, increased outlay having been made in "upkeep" and "Collection of Crop".

Revenue. 4. The total regular and budget estimates under revenue compared

Actuals of 1881-82.	Sanctioned Estimate for 1882-83.	Regular Estimate for 1881-82.	Budget Estimate for 1883-84.	with the actuals of 1881-82 and the sanctioned estimate for the current year are shown in the margin.
572008.	500000	611000.	479000.	

5. The increase in the regular estimate has not been explained, but from the details of figures furnished by the officer

by crop is
1,50,000
against
1,45,000
1,00,000
2,45,000
1,50,000
1,00,000
2,45,000
1,50,000
1,00,000
2,45,000

(600)

1,11,000 - total sales have proved successful.

6. The budget estimate for 1883-84 shows a diminution of Rs 132,000 in sales in England but has not been explained. As however the actuals, the sanctioned and regular estimates are high, the total budget estimate may be raised to Rs 5,00,000.

It depends on quantity sent to England, only sufficient one guess figure other

7. The total regular estimate under "Working Expenses" compared

Upkeep + 3955.	Collection of Crop - 17000	Buildings - 7974	Other items + 1400	with the sanctioned grant shows a decrease of Rs 19,619 as per margin.

8. The increase under "upkeep" is provided for repairing the plantation roads &c damaged during the severe storms of the late South West Mon-
soon as well as for replanting certain uprooted plants. The decrease under "Collection of Crop" and "buildings" is not explained, but under the latter it is apparently due to provision for Reddivattam buildings having been withdrawn agreeably to G.O. dated 13th February 1882, No. 397. W.

no estimate!
acc
It is noted that the whole amount required for Reddivattam buildings has been provided for in the Budget. It is also noted that the whole amount required for Reddivattam buildings has been provided for in the Budget.

9. The total budget estimate compared with the regular estimate shows a net decrease of Rs 12255 appearing principally under "Buildings" against

106,611
93,459
13,155

380
against which a provision of Rs 4000 only is made for the ^{year} 1883-84 to meet the construction of Cooly lines and for the Reddivattam Water Supply project and some petty repairs.

10. Under Establishments &c the regular and budget estimates are nearly identical, but compared with the sanctioned grant they show a small saving which is due to Mr. Ramesh's resignation and the consequent revision made by the Conservator in the rates of pay of upper subordinates, i.e. the cessation of personal allowances.

11. The estimate of the officer in Working Expenses. 78300 Charge under Establishments Rs. 15200 expenditure may be admitted in round figures as specified in the margin. S.

and I have the honor to be,

Sir,

Your most obedient servant,

Amphibious Walker Major

Conservator of Forests

G.O. 21. 12. 84 N.E. 1985

C. O. Form No. 71.

Revenue 1882-83 Despatch

FOREST DEPARTMENT.

From

THE CONSERVATOR OF FORESTS,

To

THE

Secretary to Government,
Revenue Department

Dated

Despatched

Received

19th October 1882.

No. 125^c

Enclosures one

Subject.

Submitting the Budget
Estimate of the Nilgiri
Cinchona Plantations for
the year 1883-84, with a brief
Explanatory notes.

561

10

India Office,
London, 30th March 1882.

Revenue,
No. 16.

To His Excellency The Right Honourable The Governor
in Council, Fort St. George.

SIR,

Referring to my Despatch, No. 14, of the
18th May last, I now enclose, for your Excellency's
information, a copy of a Memorandum, showing
the results of the manufacture of Cinchona alka-
loids from the 250 bales of crown and red barks,
which formed part of the consignment received
from your Government per steamship "El
Dorado."

I have the honour to be,

Sir,

Your most obedient humble Servant,

(Signed) HARTINGTON.

C. 12. 12. 82 14-12-82

(11)

ENCLOSURES.

No. 1.

REPORT on the Manufacture of Sulphate of Quinine and other Cinchona Alkaloids on Government account.

Last year an experiment was made of manufacturing sulphate of quinine and other alkaloids, on Government account, from the bark sent home from the Nilgiri Government plantations. The result of this was so far satisfactory that it was determined to repeat the experiment on a larger scale. The manufacture of the several alkaloids from the crown and renewed barks yielded, financially, 14 per cent. more in the value of the products than the bark operated upon would have realized if sold in the open market in the usual manner. With the red barks it was different, and the result in the case of these was a slight loss. In the former experiment, mixed alkaloids were extracted from the red barks, the value of which was found to be almost exactly 10 per cent. less than the bark itself would have fetched if it had been sold.

For the purpose of further experimental manufacture, 250 bales,* forming part of the consignment received per steamship "El Dorado" last February, were made over to Mr. Whiffen, samples having been first taken for analysis on behalf of the Secretary of State by Dr. B. Paul, whose report gave the following results:—

Crown Barks.

				—	Quinine, Sulphate.	Cinchonidine, Sulphate.	Cinchonine (Alkaloid).
				Bales.	Per cent.	Per cent.	Per cent.
Natural,	N	-	-	22	3.30	1.34	0.27
"	C	-	-	11	3.87	1.20	0.22
Renewed,	N	-	-	66	5.57	0.72	0.23
"	NC	-	-	34	5.73	0.66	0.21
Mossed,	N	-	-	35	4.38	1.46	0.30
"	MC	-	-	10	5.06	1.52	trace
Branch,	N	-	-	22	2.00	0.75	trace
"	PC	-	-				
<i>Red Barks.</i>							
Natural,	P	-	-	20	1.23	2.97	1.24
Mossed,	P	-	-	30	1.74	3.24	2.20

* Natural Crown,	N	-	33
Renewed "	NC	-	100
Mossed "	MC	-	45
Branch "	PC	-	22
			200

Red Natural, P	-	20
Red Mossed, P	-	30
		50

The estimated yield, by analysis, is as follows:—

	Quantity of Bark, in Lbs.	Quinine, Sulphate.		Cinchonidine, Sulphate.		Cinchonine, Alkaloid.	
		At per cent.	Total.	At per cent.	Total.	At per cent.	Total.
Natural crown, -	2,161	3.30	Lbs. 71.41	1.34	Lbs. 28.99	0.27	Lbs. 5.84
" " -	1,101	3.87	42.60	1.20	13.21	0.22	2.42
Renewed " -	6,596	5.57	367.39	0.72	47.49	0.23	15.17
" " -	3,463	5.73	198.43	0.66	22.85	0.21	7.27
Mossed " -	3,612	4.38	158.20	1.46	52.73	0.30	10.83
" " -	997	5.06	50.44	1.52	15.15	trace	—
Branch " -	2,218	2.00	44.36	0.75	16.63	trace	—
			932.83		197.05		41.53
Natural red -	2,035	1.23	25.03	2.97	60.44	1.24	25.23
Mossed " -	3,069	1.74	53.40	3.24	99.43	2.20	67.51
			78.43		159.87		92.74
			1,011.26		356.92		134.27

The result of the working of these barks has been as follows:—

	200 Bales of Crown Bark.	50 Bales of Red Bark.	Total.
Sulphate of quinine -	Lbs. 1,045.5	Lbs. 81.5	Lbs. 1,127
" of cinchonidine -	149.5	143	292.5
" of quinidine -	25	—	25
Cinchonidine alkaloid -	71.25	71	142.25
Amorphous sulph. liquor -	404	240	644

From the foregoing figures, it will be seen that, as on the former occasion, the yield of sulphate of quinine has been in excess of the estimated result, and the sulphate of cinchonidine obtained somewhat under the expected yield, but the cinchonine alkaloid shows a slight excess. The sulphate of quinine shows an excess of 115.74 lbs., or over 11 per cent. So far as the out-turn is concerned, the result is therefore satisfactory.

With regard to the financial results of the experiment, it appears from Messrs. Jenkins and Phillip's report of their sale, that the average prices realized from the sale by public auction of similar parcels of bark, forming part of the same consignment, were,—natural crown, 5s. 8d.; renewed crown, 8s. 11d.; mossed crown, 10 bales at 6s. 10d. and 35 bales at 6s.; branch crown, 3s. 4d.; natural red, 2s. 5d.; mossed

red, 3s. At these prices the value of the above-mentioned barks was as follows:—

Natural crown	-	-	-	Lbs. 3,265 at 5 8 =	£ 925 1 8
Renewed "	-	-	-	10,059 at 8 11 =	4,484 12 9
Mossed " { 10 bales	-	-	-	1,025 at 6 10 =	350 4 2
Branch " { 35 "	-	-	-	3,584 at 6 0 =	1,075 4 0
	-	-	-	2,218 at 3 4 =	369 13 4
				20,151	7,204 15 11
Deduct, allowance for dust, 3 per cent.	-	-	-		
" tret, 4 per cent.	-	-	-		
" discount, 2½ per cent.	-	-	-	10½ per cent. =	756 8 0
" brokerage, &c., 1 per cent.	-	-	-		
Natural red	-	-	-	2,035 at 2 5 =	245 18 0
Mossed red	-	-	-	3,069 at 3 0 =	460 7 0
					706 5 0
Deduct, allowance, 10½ per cent.	-	-	-		74 3 1
					632 1 11
					£7,080 9 10

The value of the products obtained therefrom at the market prices on the day was:—

Crown Barks.

Sulphate of quinine -	-	-	-	Lbs. 1,045.5 at 163 =	£ 8,520 16 6
" cinchonidine -	-	-	-	149.5 at 34 =	254 3 0
" quinidine -	-	-	-	25 at 76 =	95 0 0
Cinchonine alkaloid -	-	-	-	71.25 at 15 =	53 8 9
Amorphous sulph. liquor -	-	-	-	404 at 1 =	20 4 0
					8,913 12 3
Deduct working expenses*	-	-	-		1,007 6 6
					7,936 5 9

Red Barks.

Sulphate of quinine -	-	-	-	Lbs. 81.5 at 163 =	£ 664 4 6
" cinchonidine -	-	-	-	143 at 34 =	243 2 0
Cinchonine alkaloid -	-	-	-	71 at 15 =	53 5 0
Amorphous sulph. liquor -	-	-	-	240 at 1 =	12 0 0
					972 11 6
Deduct working expenses*	-	-	-		272 18 0
					699 13 6
Total -	-	-	-		£8,635 19 3

From these figures it will be seen that the total net value of the products obtained from the bark is 8,635l. 19s. 3d. as compared with 7,080l. 9s. 10d., which would have been realized for the bark if it had been sold with the remainder of the consignment of which it formed a part. The net gain by manufacturing on account of Government instead of selling the bark has thus been 1,555l. 9s. 5d., or nearly 22 per cent. Similarly, it will be seen that the net gain in respect of the crown barks alone is 23 per cent., and in respect of the red barks nearly 10½ per cent. These results are obtained by taking, for purpose of calculation, the price of quinine in May last, the date when the manufacture had been completed and the products were ready for delivery. The result of this experiment is considerably more satisfactory from a financial point of view than the previous one, which showed a net gain of only 9 per cent. more than would have been realized had the bark

* Including a proportion of 21l. paid for fire insurance at factory.

been sold in the usual manner. It may be a question for consideration whether in future it will be advisable to work up the quinoidine into liquor unless it can be shown that there is likely to be any demand for it. A preferable plan probably would be merely to precipitate the alkaloid and not purify it, but set it aside in its rough state till such time as some use may be discovered for it. In the foregoing calculations, I have taken the value of it at merely the cost of manufacture, viz., 1s. per lb.

As on the former occasion, the gain is chiefly obtained from the crown barks. In the previous experiment, the products from the red barks were obtained in the form of mixed alkaloids, and this resulted in a loss of 10 per cent. in value as compared with what would have been obtained by the sale of the bark. I then suggested that "it might perhaps be found more advantageous, from a pecuniary point of view, to extract the several alkaloids separately from the red bark instead of making Chinchona febrifuge." The result has quite fulfilled my anticipations, for it will be seen from the foregoing figures that the value of the alkaloids separately extracted is 699*l.* 13*s.* 6*d.*, taking the price at 163*s.*, as compared with about 632*l.*, the net price which would have been obtained for the bark if sold, showing a gain as already stated of nearly 10½ per cent., instead of a loss of 10 per cent., notwithstanding that the red barks used in this experiment were very considerably poorer in quinine sulphate than those operated upon on the former occasion. It may also be noticed that the value of the sulphate of quinine alone extracted from the red bark amounted to more than the bark would have sold for.

This alteration of the mode of dealing with the red bark is the most important part of the present experiment, and deserves further examination. In the former experiment 4,277 lbs. of red bark, of a net value of 596*l.* 2*s.* 2*d.*, yielded mixed alkaloids of the value of 666*l.* 7*s.*, the cost of manufacturing which was 130*l.*, or a little less than 20 per cent. of the total value. On the present occasion 5,104 lbs. of bark, of the net value of about 632*l.*, yielded separate alkaloids of the gross value of 972*l.* 11*s.* 6*d.*, and the cost of their production was 272*l.* 18*s.*, or a little over 28 per cent. In other words, by a process of manufacture 8 per cent. more expensive, a yield is obtained over 20 per cent. of increased value. This result seems calculated to throw some doubt upon the economic value of manufacturing quinetum, and it is submitted that it might be desirable to make an experiment in this country on a tolerably large scale, with bark from the Darjiling plantation, before the Government of India commits itself to any considerable expenditure in the erection of a factory for the manufacture of quinine or quinetum in India.

Hitherto the results of these experiments have been considered from a purely financial point of view. It must, however, not be forgotten that, as has been expressly declared on more than one occasion, the object of the introduction of the Cinchona plant into India was in order to place within the reach of the masses of the people, at the lowest possible rates, the only effective specific that science has yet discovered for the commonest of Indian diseases.

Adopting this view, the Bengal Government calculate the price of their Cinchona febrifuge at its actual cost to the State, which in 1880-81 was Rs. 9. 3. 10-625 per lb., which is made up as follows:—

	R.	A.	P.
Price of bark used in making 1 lb. of febrifuge -	6	4	0-760
Cost of manufacture, tinning, advertising, &c. -	2	15	9-865
Total -	Rs. 9	3	10-625

which, at 1*s.* 8½*d.* the rupee, is equivalent to 15*s.* 9-7*d.* per lb. Adopting a similar process of calculation for the Madras bark, the following result is obtained:—

	£	s.	d.
* Cost of 50 bales (5,104 lbs.) of red bark -	259	10	8
Freight, wharf charges, &c. -	30	6	8
Return freight, &c., say -	27	4	8
	£317	2	0

The cost price of the several drugs delivered to the Government of India would thus be,—

		Cost of Bark, &c.	Manufacturing Charges, &c.	Total.	Rate per Lb.
	Lbs.	£ s. d.	s. £	£	s. d.
Sulphate of quinine -	81-5	242 13 0	24 per lb. = 97-15	340-8	83 6
" cinchonidine -	143	50 12 0	18 " = 128-14	179-6	25 0
Cinchonine alkaloid -	71	22 6 0	8 " = 28-8	50-14	14 0
Amorphous sulphurous liquor -	240	1 11 0	1 " = 12-0	13-11	1 1½
		£ 317 2 0			

In the same way it may be shown that the sulphate of quinine manufactured from the crown barks will be delivered to Government in India at a cost of only about 40*s.* 7½*d.* per lb., at which price it will successfully compete with the Sikkim febrifuge.

A second collection of papers, showing the recent result of the trial of Cinchona febrifuge and other alkaloids prepared in Bengal from the Sikkim bark, has recently been received from India. Copies of these were sent to Dr. Macnamara and to Mr. J. E. Howard for report. The former notices that, "the Cinchona febrifuge manufactured in India from red bark has evidently maintained and, indeed, increased its reputation," and he urges "that the Government factory be placed in a position to produce the febrifuge in such quantity and at so low a price as will provide for its wide spread employment." Mr. Howard, on the other hand, points out the inferior efficacy and cheapness of sulphate of cinchonine and of sulphate of cinchonidine. He remarks that, in these papers, the febrifuge seems generally admitted "to be a nauseous medicine detrimental in a greater or less degree alike to Europeans and to Natives. . . . Apart from these effects the efficacy of the remedy seems to be universally admitted, being apparently that of cinchonidine and cinchonine, of which it is chiefly composed." Mr. Howard notices that the amount of febrifuge obtained falls very far short of what is to be expected if the bark were thoroughly exhausted, and he quotes a report by Mr. Moens, in which it is stated that, "in the analytical laboratory of the Medical Department, by Dr. De Vrij's method (so called), out of 3,000 kilograms of dry bark 56 kilograms of quinetum were prepared, less than 50 per cent. of the alkaloid that was present in the bark." Should the Indian Government have any serious intention of improving the alkaloid, Mr. Howard says he should be happy, if desired, to supply further suggestions.

With their letter, No. 26 of 1881, the Government of India forwarded particulars of the process adopted by Mr. Gamble for the manufacture of sulphate of quinine. There is nothing new in this process, indeed it is a very old one which may have been employed in this country, but

* The total charge against the plantations, including interest on balance for 1879-80, the last year for which a report has been received, was Rs. 1,06,763. 9. 7, and the amount of the harvest was equivalent to 179,299 lbs. of dry bark, the cost of which was therefore 9 annas 6-3 pies per lb., at which rate 5,104 lbs. would cost Rs. 3,038. 7. 7, or 259*l.* 10*s.* 8*d.*

has certainly been abandoned for improved methods of manufacture for more than a quarter of a century, as it would be impossible by its use to extract the whole of the alkaloids from the bark. But probably this fact has already been ascertained by Mr. Gammie, and that he will be able to introduce some more efficient process of manufacture, before recommending Government to incur expenditure with a view to carrying out the manufacture on an extensive scale.

It may, however, be a question for consideration whether it would not be cheaper to send the bark to England for manufacture, where it would certainly be better made than in India, and the full amount of the alkaloids obtained, instead of permitting half of them to be lost, as is at present the case.

18th October 1881.

F. C. D.

11^o 2201

N^o 4.

90 11. 12. 82 1/10 11. 59

Revenue

30th March 1882

Copy

Letter to Govt St George

N^o 16 enclosures.

2
Rs 6750/82

No: 1519
C

From,

6P (15)
Office of Conservator of Forests
Madras 22 November 1881

Major D Campbell Walker
Conservator of Forests.

To,

The Secretary to Government
Revenue Department.

Sir,

I have the honor to return the
Chinchona budget for 1883-84 with its
enclosures agreeably to the Under Secy.
Gazet's O. O of the 21st Instant.

The enclosures which accompanied
your office note dated 17th Instant, are
also returned.

I have the honor to be

Sir

Your Most Obedient Servant

Chas. Macleod
Deputy Conservator of Forests
for Conservator of Forests

3,920" 6" 80 10 136
17. 12 Jan 82, 10 4 75

Receipts - title receipt of bank
used in ledger only

Revenue works - see Review on
Budget for 73-80.

(7 and plantation 1600)

Revenue for 80-81 shows not utilised

Revenue works - see Review 80-81.

Revenue - Review Budget 82-83
Revenue 8374 Receipts
Expenses 5000 - 1000

Revenue works - see Review 80-81.

Revenue works - see Review 80-81.

Revenue works - see Review 80-81.

Revenue works - see Review 80-81.

Revenue works - see Review 80-81.

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Revenue works - see Review 80-81.

Revenue works - see Review 80-81.

Revenue works - see Review 80-81.

C. O. Form No. 71.

Revenue (1882) Department

No 6750

1882 - 83

FOREST DEPARTMENT.

FROM

THE CONSERVATOR OF FORESTS,

TO

THE Secretary to Government.

Revenue Department.

Receipts Receipts of work

Dated 22nd

Despatched

Received 23rd

November 1882.

No. 15-19

C

Enclosures 5

SUBJECT.

Returns the Chinchina
Budget for 1883-84 with
its enclosures agreeably to
the Under Secretary's D.O.
of the 21st Instant.

22/11/82

YH

paras 5. 6(B) & 7 (a)
not understood & do
not agree with the
statements.

Office of Government
Chinchina District
Chinchina 7 Sept 1882

From
The Secretary to Government
in charge Chinchina District

To
The Conservator of Forests
Mosses

I have the honor to
submit the Budget
Estimate of Receipts
and Expenditure of
the Government Chinchina
Plantations, Nilgiris,
for the Official year
1883-84. As the instructions
promised in para 1 of
G.O. No. 1955 of 21st December
1881 have not as yet been
received, the Budget
has been prepared in
the old form.

2 Receipts As
all Government work
sent to England is
worked

worked up on Goussons's
 account, and as the
 outturn of alkaloids
 from last year's crop,
 and the value thereof,
 have not been communicated,
 the Regular and Budget
 Estimates can only be
 given very roughly. In
 calculation the actuals
 of 1887-88 have been used
 as a basis to work upon.
 Rs 15,600 were realized
 by the sale of 100 Bales
 of bark at Madras
 during the past year. 21.82.
 It is proposed to sell
 400 Bales locally during
 the current year, which 22.62
 may be safely estimated
 to fetch 90,000 Rupees.
 The same amount is
 therefore entered in the
 Budget Estimate for
 the coming year, as it
 is presumed that a
 similar

No statement of bark
 house
 value 1882-83 for
 Regular Est.

The amount of
 crop at any rate
 should be given
 in its estimate here
 as the value will
 be checked? 1.50,000 Rs
 see page 7.
 @ Rs 11-10-00
 Rs 1,50,000

Re:
 101 480 = 1,19,000

would be
 strike out 70,000?

9.82
 similar quantity of bark
 will be disposed of locally.
 The total estimate of
 receipts is therefore Rs 4,79,000.
 3 Charges 19 The
 Charges for 1883-84 are
 put down at Rs 93,459.
 4 Salaries As
 Mr. Rowson has now resigned
 his appointment the salary
 of the Asst. Superintendent
 will not exceed 200 Rupees
 per mensem, the 100 Rupees
 extra granted to Mr. Rowson
 having been a personal
 allowance. The pay of the
 Head Overseer and of the
 other officials will remain
 the same, and no alter-
 ation in the rates is made
 and no remarks are made.
 In accordance with the
 orders of the Conservator the
 Head Overseer of Doddabetta
 becomes Asst. Superintendent
 (Sub Probem), and will remain
 at Doddabetta having the
 additional charge of
 the Wood Estate thrown
 on him. The Head Overseer
 will be at Meddhattam
 and

and Hooker respectively.
No figures in the Budget
for salaries of the Asst.
Superintendent and the
Head Overseer at Neddi-
vattam have been made
to agree with the orders of
the Conservator of Forests.

5. Nurseries.

In the Budget Estimate
Rs 400 is provided against
Neddivattam Plantations,
and Rs 500 in the
Regular and the Budget
Estimates is entered
against Doddabettu
Plantations, to meet
the cost of collecting
Chinchona seed.

Up. Keel.

all have
proposed a rate
something should be
been got. nothing
done yet?

1082

6. Up. Keel.
(a) Working Charges.

In the Regular Estimate
an increase of Rs 4000
is shown. This amount
will be spent in re-
-pairing the damage
caused by the late
storms to roads, bridges,
drains, water channels
&c in the Neddivattam
and Pykara Plan-
-tations, and also in plan-
-ting the uprooted
plots alluded to in
G.O. of December 1881 &
1882. An increase of
Rs 1000 is entered in the
Budget Estimate for
the Doddabettu Plantations.
This amount is required
for planting up renewals
and for inter-planting
the Manure. The
allotment in Neddivattam
is as usual and calls
for

700 lbs

for an increase. With
the Chuturn erected
at Meddantham larger
quantities of manure
will be available which
will require extra funds
for application.

In Godabettu the amount
entered in the Budget
Estimate is 1000 Rupees
less, as there are cattle
on the estate and a
larger sum is not necessary.

7. Crop

(a) Collection of crop

A sum of Rs 25,850 is
entered in the Budget
Estimate for 1883-84 to
collect crop of 150,000
tons of dry bark.

An excess of Rs 1000 occurs
in the Regular Estimate
under this head. Owing
to the late severe weather
the trees have suffered so
much that the bark
will not lift freely

at

B. 42,650
R. 25,650
= 17,000

5. 6 (P). 7 (C)

at Meddantham, as
that instead of a
systematic collection
of crop in previously
selected plots we are
obliged to divide our
coolers into small
patches and collect
bark in various plots
and under different
systems of harvesting
which are more expensive.

In the Budget Estimate
a total increase of
Rs 1,200 is entered to
cover the cost of pur-
chasing some proper
presses for packing the
bark, the present system
being a very bad one.

(b) Carriage. Owing
to the very heavy crop
collected during the
previous year the actual
amounted to a rather
heavy figure under
this head. The small
increase

increase in the Regular Estimate is due to the fact of the Pykura bridge having collapsed and the roads having been much injured. The cost of transport from Cheddinattam to Gataconned has thereby increased.

8 Buildings. New

2,700 Rupees are entered in the Regular Estimate to be utilized as follows -
2,000 Rs. for the Chutkham.
500 Rs. for rebuilding the writer's house - 200 Rs. for rebuilding a portion of the Overseer's house.

Both these buildings suffered a good deal in the late severe weather and the end walls of the writer's house collapsed altogether. It will have to be pulled down and rebuilt. The present roof can

estimates
+ what statement which states!

Can be used again, and the cost of rebuilding the walls should not cost more than 500 Rupees.

A portion of the Overseer's house must be rebuilt and this should not cost more than 200 Rs. In the Budget Estimate for Cheddinattam 1,000 Rupees have been entered for possible works connected with a water supply project for the Superintendent's bungalow. Rs. 1,000 have been entered for Doddabettu to cover the cost of erection of 10 huts as that estimate for coolies employed there, as the present accommodation is found to be too small.

9 The other items in the Budget are as usual, and call for no

9

estimates?

No special remark
except that for Firwood
Plantation. The decrease
in the Regular Estimate
is in consequence of
our not having been
able to plant up as
much as we had intended.
The blue gum nurseries
suffered so much from
the wind and rain that
the plants were nearly
all destroyed.

The increase in the
Budget Estimate is pro-
vided to meet the cost
of firwood to be pur-
chased during the
coming year from the
Forest Department.

10 Having been
only recently placed in
charge of the Chunchoo
plantations I am
compelled to accept

the

(23) 1887-
the figures supplied by
the subordinates under
Propagation, Upkeep
and Crop.

I have the honour

to be

Yours most ob^{ly} servant

H. H. H.

Mr. H. H. H.
in charge

Churchman (1887) deposited

Reg. 1272 of 25-9-12
C.O. 7

From

The Conservator of Forests
in charge of Churchman

To

The Conservator of Forests
at Madras

Date of

Sept 22

Received

September 1882

C.P. 337
C

In two

Rev: 5962/82

Subject

Submitting the
Budget estimate of
Receipts and expenditure
of the Govt. Churchman
Plantations, Madras
for the year 1883-84.

FROM CIRCULATION
WITH
REMARKS.

Stated to be
for Rev. J. H.
Owen

Chengam

24

In a letter to Government,
Q. D. dated 19th October 1882,
No. 1256
C

In 1881 82.83 - (i) 10.000
 (ii) 2000
 (iii) 5000
 by the 1st of Jan
 by the 1st of Jan

For (i) substitute Re: 8274 a-
 Re 1700 and one spent in 1881.82
 (ii) (iii) should be no action
 on (ii) pending report / transaction on
 (iii) pending decision for 25.000
 but it is decided to be

are these works to be done by 1881
 (ii) & (iii)

Query how was the 22,700
 placed to credit of provincial
 budget got? From Chuvichana
 from provincial savings
 see P.D. 21st Dec 81. no 1955
 from G & S.P.W. - 13th July 1982
 no 297 W —

Estimate 79-80 allowed	4000
Estimate 80-81 allowed	5000
for conf huts at Morivalam	2000
for Dadas-Bha drugie house	2000
Asst. Supd. quarters, Morivalam	
Estimate 81-82	
new drugie shed to complete	16000
P.D. 20 th Oct 80. no 1367	(inc. 20,700)
	2000
for reconstr. coach lines	

x in 81-82 Rs 1730 spent
 x did approved these estimates called for -
 Rs 82,700

Madison Building

Balance 32,700

Received B. 81.02 16,000

R. 81.82 16,000

less + 6,700

22,700

B. 82.83 10,000

Balance 22,700 not
 stated at 81.82 but Rs 8374
 + 10,000 paid in 81.82
 in the current year.

10,000
 8374
 17374
 20,174

(27)

200 Bales of Cotton, 182
180, Bales (Cotton) in the year

600 x 100 = 60,000

10,003 sent to England

138,003

145,000
138,000
7,000

* Notification at page 131 of the
Fort St. George Gazette, dated
15 August 1882.

points I fear to much slackness
in the management of the
Nalgeri. W.P.

less

14P 20
Revenue Dept.

Draft G.O. No 1409 of 14.12.82

C. No 5964

Letter from the Conservator
of Forests, dated 19 October 1882
No 1256. (Print with enclosures)

With the foregoing
letter the Conservator of
Forests submits with his re-
marks, the Budget Estimate
of the Chinchona Plantations
for 1883-84. The Budget was
received long after the pre-
scribed date, viz^t, 15 Sep-
tember last, although, as the
Deputy Conservator in charge
admits he has but little to
add to the figures furnished.

2. Regular Estimate 1882-83.

Receipts - The receipts of the
current year are calculated

at

at Rs. 6,11,000 being in excess of the sanctioned estimate for that year and the actuals of 1881-82 by Rs. 1,11,000 and 39,000 respectively. The increase occurs in the following items:-

	1882-83	
	Budget Estimate	Regular Estimate
(a) Value of bark sent home—	4,88,500	5,32,000
(b) — Do. — do. — supplied to the Madras and Bombay Medical Departments—	11,000	1,500
(c) Value of bark sold locally—	"	10,000
	<u>4,92,500</u>	<u>6,03,500</u>
	Difference 1,11,000	

The Conservator presumes that the large increase under (a) is due to the expected realization of a larger revenue from the sale of the products of bark sent home. There is reason on the contrary for believing that the credit under this head will be reduced

owing

owing to smaller consignments of bark being shipped to allow of local sales. The estimate will be reduced to Rs. 5,00,000, Up to date only 40,000 have been shipped to England and nothing is said as to contemplated shipments. The increase under (c) represents the amount realized by local sales of bark already held and sanctioned for the current year with the view of developing a local demand. (G.O. 18th February 1882 No 212) The amount however should be Rs. 1,19,000, the additional sale of 280 bales having been sanctioned by G.O. 2nd Decr. 1882 No. 1053. The Regular Estimate of receipts then will be Rs. 6,28,000.

Value of bark sent home	Rs: 5.00.000
" " supplied to Bombay Medical Depart.	Rs: 1.500
" " sold locally	Rs: 1.19.000
" " planted	Rs: 7.500
Total Rs:	<u>6.28.000</u>

Regular

3. Regular Estimate 1882-83

Charges—The Deputy Comptroller and the Conservator of Forests estimate the charges of the current year at Rs. 1,06,614.

The correct total, however, ^{of their figures} is 1,06,114. The Budget grant for the year is entered as Rs. 1,26,533. It is however only Rs. 1,08,533, and the Conservator's figure (Rs. 1,26,533) appears to have been arrived at by including the sum of Rs. 18,000 which was sanctioned as an extra grant G.O. of Decr. 1881, No. 1832.

for 1881-82 and included in the Regular Estimate of that year as sanctioned by Govt. (G.O. of Decr. 1881, No. 1955).

The Regular Estimate shows a small saving of Rs. 2,419 on the sanctioned grant. A statement

Rs. 1,08,533
Rs. 1,06,114
<u>2,419</u>

of work sent home up to the date of submission of the budget and of probable shipments in the remainder of the year should always be annexed to the Regular estimate. It is to be noted that the repeated instructions of Govt. to the contrary notwithstanding several new charges are entered in the regular estimate which have not been sanctioned and no estimates for which have been submitted to Govt. Attention is directed to the remarks of Govt. in reviewing the Chinchona Budget Estimates for a series of years beginning with 1899-80. The allotments will

will be allowed to stand as the works connected with up-keep are apparently of an urgent nature. With reference to the provision of Rs. 2000 for the "Chattram" it should be explained what chattram is referred to.

5. Budget Estimate 1883-84.

Receipts. The receipts for the ensuing year are estimated at Rs. 5,00,000 by the Conservator being the same as the sanctioned, but Rs. 1,10,000 less than the Regular Estimate for the current year, and Rs. 12,000 less than the actuals of

1881-82. The average revenue of the last five years is Rs. 1,110,724 as shown in the margin. The Conservator's

	Actuals Rs.
1877-78	3,57,215
1878-79	1,60,351
1879-80	1,30,757
1880-81	1,36,261
1881-82	5,42,603
	<u>5) 22,03,620</u>
	4,40,724

Value of bark sent home	Rs. 4,00,000
" " supplied to Bombay	
Medical Dept.	Rs. 1500
Sale proceeds of plants sold	Rs. 7500
Total.	<u>Rs. 7,07,000</u>

	Actuals Rs.
1877-78	67,770
1878-79	13,680
1879-80	19,720
1880-81	96,100
1881-82	113,515
	<u>5) 4,32,815</u>
Sanctioned estimate	86,569
for 1882-83	1,08,533
Regular estimate	1,06,114
— do —	

③ 17P. estimate includes a sum of Rs. 10,000 expected to be realized by local sales of bark, but this amount will be omitted as no sales have been ordered for the coming year. The Budget Estimate of receipts will therefore amount to Rs. 1,09,000, or in round numbers Rs. 1,10,000.

6. Budget Estimate 1883-84.

Charges. The charges for the ensuing year are estimated, in round figures, at Rs. 93,500 being Rs. 12,614 less than the Regular Estimate for the current year. The Conservator's estimate includes a provision of Rs. 1200 for the purchase of a press for packing bales, and of Rs. 1000 for

for water supply to the
Superintendent's bungalows. Of
these provisions the second
will be struck out and the
first, ^{can only be} allowed to stand ^{only}
subject to the submission
of an estimate and subse-
quent sanction.

4. The remarks made
in para 4 apply also to the
provisions of Rs. 1000 for
water supply at Maduvalam
and Rs. 1000 for huts at
Dodabetta. The former pro-
vision has been struck out
and an estimate for the
latter must be forwarded
for sanction, though to
obviate ^{delay} expenditure may be
incurred before the estimates
^{is} sanctioned.

8. With reference to

③ 182
the Conservator's remark
in para 8 of his covering
letter, it is observed that a
final allotment of Rs. 834
was made in the estimate
for 1882-83 for completing
the Maduvalam buildings.

9. The Government
are constrained to remark
that the estimates, as sub-
mitted, are unsatisfactory
and supply but little
data or information in
themselves for review. The
amount of the estimate for
1883-84 depends chiefly on
^{various} the ^{the} quality and ~~quantity~~ of
the bark to be harvested, but
nothing is said on this sub-
ject. The remarks of the
Deputy Conservator in paras
6(B) and 7(a) and of the
Conservator

note

An o. u. to acc^t. Genl. is also put
up here with for approval. as Govt.
ordered that Rs. 22,700 from Chickona
should be placed at the disposal
of Public Works Dept. for prosecution
of repairs at Madhavaram it appears
certain this amount was provided
from "Provincial" — i.e. — Provincial
which is badly off has paid this sum
for "Chickona" which has a large surplus
which this Govt. do not get. Therefore the o. u.
to be assured on the point. L.S.T.

Draft of

Running

of the

The

Query whether it should also go to the

Right Hon: The Governor: it is

assumed herein Professor Lawson's

you will be debited to Churchman

whatever may be his precise duties

in respect of the plantations.

B. 12/12

I understand

that this is so to be

etc

Des: Dec: 1st
to the Accountant
General
J. L. S. 12/12/82

- R.S.C. Dec: 11/12/83
- 1-Conservation of Forests 18:1-83
 - 2-Acc: Gen: with 18:1-83
 - 3-Tri: Report 18:1-83
 - 4-P. W. Report
 - 5-Board of Revenue
 - 6-By Const: of Forests, Oct: 18:1-83