M.R.O. 1—89,000—16-10-29.

MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

G.O. No. 243 Press ~~Mis.~~

185-86
Dated 19-2-1820 ~~19~~ .

Not to be folded or roughly handled

No. 185. Read the following Proceedings of the Government of India, Public Works Department, (Revenue—Forests,) dated Fort William, 19th January 1870, No. 45—46-F. :—

Orders on the Madras Forest Budget-Estimate for 1870-71.

Read—

Letter from the Government of Madras, No. 4,039, dated 25th September 1869.

Memorandum from the Financial Department, No. 2,528, dated 18th November 1869.

RESOLUTION.—The figures for 1868-69 are—

	Budget-Estimate.	Regular Estimate.	Actuals.
	RS.	RS.	RS.
Receipts	4,50,000	4,50,000	3,91,179
Charges	3,09,800	3,10,480	2,70,472
Surplus ...	1,40,200	1,39,520	1,20,707

It is explained that the anticipated revenue would have been realized, but for the defalcations of Overseer Turnbull, who appropriated purchase-money for timber to the extent of about Rupees 30,000, and the non-adjustment within the year of certain sums due for timber delivered by public departments.

2. The charges have been less than the estimate by Rupees 40,000. This is explained by the suspension of timber-operations in Wynaad and the Annamallays, and by savings under "Establishment."

3. The Report for 1868-69 has been received, and, with the exception of trifling differences, the figures agree with those of the Budget. The charges for Conservancy and Working, entered in the column of "Actuals," are not classified, but entered in a lump sum for each division. The Conservator explains that he has been directed by the Accountant-General to exhibit as charges under "Actuals" the sums drawn from treasuries, which admit of no classification, and that the amounts actually charged and audited are entered in the Annual Progress Report. The object or advantage of this is not apparent, while the inconvenience of not having the means of making a comparison of details is evident. The difference between the expenditure shown in these two documents is so trifling that the details might, without apparent difficulty, have been arrived at and shown; any difference having been explained by a note at the foot of the Budget. The total expenditure of the department is shown as follows :—

	Rs.
In the Report	2,69,700
„ „ Budget	2,70,472
Difference ...	772

4. The Accountant-General also notices a small difference under "Charges" between the entries in his books and the Conservator's figures under "Actuals," the totals of the Accountant-General's books being less by Rupees 2,727. Under Receipts he notices a difference of Rupees 157 between his figures and those of the Conservator.

These are discrepancies of small moment, and they need not have interfered with a proper classification of the amounts, though they should not have occurred at all.

5. The estimates for the current year are as follow :—

	Budget-Estimate.	Regular Estimate.
	RS.	RS.
Receipts...	4,70,000	4,50,000
Charges...	3,50,000	3,31,500
Surplus...	1,20,000	1,18,500

The small reduction under "Receipts" and "Charges" calls for no remark, and the figures of the Regular Estimate are admitted as proposed.

The Financial Department reports that the actual receipts and charges during the first-half of the current year have been as follows :—

	RS.
Receipts...	1,97,750
Charges...	1,22,350

6. The estimate proposed for 1870-71 is—

		RS.
Receipts...		4,50,000
Charges...	Conservancy and Working... ...	1,86,000
	Establishments	1,62,000
		3,48,000
Surplus...		1,02,000

7. The receipts are estimated at the same figure as those of the current year, and call for no remark.

8. The charges are Rupees 3,000 less than the amount of the Budget grant for the current year, but they are higher than the Actuals of 1868-69 by Rupees 77,500, *viz.*, Rupees 53,300 under Conservancy and Working, and Rupees 24,200 under Establishments.

9. The actual charges under Conservancy and Working not being classified, a detailed comparison with the new estimate is not possible. To a certain extent, however, this is rendered possible by Major Beddome's Report on contemplated operations.

10. The principal increase of charges under this head is contemplated in the following divisions :—

Cuddapah.—Rupees 14,000 against Rupees 3,892 in 1868-69, collection of Red Sanders wood and plantations.

Madura.—Rupees 10,000 against Rupees 1,000 in 1868-69, for extended felling and planting operations.

Annamallays.—Rupees 40,000 against Rupees 21,363, as felling operations were suspended in 1868-69.

Tinnevelly.—Rupees 7,000 to commence operations.

Nellumboor.—Rupees 14,000 against Rupees 10,351, for more extended planting.

These entries account for about Rupees 49,000 of the proposed increase, and the remainder consists of small additions in other divisions, balanced by a decrease

of Rupees 6,800 owing to the transfer to the Local Funds of the Neilgherry Sholas and Plantations.

11. The items of increase noted are unobjectionable, and some of them give satisfactory evidence of the expansion of the work of the department. As regards timber-operations in the Annamallay forests, the Governor-General in Council trusts that the remarks made on previous occasions will be kept in mind, and that no extensive cuttings will be permitted without a well-considered plan of operations, framed with due regard to the permanent maintenance and improvement of these forests.

12. In the Nellumboor Teak Plantations, if the Madras Government should wish to propose a larger outlay after 1870-71, His Excellency in Council will be ready to consider any well-matured scheme for the extension of these excellent plantations on a much larger scale.

13. The Establishment charges are estimated as follow under the three heads :—

	RS.
Salaries...	1,34,791
Travelling Allowances...	15,728
Contingencies	11,481
Total ...	1,62,000

The details of these items are fully stated in an explanatory memorandum by the Accountant-General, and in the Officiating Conservator's Report on contemplated operations. The estimate for Contingencies will, under the explanation given, be admitted, but under Salaries and Travelling Allowances some reduction appears feasible.

14. The amount actually sanctioned by the Government of India in the Financial Department, after deducting Rupees 3,000 for the Neilgherry Establishment, amounts Rupees 1,39,675* per annum, including consolidated travelling allowances. But this sum includes the pay of a Deputy-Conservator attached to the Central Office (Rupees 774 per mensem, or Rupees 9,288 annually), which appointment it has been proposed to abolish. The other items enumerated by the Accountant-General of Madras are either under consideration and reference, or have not yet been reported for sanction.† And the Financial Department of the Government of India has ordered a reduction in the number and rate of pay of the Peons attached to the Central Office, which will effect a saving of Rupees 264 annually.

	RS.
* Amount sanctioned in October 1868, (less Rupees 3,600) ...	1,38,595
Additional sanction for Annamallay, Wynaad, Madura, Goomsoor, (less savings in Tinnevelly and Golconda)	1,080
Total ...	1,39,675

	Per Annum.
† Proposed increase of pay of Deputy-Conservator from Rupees 774 to Rupees 800 ...* ...	312
Pay and batta of Dresser	333
	645

15. Lastly, under Travelling Allowances is included a sum of Rupees 5,000 for the Conservator, Deputy-Conservator, and Central Office Establishment, for whom no consolidated allowances are provided. If the appointment of Travel-

ling Deputy Conservator is abolished, then the outlay on this account also will be less.

16. Under these circumstances, it appears to the Governor-General in Council that the aggregate amount estimated under Salaries and Travelling Allowances may be reduced by Rupees 6,000, which will make the estimate under establishment Rupees 1,56,000, or a trifle more than the amount provided in the Regular Estimate.

17. The Budget-Estimate for 1870-71 as thus modified will stand as follows:—

			Rs.
Receipts			4,50,000
Charges...	Conservancy and Working ...	1,86,000	
	Establishment	1,56,000	
			3,42,000
			1,08,000

ORDER.—Ordered that, with the papers read, a copy of this Resolution be forwarded to the Financial Department, for information.

Ordered, also, that a copy of this Resolution be forwarded to the Government of Madras, for information and guidance.

(Signed) R. STRACHEY, Colonel, R.E.,
Offg. Secretary to the Govt. of India.

No. 186. ORDER THEREON, 19th February 1870, No. 243.

Forests, No. 5.

COMMUNICATED to the Officiating Conservator of Forests for his information and guidance. Major Beddome's attention will be requested to the remarks in paragraphs 11 and 12 of the Resolution of the Government of India.

(True Extract.)
(Signed) R. A. DALYELL,
Acting Secretary to Government.

To the Officiating Conservator of Forests.
,, the Board of Revenue.
,, the Accountant-General.

Fxd. F. R. Bantleman.

IV.

REPORT

OF THE

CONSERVATOR OF FORESTS,

FOR THE

OFFICIAL YEAR

1868-69.

MADRAS:
PRINTED BY H. MORGAN, AT THE FORT ST. GEORGE GAZETTE PRESS.
1869.

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1869.

OFFICE OF CONSERVATOR OF FORESTS:
CAMP OOTACAMUND, 1*st April* 1869.

From

MAJOR R. H. BEDDOME,
Officiating Conservator of Forests;

To

R. A. DALYELL, ESQ.,
Acting Secretary to Government, Revenue Department,
Fort Saint George.

SIR,—I have the honor to forward the Annual Report of my Department for 1868-69.

2. In May I visited the Bolamputty and Sholay Kurray Forests, and in June the Salem Range, in July the Denkenacottah Forests, and in August the Anamallay and Cuddapah Forests, and proceeded on a tour through the Bellary District with a view to selecting sites for locomotive fuel plantations. In September I went a tour with Captain Seaton, the Conservator of Forests in Burmah, and we visited the Nellambur plantations, a part of Wynaad, and the plantations on the Neilgherries. In October I again visited the Bolumputty Forests and the Anamallays and the new ghaut operations, and in November and December the forests of the Madura District. In January and February I was engaged in a tour in South Tinnevelly, and in March I visited the Wynaad Forests and the depôts in Mysore, the different plantations on the Neilghirries were also constantly visited.

3. GOMSUR.—*Superintendence.*—These forests have remained under Overseer MacCally during the year.

4. *Increase to Establishment.*—The Overseer was promoted to 1st Class on the 1st April 1869, and then was also a small addition made to the pay of the peons, etc., (Vide G. O. No. 2,533, dated 2nd October 1868).

5. *Operations.*—Conservancy was well attended to. The forests remain under the Voucher and License system, but some tracts are reserved and worked departmentally, and the Department Public Works have been allowed to fell in some cases.

6. *Village Fires.*—The Overseer reports that Village fires are very prevalent, and that they generally occur from gross carelessness, and that the custom of giving timber free of any seignorage for the rebuilding of all houses destroyed in this way greatly tend to enhance the number of the annual fires. 502 houses were burnt during the year, and 2,247 bandy loads of timber granted free in consequence.

7. *Theft, Mischief, etc.*—Seventy-three persons were prosecuted during the year for Forest Offences and in all cases sufficient punishment was awarded.

8. *Health of Establishment.*—This was bad, fever having been very prevalent.

A

9. *Financial Results.*

Expenditure.

	RS.	A.	P.	RS.	A.	P.
Establishment	1,992	0	0			
Office contingencies	76	10	0			
Working charges	1,227	4	3			
				3,295	14	3
Receipts.						
Sales from depôt	106	10	0			
Seignorage	4,481	5	9			
Confiscations	41	10	0			
Timber supplied to D. P. W.	1,609	11	0			
				6,239	4	9
Balance in favor of forests	.....			2,943	6	6
Timber on hand, 31st March 1868	1,135	10	0			
Add felled during 1868-69	1,644	15	0			
Total...	2,780	9	0			
Deduct sold during 1868-69	1,716	5	0			
Value on hand, 31st March 1869	1,064	4	0			
Deduct deficiency in stock	.....			71	6	0
Financial results	.....			2,872	0	6

10. GOLCONDAH.—These forests have remained entirely under the Collector the expenditure amount to 904-12-4 and the receipts to 377-11-8.

11. CUDDAPAH.—*Conservancy.*—Mr. Yarde has remained in charge of these forests, he has constantly travelled about his range. The License and Voucher system remains in force with the exception of the working of Red Sanders roots and stumps which is now departmental, much attention, however, has been paid to regulating what tracts are to be worked and what require rest, and the usual operations of clearing away creepers, etc., have been regularly attended to.

12. *Operations.*—No timber has been felled departmentally for the depôt, as the supply was equal to requirements. The receipts under the Voucher and License system have averaged about 3,000 Rupees per mensem.

13. *Depôts.*—The public have purchased to the value of Rupees 687-4-8 from our building timber depôt.

With the sanction of the Collector, the working of the roots and stumps of the dye wood (Red Sanders) has been undertaken by the department, and a depôt has been formed, the profit will be considerable.

14. *Timber granted free.*—Free passes have been granted to the ryots for 242 bandy loads of unreserved timbers, and a large quantity of bamboos.

15. *Theft and mischief.*—Sixteen cases were prosecuted during the year, one only, in which three persons were concerned, was dismissed; punishments of small fines and short imprisonments were awarded in the other fifteen cases in which fifty-two persons were concerned. The punishment is generally too lenient.

16. *Timber for the D. P. W.*—The Public Works Department have taken no timber from our depôt during the year, but they have removed timber from the forests to the value of Rupees 250-4-0.

17. *Confiscation.*—Two hundred and thirty-three bandy loads of timber trees were confiscated during the year, it was chiefly timber cut on time-expired licenses,

or timber of higher value than that for which the licenses had been granted; the sale realized Rupees 1,443-15-0.

18. *Some increase to Establishment necessary.*—To effectually check smuggling, a further increase to the establishment seems called for, and is authorized by the large revenue; the subject is under the consideration of the Conservator.

19. *Plantations.*—The year has been one of great drought and most unfavorable for planting operations. The trees planted out last year are healthy and growing well, but most of those transplanted from the nursery beds this year have failed. A further attempt at sowing Babul (Acacia Arabica) and Nim (Melia Azedarach) broad-cast was made, but has proved a failure, the seed generally germinated, but afterwards succumbed to the heat and drought; it will not be attempted again, it might answer well in the humid climate of our Western Coast, but is not suited to our dry districts. A large plantation near Cuddapah on the banks of the Papugnee river was commenced by the Collector from Local Funds, it has now been handed over to our department and was taken over by Mr. Brougham together with a large tract of land near Gooty and another at Chittravutty on the 1st of May, just after the close of the official year.

20. *Cattle Trespass.*—Cattle trespass in our plantations is very common and difficult to prevent, the punishment given when trespass and damage is clearly proved is never sufficient to keep this offence in check, and the pound charges as in other districts are too small.

21. *Health of Establishment.*—Mr. Yarde and nearly every one on his establishment have suffered from jungle fever, no death has, however, occurred.

22. *Financial Results.*

Expenditure.

	RS.	A.	P.	RS.	A.	P.
Establishment	6,388	0	0			
Working charges	3,864	0	0			
Contingencies	107	12	0			
				10,359	12	0
Receipts.						
Seignorage on timber	20,539	1	0			
Do. bamboos	529	4	0			
Do. firewood	2,483	8	0			
Do. charcoal	382	7	0			
Do. locomotive fuel	11,806	8	2			
Confiscated timber	1,443	15	0			
Sale of depôt timber	687	4	8			
Timber for D. P. W.	250	4	0			
Miscellaneous	322	0	0			
				38,444	3	10
Balance in favor of Forests	.....			28,084	7	10
Value of timber in depôt on 31st March 1868, viz., cubic feet 5,811-11¾	6,868	9	7			
Add felled during the year	10,972	0	8			
Total...	17,840	10	3			
Deduct sold	687	4	8			
Value of timber* and Red Sanders in depôt on 31st March 1869	17,153	5	7			
Add surplus stock of timber				10,284	12	0
Financial results for the year:						
Profit...				38,369	3	10

* Timber cubic feet 5,261¼, Red Sanders 10,86,293, lbs. at Rupees 8 per 1,000 lbs.

23. KURNOOL.—*Superintendence.*—Mr. Sheffield has remained in charge of these forests throughout the year, they are still worked almost entirely on the Voucher and License system.

24. *Operations.*—The usual clearing of creepers and undergrowth, etc., has been carried out, but the Assistant Conservator reports that conservancy has not received as much attention as he could wish, as the establishment has been much disorganized by fever.

25. FOREST MAP.—*Demarcation, etc.*—The Assistant Conservator has drawn up a very good Forest Map, but it has not yet been lithographed. Blocks of forests for the manufacture of charcoal for the iron forges have been marked out, and felling for this purpose is restricted to these tracts. The forests have also been divided into three divisions, *viz.*; 1st, strictly reserved tracts for departmental felling; 2nd, forests open to Voucher and License; 3rd, forests open for free felling but also open to Voucher and License. The proposed reserved tract is about 20 square miles not one-fifth of the whole forest, and if the Collector sanctions it, it is proposed to obtain the sanction of Government for demarcating this portion and making it a strict reserve; it comprises the chief part of the forest between the Nundy Canama and the Yellagodo Canama Ghauts. The rest of these hills will then be open to Voucher and License felling and the forests about the foot of the hills, a tract of about three miles in depth for free felling for the ryots, but felling on Voucher and License will also be allowed in the latter.

26. *Roads.*—The road sanctioned in the Government Order, No. 2,580, of the 1st November 1867, of which four miles were opened out last year has been completed during the year to the foot of the hills, a further distance of three miles, at a cost of Rupees 2,500, which sum was met from our Budget.

27. *Depôt.*—It has not been necessary to fell more timber for the depôt during the year; 4,000 cubic feet of timber which remained in the forest last year has been brought out to the Nundyal Depôt, 503 cubic feet have been supplied to the public, and 1,561 cubic feet to the Department Public Works.

28. *Telegraph poles.*—2,510 telegraph poles have been supplied during the year to the Telegraph Department, they were all cut from Chiriman (Anogeissus latifolius) a tree very abundant in these forests, to guard against wasteful felling they were all cut by the department.

29. *Elephants.*—The two elephants employed in these forests are a great expense; at some seasons there is a scarcity of water for them, and the demand for timber of large scantling is scarcely sufficient to authorize their being kept on in this district, they will, therefore, be removed next June or July to the Anamallays where their services are much required.

30. *Timber removed on License.*—The following has been removed from the forests during the year on Voucher and License by payment of seignorage.

Reserved timbers,	6,277	bandy loads.	
Unreserved do.	10,425	do.	
Bamboos	6,397	do.	and 7,969 Head loads.
Firewood	5,422	do.	
Charcoal	18,203	do.	

31. *Timber given free to ryots.*—960 bandy loads of timber and 1,042 bandy loads of firewood have been removed on free passes.

32. *Confiscations.*—These realized the sum of Rupees 1,125 of which 750 has been credited to Government, and 375 to informers. Mr. Sheffield reports that much assistance in detecting smuggling is rendered by the village authorities.

33. *Theft and Mischief.*—Twenty-eight cases—twenty-seven of which were for theft and one for mischief were tried during the year. In twenty-two cases in which forty-seven people were concerned, punishments of fine or imprisonment were awarded, six cases in which eleven people were concerned were dismissed.

34. *Cinchonas.*—The sixteen Cinchonas remaining at the end of last year all died off in the hot season, the climate is far too dry and no care could save the plants through the hot winds experienced in April and May, the experiment will not be tried again.

35. *Plantations.*—The Teak Plantation is a failure I am afraid; tolerably good Teak trees are occasionally found on these hills in ravines or under favorable circumstances, but in an open plantation every individual tree would require so much care and attention that the expense would be too great.

At Nundial Mr. Sheffield has a very good plantation for avenue purposes and it is well stocked with saplings of the following trees :—

Acacia speciosa. Darasan.
Melia Azadirachta. Yapa.
The Tamarind
The Wild Mango.
Thespesia populnea.
Casuarina muricata.
Millingtoma hortensis. The cork tree.
Acacia Arabica. Tuma.

Seeds of many different sorts of jungle trees have also been planted lately, and seeds of many sorts likely to answer are being procured from the Botanical Gardens in Madras and Calcutta.

36. *Health of Establishment.*—Fever of a very bad type is very prevalent in this district, Mr. Sheffield and all his establishment have suffered during the year. Four men have died.

37. *Financial Results.*

	RS.	A.	P.	RS.	A.	P.
Expenditure.						
Establishment	7,174	4	6			
Working charges*	7,335	3	2			
				14,509	7	8
Receipts.						
Seignorage	37,296	6	0			
Sale of depôt timber	541	6	8			
Timber for D. P. W.	2,017	1	4			
Confiscations	750	0	0			
Miscellaneous	441	0	0			
				41,045	14	0
Balance in favor of Government				26,536	6	4

* Of this 7,500 has been expended on a road from Nundial to the foot of the hills.

		RS.	A.	P.	RS.	A.	P.
Balance of timber in depôt on 31st March 1868	.....				26,536	6	4
Add difference in value*	.....	4,307	9	4			
	.....	938	14	8			
		5,246	8	0			
Deduct sold during 1868-69	2,493 8 0						
Do. destroyed by white-ants, etc., ...	199 10 8						
		2,693	2	8			
Balance of timber in depôt on 31st March 1869, viz., 2,042 $\frac{5}{12}$ cubic feet at Rupees 1-4-0 per foot	.....	2,553	5	4			
Decrease in stock	.....	.....			1,754	4	0
Financial results for the year.....	.....	.....			24,782	2	4

38. North Arcot.—*Superintendence.*—These forests have been worked by Overseer Brougham under Mr. Yarde. At the end of the official year, he was promoted to First Class and transferred to the new Cuddapah and Bellary plantations. With the exception of a small depôt, the forests are entirely worked by Voucher and License.

39. *Goodiathum forests transferred by Government but not handed over by the Collector.*—A tract of forests near Goodiathum has always been under the Jungle Conservancy of the Collector of North Arcot, it prevented our establishments of North Arcot, and Salem joining, and considerably affected conservancy as reported by the Forest Officers of Salem and North Arcot. Mr. Wright, the Locomotive Superintendent, also brought to notice that an immense amount of Railway fuel was brought from this tract, these facts were brought to the notice of Government and the Board, and the tract was transferred to our Department—*Vide.* G. O., No. 2,909, of the 20th of November 1868, and an establishment was subsequently sanctioned. The Collector, however, has not handed them over up to date; there is no establishment to supervise operations in this tract, and it has lately come to light that large frauds have been committed and that millions of pounds of fuel have been brought into the Railway depôt at Amboor without any payment for seignorage to Government.

40. *Other tracts under the Collector.*—There are other valuable tracts of forest in this district under the Collector's management, it renders conservancy much more difficult, and if they are to remain so, a proper establishment should be organized, our seignorage rates and rules should be put in force and our Officers should be kept informed of all that goes on. Special reports on this subject and that of jungle conservancy under Collectors in general are now before Government and the Board.

41. *A depot to be formed for Red Sanders roots and stumps.*—The Red Sanders roots and stumps are about to be collected departmentally and a depôt is being formed at Ballapilly.

42. *Timber Depot.*—It was not found necessary to add any timber to the depôt during the year.

* Last year valued at one Rupee in forests, this year at Rupees 1-4-0 in depôt.

43. *Confiscations.*—The sale of confiscated timber during the year realized Rupees 385-10-1.

44. *Theft and Mischief.*—Eighteen cases, almost all for theft of timber, were prosecuted before the Magistrate during the year. In eleven cases in which forty people were concerned punishment was awarded, seven cases in which ten people were concerned were dismissed. Much injury is done to our nurseries and plantations by cattle trespass, and cattle continue to do much damage in the forests.

45. *Free Passes for timber.*—101 bandy loads of timber and 129 bandy loads of bamboos were given on free passes during the year.

46. *Plantations.*—The season has been unusually dry and unfavorable for planting operations.

In the Teeroovalum Casuarina Plantation, 7,110 young plants were put out, from which number about 300 casualties occurred, a few vacancies also occurred in last year's planting; the nursery beds contain about two lacs of plants and some 15,000 are of sufficient size for putting out with the first rain, a small extension to this plantation was made during the year and it was fenced in. Slight damage is committed by a species of Borer. A small plantation has been formed at Ammerdy near Vellore, in this several species of jungle trees and avenue trees are growing well, and experimental sowing of various trees fit for avenue or ornamental purposes is carried on in the nurseries.

Two more blocks of land fit for Casuarina planting have been selected and surveyed and the plans forwarded to the Collector, and the department is in communication with that Officer with respect to a transfer of the same.

47. *Health of Establishment.*—This has been on the whole good, but a Duffadar at Kirkumbady died of jungle fever.

48. *Financial Results.*

Expenditure.		RS.	A.	P.	RS.	A.	P.
Establishment		2,733	0	0			
Working charges		2,454	2	9			
Contingencies		0	15	0			
					5,188	1	9
Receipts.							
Seignorage on timber		4,047	13	6			
Do.	firewood	2,414	8	6			
Do.	bamboos	3,671	15	0			
Do.	charcoal	492	11	0			
Do.	miscellaneous	105	2	0			
Do.	confiscations	385	10	1			
Do.	sale of depôt timber...	8	0	0			
					11,125	12	1
Balance in favor of Government.....					5,937	10	4
Balance of timber on hand 31st March 1868		627	3	4			
Deduct sold		8	0	0			
Balance of timber on hand 31st March 1869		619	3	4			
Deduct deficiency in stock.....		.....			8	9	0
Financial Results for 1869-70.....		.....			5,929	10	4

49. South Arcot.—*Superintendence.*—These forests have been worked by Overseer Ramiah under Lieutenant Walker. Much attention has been paid to systematic felling and the careful checking of licenses, etc.

50. *Departmental Working.*—The Departmental working which was introduced last year into the Trinomallay Talook is not popular, and the demands on

our depôt are small, this, however, was to be expected at first. A timber shed has been erected at Chengam, and a wood yard has been fenced in.

51. *Depot.*—1365 cubic feet of timber were felled and stored in depôt during the year, 1,332 cubic feet were sold to merchants, realizing Rupees 759-9-0, 124 cubic feet remain in stock.

52. *Timber removed on License.*—139 Bandy loads of timber, 1,096 of firewood, 1,275 of bamboos, 196 of bark and 73 of charcoal, 961 head loads of timber, 5,127 of bamboos, and 1,571 of charcoal have been leased out for one year as an experiment.

53. *Free passes.*—632 bandy loads of timber and 190 of bamboos and 65 of firewood were granted on free passes to ryots.

54. *Confiscation.*—The confiscations sold for the sum of Rupees 173-6-4, of this Rupees 142-2-2 were credited to the depôt, and Rupees 31-4-2 to informers.

55. *Theft and Mischief and breaches of Forest Rules.*—Seventeen cases in which Seventy-two persons were concerned were brought before the Magistrates, sixty-three persons were punished and nine acquitted, the punishments, as a rule, were too light.

Forty-three cases were settled departmentally in forty-one timber, etc., was confiscated and in two it was released.

56. *Firewood Jungles and proposed Plantations.*—The firewood jungles of this district have been carefully explored by the Officer in charge, and his report forms appendix.

Plantations for Railway fuel will be necessary; there are admirable sites both for planting Casuarinas and for general planting; the subject is under consideration and will be specially reported on, if the plantations are placed under the Special Department; the firewood jungles should also be transferred to it.

57. *Health of Establishment.*—This has been good upon the whole.

58. *Financial Results.*

	RS.	A.	P.	RS.	A.	P.
Expenditure.						
Establishment	2,469	2	0			
Working charges...	720	9	5	3,189	11	5
Receipts.						
Sale of timber from depôt	757	9	0			
Seignorage on timber, bamboos, &c. .	2,059	2	0			
Confiscations...	142	2	2			
Miscellaneous	262	8	0	3,221	5	2
				31	9	9
Balance in favor of Government ...						
Balance of timber in depôt on 31st March 1868	44	0	0			
Add felled during the year	1,023	13	8	1,067	13	8
Deduct timber sold during the year	757	7	9			
Deduct loss and difference of rates	216	10	9	974	2	6
Value on hand on 31st March 1869 ...				93	11	2
Add additional stock of timber ...				.....		
				49	11	2
				81	4	11
Financial results for 1868-69, profits.				.....		

59. *Madura.*—Mr. Turnbull was removed to the Wynaad Range in May last, and Lieutenant Fullerton assumed charge of this range and Tinnevelly in June, he had a great deal of travelling over his districts and contracted jungle fever which was followed by incessant diarrhœa, from which he died in March; he is a great loss to the Department. Lieutenant Walker was then nominated to the united ranges but he had not joined at the close of the official year. Overseer Appavoo has remained in charge since Lieutenant Fullerton's death and he has submitted the Annual report.

60. *An Overseer appointed.*—Overseer Appavoo was appointed as a 3rd Class Overseer for this range under the Deputy Conservator, and joined on the 23rd of September 1868, he has been a long time in the department as Head Writer to the Conservator, and in the Central Office and has considerable experience.

61. *Depôts.*—During the year 1,255 cubic feet of Vengay were felled and brought to the Cumbum depôt. Rupees 7,050 were realized by the sale of timber. A depôt is about to be formed at Periakolum.

62. *Licenses.*—During the year Rupees 3,327-15-0 were realized by the sale of Licenses.

63. *Plantations.*—A small Teak plantation has been commenced near Cumbum.

64. *Theft and Mischief.*—Only 5 cases in which eleven people were concerned, were prosecuted during the year, one was dismissed and in the other four punishments of fine and imprisonment were awarded.

65. *Financial Results.*

	RS.	A.	P.	RS.	A.	P.
Expenditure.						
Establishment.....	4,845	9	0			
Working charges....	1,212	4	7			
Contingencies.....	75	11	5			
				6,133	9	0
Receipts.						
Sale of timber from depôt.....	7,050	0	0			
Seignorage...	3,327	15	0			
Confiscations...	144	12	0			
				10,522	11	0
Balance in favor of Government	.....			4,389	2	0
Value of timber on hand on 31st March 1868.....	7,367	1	6			
Add felled during 1868-69.	3,203	11	11			
	10,570	13	5			
Deduct sold during the year.....	8,682	11	5			
Balance on hand on 31st March 1869	1,888	2	0			
Deduct deficiency in stock.....	.....			5,478	15	6
Financial results. Deficiency.....	.....			1,089	13	6

66. TINNEVELLY.—*Superintendence.*—Lieutenant Fullerton joined the range in June, and the forests of South Tinnevelly from Courtallum down to Tricknagoody were handed over to the Department. At Lieutenant Fullerton's death in March,

Lieutenant Walker was appointed to the Range, he had not joined at the close of the Official year and the forests remained under the Collector, hence the absence of an Annual report.

67. *Establishment.*—Mr. Newman, a second class Overseer was appointed to this Range under the Deputy Conservator, and joined on the 21st of September 1868, he has had a good training in planting operations on the Neilgherries.

On the 16th March 1869 the whole establishment was remodelled (*vide* G. O. No. 699 of that date) and now stands as follows:—

		RS.
	1 2nd Class Conservator	700
	1 2nd Class Overseer	80
	Travelling allowance of do	30
68.	*Paupanassum and Alwarcoorchy.*	
	1 Maistry	15
	12 Peons at 6 Rupees each	72
69.	*Calcad.*	
	1 Maistry	15
	5 Peons at 6 Rupees each	30
70.	*Wartrap and Vasadevanulur.*	
	3 Maistries at Rupees 15 each	45
	12 Peons at 6 Rupees each	72
		1,059

71. *Conservancy.*—Conservancy is quite in its infancy in this Range, Lieutenant Fullerton had made a careful tour through the whole Range in a great part of which he was accompained by the Conservator and schemes were in hand for more systematic conservancy and the formation of depôts, this work will now devolve upon Lieutenant Walker who is well qualified for it, from his experience in Salem.

72. *Theft and Mischief.*—8 cases in which 42 persons were concerned were tried before the Magistrates, in 5 cases in which 25 persons were concerned, the parties were punished with fine and imprisonment; in the other 3 cases in which 17 people were concerned, confiscation only was ordered. The punishments were ample.

73. *Financial Results.*

	RS.	A.	P.	RS.	A.	P.
Expenditure.						
Establishment	6,936	10	8			
Contingencies	64	3	8			
				7,000	14	4
Receipts.						
Seignorage on timber	13,453	4	6			
Confiscation	243	8	2			
Miscellaneous	11	1	3			
				13,707	13	11
Balance in favor of Government				6,706	15	7

74. ANAMALLAYS.—*Superintendence.*—These forests have remained under Captain Gosling during the year.

75. *New ghaut road.*—A very good ghaut road from the foot of the timber slip to the entrance of the Teak Forests was constructed during the year at the small cost of Rupees 4,009 Greatcredit is due to Captain Gosling from the small cost at which

it has been constructed; the gradient is an average of 1 in 18, and nowhere more than 1 in 12.

76. *Forest Roads.*—A new road through the forests above ghaut from Puliaddy to the head of the timber slip was completed during the year, it is a saving of nearly 3½ miles over the old road.

77. *Road below ghaut.*—The road from the timber slip toward Mungarah, and Palghaut was repaired by the Department as far as Chumnampaddy at a cost of Rupees 570-2-0.

78. *Operations.*—On account of the large stock of timber still in the forest depôts, no felling took place during the year.

79. *Carting.*—The Government Cart Establishment conveyed 587 logs, and dockyard planks containing 8,805, cubic feet from the depôts in the forest to the head of the ghaut, 885 pieces (side slabs, small logs and refuse planks) containing 12,825 cubic feet from the foot of the ghaut to Annamallay village, 82 logs and planks containing 1,312 cubic feet from foot of ghaut to the Mungarah floating station, and 24 Rosewood logs containing 480 cubic feet and 8 Vengay logs containing 128 cubic feet from Sholay Kurray to the Railway station at *Walyar.*

80. The cart contractors carted 509 planks and logs containing 7,635 cubic feet from the foot of the ghaut to Mungarah at a cost of Rupees 2,414.

1,210 planks were floated from Mungarah to Ponany on the western coast.

81. *Slipping.*—600 logs and planks were slipped by the Government elephants.

82. *Forest fires.*—No loss occurred to any of the timber from the annual fires.

83. *Seignorage.*—The seigniorage collections amounted to Rupees 2,679-11-3.

84. *Sales.*—Auction sales of inferior timber realized Rupees 3,087-6-2 from depôt.

Sales from the forest depôts realized Rupees 19,567-2-6.

Timber to the value of Rupees 44,731-6-1 was supplied to Public Departments during the year, but the accounts, etc., were not settled at the close of the official year.

85. *Ponachy Forests.*—The felled timber in these forests was not found to amount to more than 10,000 cubic feet, so Government only allowed Mr. Lowry a compensation of 3,000 Rupees in lieu of 5,000; unless a road is made up the ghaut it will be both difficult and expensive to remove this timber.

86. *Health of establishment.*—Jungle fever was prevalent as usual, and several of the subordinates of the establishment were carried off.

87. *Demands for timber exceed supplies in depot.*—The demand of the Bombay Marine and Gun Carriage, and the Madras Department Public Works and Gun Carriage Departments exceed the stock of timber now in depôt, and felling will have to take place during the ensuing season.

88. *Loss by tigers.*—Several casualties have occurred amongst the cattle of the establishment from tigers.

89. *Financial results.*

	RS.	A.	P.	RS.	A.	P.
Expenditure.						
Establishment	10,997	0	4			
Contingencies	135	13	6			
Working charges	19,911	12	11			
				31,044	10	9

Receipts.	RS.	A.	P.	RS.	A.	P.
Timber sold from depots	24,722	1	6			
Seignorage	2,679	11	3			
Auction sales	3,087	6	2			
				30,489	2	11
Balance against Government.	.....			555	7	10
Timber in depôt on 31st March 1868	2,16,546	12	0			
Deduct timber sold in 1868-69	24,722	1	6			
Balance in hand 31st March 1869	1,91,824	10	6*			
Deficiency in stock	... .			24,722	1	6
Financial results	. .....			25,277	9	4

90. BOLUMPATTY, SHOLAY KURRAY AND CHENAT NAIR.—*Superintendence.*—These forests were worked during the year by Overseers Mootoosawmy and Lloyd, under Captain Gosling.

91. BOLUMPATTY.—*Tract of forest in dispute.*—The claim of one Andu Sait, a Coimbatore merchant to a tract of forest on the Bolumpatty hills has not yet been settled, though repeated references have been made to the Collector and the Conservator, twice visited the tract, a much larger portion than was before supposed is now claimed, and felling operations cannot be carried on in a large area until the boundaries are settled.

92. *Seignorage.*—A revenue of Rupees 3,206-5-3 was realized by the sale of Licenses against Rupees 1,310-1-9 the cost of establishment.

93. CHENAT NAIR.—*Operations.*—In these forests 52 large rose wood logs and 32 jungle wood logs were felled for the Bombay Marine.

94. SHOLAY KURRAY.—*Operations.*—*Slipping* 73 logs of rose-wood and 9 of jungle wood felled last year were slipped by Elephants.

95. *Carting.*—81 logs of rose-wood, 39 of Vengay, 9 of jungle wood, 91½ pairs of spokes and felloes, 2,685 cubic yards of fuel were carted by Contractors from the foot of the ghauts to the Railway station of Walyar.

96. *Felling.*—4 rose wood logs, 3 Vengay and 9 jungle wood were felled, and 91½ pairs of spokes and fellows were prepared from old teak stumps.

97. *Fuel Reserve.*—This has been trenched and fenced in on the eastern and western sides at a cost of Rupees 950-12-2. The northern side is shut in by the hills, and the southern by the Railway, the conservancy of the existing timber has received attention, and a nursery has been formed for extending planting operations.

98. *Financial results.*

Expenditure.	RS.	A.	P.	RS.	A.	P.
Establishment	2,850	1	9			
Contingencies	140	1	7			
Working charges.....	5,175	15	2			
				8,166	2	6

* N. B.—Of this Rupees 44,731-6-1 the value of Timber supplied to Government Departments will be accounted for in the accounts for 1869-70.

Receipts.	RS.	A.	P.	RS.	A.	P.
Timber sold from depôt.....	1,286	0	0			
Seignorage...	3,191	5	3			
				4,477	5	3
Balance against Government.	.....			3,688	13	3
Timber in depot on 31st March 1868.....	6,791	12	0			
Add Timber felled during 1868-69	8,166	2	6			
	14,957	14	6			
Deduct sold in 1868-69.....	1,286	0	0			
Timber on hand 31st March 1869.....	13,671	14	6*			
Deduct deficiency in Stock ...	.....			6,880	2	6
Financial results	.....			3,191	5	3

99. MUDUMALLAY.—*Superintendence.*—These forests have remained under Colonel Morgan during the year, and been worked by Overseer Iyasawmy Naick.

100. OPERATIONS.—*Felling.*—23,460 cubic feet of Teak, Vengay and jungle wood was felled and stored during the year at a cost of 2,313-8-10; the felling was very limited as there is still a large stock of timber on hand.

101. *Dragging.*—The elephants have dragged 45,587 cubic feet of timber from the forests to the road.

102. *Carting.*—The cart establishment has carted 38,742 cublic feet of timber from the forest depôts to Tippacadu, Seegoor and other depôts on the high roads, the value of the work performed is estimated at Rupees 9,946, against the cost of the establishment which was Rupees 6,794.

103. *Teak Plantations.*—The growth of the trees in the plantation at Mudumallay is fair.

A second small teak plantation is about to be formed at Bennie further west in the forest and more under the influence of the south west monsoon.

104. *Sales.*—Timber to the value of Rupees 3,545-11-5 has been sold to the public.

Rupees 538-0-4 has been realized by seignorage, etc.,

24,555 cubic feet of Teak have been supplied to the Public Works on the Neilgherries and 4,935 cubic feet to the Public Works in Wynaad, making a total of 29,490 cubic feet valued at Rupees 56,758-2-4.

105. *Want of a Labor Contract Law.*—Colonel Morgan much complains of this want of his report, all his cart contractors desert him during the coffee carting season, with a Contract Law he is in favor of the advance system.

106. *Health of Establishment.*—Fever has been prevalent as usual, besides Dysentery and Measles.

107. *Theft and Mischief.*—There were no prosecutions.

108. *Financial Results.*

Expenditure.	RS.	A.	P.	RS.	A.	P.
Establishment.....	17,306	8	9			
Contingencies.....	160	6	0			
Working charges.....	32,327	11	10			
				49794,	10	7

* N. B.—Of this Rupees 8,798-14-1 the value of Timber supplied to Government departments will be accounted for in the accounts for 1869-70.

Receipts.	RS.	A.	P.	RS.	A.	P.
Sale of timber to public.....	3,536	11	5			
Seignorage.....	547	0	4			
Value of timber supplied to Public Works Department.	55,930	11	8			
				60,014	7	5
Balance in favor of Government	.....			10,219	12	10
Balance of timber on hand 31st March 1868	1,86,825	7	0			
Add felled in 1868-69	47,878	7	5			
	2,34,703	14	5			
Deduct sold.....	60,226	7	1			
Balance on land 31st March 1869	1,74,477	7	4			
Deduct deficiency in timber..	.....			12,347	15	8
Financial results. Deficiency.	.....			2,128	2	10

109. *Seegur and Suttiamungalum.*—These forests have been carefully worked and conserved during the year by Overseer Appavu Mudally under Colonel Morgan.

110. *Operations.*—4,278 maunds of sandal wood have been felled and stored, valued at Rupees 10,427-1-0.

111. *Theft and Mischief.*—There were no prosecutions.

112. *Seignorage.*—Sales of Licences have realized a sum of Rupees 1,759-3-0.

113. Sales.—*Timber to Department Public Works.*—Rupees 4,000 worth of timber has been supplied to the Department Public Works.

Sandal to the value of Rupees 16,500 and Teak to the value of Rupees 1,100 have been sold to merchants.

114. *Sandal-wood plantation.*—The year has been dry and unfavorable to planting operations. 3,650 young trees have been put out during the year, the expenses of the plantation have been Rupees 580-15-4, including new Nurseries.

115. *Health of Establishment.*—This has been pretty good.

116. *Financial Results.*

Expenditure.	RS.	A.	P.	RS.	A.	P.
Establishment.....	1,806	0	0			
Working charges.....	5,605	6	0			
Contingencies.....	19	14	0			
				7,431	4	0
Receipts.						
Sale of Sandal wood, etc.	17,600	0	0			
Seignorage	1,757	0	7			
Timber supplied to D. P. W....	4,000	0	0			
Miscellaneous.....	2	2	5			
				23,359	3	0
				15,927	15	0
Balance in favor of Government.	.....					
Balance of timber in stock 31st March 1868	31,068	13	6			
Add felled during the year ...	10,427	1	0			
	41,495	14	6			
Deduct sold during the year ...	22,093	3	3			
Balance of timber in stock 31st March 1869...	19,402	11	3			
Deficiency in stock.....	.....			11,666	2	3
Financial results for 1868-69.....	.....			4,261	12	9

117. Bhowani.—*Superintendence.*—The work during the year has been carried on by Overseer Grant under Colonel Morgan.

118. *Operations.*—The usual conservancy of the jungles has been attended to.

3,545½ maunds of Sandal-wood valued at Rupees 12,171-8-2, have been felled and stored in depôt.

119. *Seignorage.*—The sales of Licenses realized Rupees 3,856-1-10.

120. *Sales.*—Sales of Sandal-wood realized Rupees 12,000.

121. *Plantations.*—Colonel Morgan could not find any favorable site for a fuel plantation near Cauverypooram, but he has now selected a small piece of ground near Bhowani, and if it can be obtained, a plantation will be commenced.

A site for a small Sandal-wood plantation has been selected on the Burghoor hills and operations will commence at once.

122. *Theft and Mischief.*—There was one prosecution only which was for theft and the two persons concerned were sentenced to ten days' simple imprisonment.

123. *Health of Establishment.*—All the establishment have suffered more or less from fever.

124. *Financial Results.*

Expenditure.	RS.	A.	P.	RS.	A.	P.
Establishment.....	2,400	0	0			
Working charges...	3,610	1	2			
Contingencies...	35	7	7			
				6,045	8	9
Receipts.						
Sale of Sandal wood.....	12,000	0	0			
Seigniorage.....	3,856	1	10			
				15,856	1	10
Balance in favor of Government.	.....			9,810	9	1
Balance of timber on hand 31st March 1868.....	1,354	10	6			
Add felled during the year... ...	12,171	8	2			
	13,526	2	8			
Deduct sold.....	12,000	0	0			
Balance of timber on hand 31st March 1869...	1,526	2	8			
Add surplus stock	.....			171	8	2
Financial results for 1868-69 ...	.....			9,982	1	3

125. Collegal.—*Superintendence.*—These forests have been worked by Mr. Spring his health is not such as to allow of his travelling as he ought to, towards the close of the year he got a sun stroke and he has proceeded on sick leave for three months, he takes his pension in November.

126. *Operations.*—3,833 Maunds of Sandal-wood valued at Rs. 13,566-11-6 have been felled and stored in depôt.

127. *Theft and Mischief.*—There were no prosecutions.

128. *Plantations.*—A small Sandal-wood plantation has been commenced.

129. *Seignorage.*—Rupees 1,166-5-9, was realized by the sale of Licenses.

130. *Sales.*—Sandal-wood to the value of Rupees 14,026-4-0 was sold to merchants.

131. *Financial results.*

	RS.	A.	P.	RS.	A.	P.
Expenditure.						
Establishment	2,400	0	0			
Working charges	4,406	7	3.			
Contingencies	0	0	0			
				6,806	7	3
Receipts.						
Sale of Sandal wood	14,026	4	0			
Seignorage	1,166	5	9			
Miscellaneous	146	0	0			
				15,338	9	9
Balance in favor of Government.	.....			8,532	2	6
Balance of timber in stock 31st March 1868	2,610	15	0			
Add felled during the year	13,566	11	6			
	16,177	10	6			
Deduct sold	14,026	4	0			
Balance on hand 31st March 1869.	2151	6	6			
Deduct deficiency in stock	.....			459	8	6
Financial results for 1868-69	.....			8,072	10	0

132. *Neilgherry Sholas.*—The Sholas remained under Colonel Morgan during the year and operations were conducted by Overseers Newman and Taylor; at the end of the Official year, they were all handed over together with the establishments and the different plantations entirely to the Commissioner.

133. *Boundaries.*—The Boundaries of the Government Sholas are still under demarcation, the work progresses slowly.

134. *Devi Shola.*—Government gave up all claim to the felled wood in this Shola; after the expiration of the two years, the owner had not fulfilled his part of the agreement.

135. *Clandestine felling.*—Much wood has been confiscated as clandestinely felled but such trifling punishments have always been awarded that there has been little chance of checking smuggling.

136. *Operations.*—The operations have consisted of conserving the Government Sholas, forming Nurseries, extending planting operations in different Sholas and supplying the Department Public Works with fuel.

137. *Scignorage.*—The amount realized by sale of Licences has been Rupees 2,681-11-0.

1,633 Bandy loads of fuel to the value of Rupees 999-4-0, were supplied to the Lawrence Asylum Works and Wellington Work-shop.

138. *Plantations.*—In the Eucalyptus plantation at Ootacamund 1,814 young trees of Eucalyptus have been planted out and 780 Pinus Pinaster var, Maritima and a large quantity of Eucalyptus globulus have been mossed, and 7,500 are now ready for planting out. Rats have committed much damage lately in the Nursery and some trees in the plantation have been killed by injury to the roots from these animals. Measures should be taken to exterminate them.

137. *Rapid growth and value of the Blue Gum.*—The great value of the timber of Blue Gum or Eucalyptus globulus is not generally known, in Australia it is the best building timber known (though most of the numerous species of Eucalyptus yield valuable timbers) and is said to be fully equal to the best Indian Teak; its rapidity of growth on these hills exceeds that of any tree indigenous or introduced, and has been the admiration of all Forest Officers who have visited our plantations. Its cultivation should be largely extended on all our hill ranges; it grows, well on grass land but its growth is not nearly so rapid as in Shola land, the planting is more expensive and precarious, and it is much affected by wind. All sholas thinned out or deforested for firewood should be renewed with this tree, it exhibits the most favorable growth when planted inside sholas of the indigenous trees (particularly in the ravines) as it soon overtops all the native trees and it has complete shelter from the wind when young; one tree in such a locality in the grounds of Gaytonpark at Ootacamund may be mentioned as quite a sight, it is upwards of 12 feet in girth and of enormous stature. If the Railway is to be extended to Cullar, the ravines up the Coimbatore slopes of the hills might be largely planted with this tree at elevations above 3,500 feet. In Australia this tree has been measured upwards of 400 feet in height and 40 feet in girth.

138. *Introduction of new trees.*—The colossal Eucalyptus fissilens (or Missmate) the Eucalyptus Stuartiana and Eucalyptus sideroxylon and several other species have been introduced during the year and are growing well. Application has been made to Australia for the three different species of Járá (Eucalyptus Mahagoni, rostrata and marginata) which yield such valuable sleeper timber and are said to be impervious to the attack of the sea-worm, they have not yet been received, there are a few young plants of the Eucalyptus Mahagoni at Ootacamund but the other species have not yet been introduced.

The following trees were received during the year from Kew in large Wardian Cases, they arrived in first rate condition and are growing very well in the Nurseries on the Neilgherries.

100.	Quercus pedunculata	British Oak
100.	„ cerris	Turkey Oak.
100.	Custanea vesca	Sweet chesnut.
100.	Æsculus hippocrastanum	Horse-chesnut.
100.	Fraxinus excelsior	The Ash.
25.	Ornus Europeus	The flowering Ash.
75.	Carpinus betulus	The Hornbeam.

A subsequent case contining several hundred of the two species of Oaks was forwarded to the Pulney Hills.

A large quantity of the seeds of all the above besides seeds of the Sycamore (Acer pseudo-platanus) the Norway Maple (Acer platanoides,) the Alder (Alnus glutinosa) the Lime (Tilia Europea) the Birch (Betula alba) and the Beech, (Fagus Sylvatica) were also received in a dry box, but they had all lost their germinating powers from having got damp. Seeds of some of the above placed in the soil in the Wardian cases in between the plants all arrived in good condition and are now growing well in the nurseries.

The Quercus cerris or Turkey Oak has never been introduced before; the common Oak grows here and becomes a small tree, but is very poor compared to what it is in Europe.

The sweet chesnut will probably answer but it is not expected that the growth of most of these deciduous tree will be favorable on these hills as they require the winter.

The Walnut grows so well on these hills and fruits so abundantly that its cultivation on a larger scale is very desirable, if only for its valuable timber.

Seed of the following Coniferæ were received during the year from Kew and are growing very well. Half in our nurseries and half in the Government Gardens.

Pinus Benthamiana.
" Pallasiana.
" Laricio adunca.
" Laricio corsica.
" Laricio altissima.
" Laricio caramanica.
" Laricio.
" Pyrenaica.
" Muricata.
" Insignis.
" Bungeana.
" Austriaca.
" Sylvestris horizontalis.
" Sylvestris Germanica.
" Sylvestris.
" Pinaster Semoniana.
" " Maritima.
" " Religiosa.
" Inops.
" Excelsa.
" Pinea.
" Taurica.
" Panderosa.
" Tuberculata.
" Seratina.
Picea Pinsaps.
" Webbiana.
" Cephalonica.
" Nordmaniana.
Abies Dowglasü.
" Alba.
Larix Europea.

Many of these trees will grow well here, and their introduction is of great value. Amongst coniferæ no tree grows here more rapidly or finer than the Himalayan Cupressus torulosa and its extended cultivation should be attended to, it is highly ornamental and the timber is valuable.

The Pinus Pinaster var: Maritima was largely introduced last year and is growing very well, it will be a valuable introduction as its growth is rapid and good as proved by several trees of ten or twelve years standing in the Botanical gardens.

Dr. Brandis forwarded large packets of seed of the following Himalayan trees; but as they arrived at the close of the official year, they were handed over to the Commissioner. A few of the seed were however sent to the Botanical gardens, and some to the Pulney hills.

The Cashmere Cherry.
Quercus incana ..... Himalayan Oak.
Fraxinus floribunda ..... Ash.
Cedrus deodara ..... The Deodar.

Picea Webbiana.
Cupressus torulosa.
Juniperus excelsa.
Pyrus kumanensis.
Taxus baccata.
Abies Smithiana.
Pinus Geradiana.
" Excelsa.

Seeds of the following fast growing Australian trees not previously introduced were received from Australia at the close of the year, and were consequently handed over to the Commissioner; most of them are trees with spreading tops, a great desideratum.

Acacia pycnantha (a tree of great beauty.)
" implexa.
Callitris cupressiformis.
Callitris Gunnii.
Casuarina paludosa.
Exocarpus cupressiformis.
Myoporum insulare
Tristania longifolia.

The Officiating Conservator has been in correspondence with all the forest Officers in India and Burmah for the exchange of tree seed, etc., also with Kew, the Mauritius, Australia and Ceylon. Seed have been forwarded from our different forests to Kew, Ceylon, the Mauritius, Australia and different part of India.

139. *Advantages and disadvantages of the two common Australian acacias.*—The Acacia dealbata (Link) or Australian wattle (often but erroneously called Acacia mollissima on the Neilgherries) and the Acacia melanoxylon or Australian Blackwood are unrivalled on our hill ranges for firewood plantations or as screen from the wind, and the former grows wonderfully as Coppice, and the latter has very valuable timber, the former however is a perfect nuisance in small grounds or gardens and bids fair to overrun some parts of the station of Ootacamund as can be easily seen in the Bishopsdown grounds and many other places, its roots spread most rapidly in every direction and suckers come up by the thousands to the exclusion of all other vegetation, the roots of the latter tree also spread considerably and are a great nuisance near roads, nothing will grow near either tree without constant digging and removal of roots. If Ootacamund was deserted, the whole basin would probably at no lengthened period become a forest of these trees to the exclusion of almost all other vegetation.

140. *Theft, Mischief, etc.*—30 cases in which 170 people were charged with stealing wood were brought before the authorities, only one case was dismissed, and punishment awarded in all the others, but this was generally only six hours imprisonment.

141. *Financial Results.*

	Rs.	A.	P.	Rs.	A.	P.
Expenditure.						
Establishment	3,356	3	10			
Working charges	1,877	15	2			
Contingencies	46	0	0			
				5,280	3	0
Receipts.						
Seignorage	2,681	11	0			
Timber supplied to Department Public Works	999	4	0			
				3,680	15	0
Balance against Government				1,599	4	0

142. *Wellington Australian plantation.*—The planting operations have been most carefully and successfully carried on by Overseer Newman.

143. *Operations.*—7000 young trees of acacia melanoxylon and 11,200 of Acacia dealbata have been planted out during the year.

144. *Theft Mischief, etc.*—No prosecutions during the year.

145. *Financial Results.*

Expenditure.	RS.	A.	P.	RS.	A.	P.
Working charges	1,518	4	0	1,518	4	0
Receipts.						
Sale of fire wood from plantations	107	9	6			
				107	9	6
Balance against Government				1,410	10	6

146. SALEM.—*Superintendence.*—This district remained under the charge of Lieutenant Walker during the official year.

147. SALEM TALOOK.—*Superintendence.*—Fourth Class Overseer, Rungiah Naidoo, has had charge of the operations in this talook under Lieutenant Walker.

148. *Operations.*—The Voucher and Licence system is being gradually given up to a great extent in favor of departmental working.

774 Sandalwood besides other trees have been cleared of creepers on the Kollay Mallays.

The firewood reserve A. near the Shevaroy Hill Railway station has been extended so as to include the slopes of some spurs of the adjoining hills.

Nurseries have been formed in all the fuel reserves.

Several tracts of forests have been market out for Locomotive fuel requirements.

The settlement of the boundaries on the Kolroys has been delayed pending the result of the suit instituted by the Pollygar's Contractor.

149. *Depots.*—208 maunds 10½lbs. of Sandal-wood has been felled and stored in the depôt.

150. *Firewood and charcoal.*—These are now Cased out on contract from tracts marked off by the Department, the Contractors are bound down to grant passes at the Government rates of seignorage.

151. *Theft, Mischief, Trespass, &c.*—20 cases in which 53 persons were concerned were brought before the Magistrates during the year, 45 persons were convicted and 8 acquitted: the punishments were too light.

2 cases in which the timber, &c., was confiscated were settled departmentally.

Lieutenant Walker reports that as a rule he refrains from prosecuting in this range, as the right of the Department to enforce its rules by Law is often questioned.

152. *Forest Chart.*—A chart of the Kollay Mallayas is under preparation.

153. *Sales.*—208 maunds 10½ lbs. of Sandal wood billets and roots were sold from the depôt.

154. *Railway fuel.*—The Locomotive Department has been supplied with 5,533 tons of fuel at a seignorage of Rupees 6,028-5-9.

455. *Plantations.*—In plantation No. I (Malliapooram) Babul (Acacia Arabica) seed was sown broad-cast and the seed came up well and stands a fair chance of success if the season turns out at all favorable, these plantations have suffered from the failure of the north-east monsoon, and the long subsequent drought.

15

In plantation No. II. (Shevaroys) 28,700 pits were dug and 28¾ acres of fresh jungle cleared, 14,000 trees chiefly Toon (Cedrela Toona) were put out. Teak Eucalypti, Belgam Walnut, Alenrites triloba, Jack, Nim and Acacia lencophlea have also been introduced into the nurseries on a small scale. The Toon plants one year old are ten feet high, the growth of the Pinus Pinaster is slower here at an elevation of about 4,500 feet, than on the Neilgherries at 7,000 feet; but the plants are healthy.

156.—*Financial results.*

Expenditure.	RS.	A.	P.	RS.	A.	P.
Establishment	9,236	11	7			
Working charges.....	3,682	6	8			
				12,919	2	3
Receipts.						
Sale of timber from depôt ...	770	4	11			
Seignorage sales, etc.	34,631	14	1			
Confiscations	534	9	2			
Miscellaneous	35	2	5			
				35,971	14	7
Balance in favor of Forests...	.....			23,052	12	4
Deduct decrease in stock ...	.....			138	1	0
Financial result for 1868-69	.....			22,914	11	4

157. *Tripatore Talook.*—The forests of this range worked by Mr. Franklin under Lieutenant Walker.

158. *Demarcation.*—The Deputy Conservetor visited the Yellagiri and Javadi Hills with the Head Assistant Collector, and preliminary measures were taken for reserve and demarcation.

159. *Depots.*—524 maunds and 12 lbs. of Sandal-wood and 1,374 cubic feet of timber were felled and stored in depôt, and 1,309 cubic feet of timber is under transport from forests to depôt.

201 maunds and 16 lbs. of Sandal-wood and 2,466 cubic feet of timber remain in depôt.

160. *Conservancy, &c.*—392 Sandall-wood trees and 90 other trees were cleared of creepers during the year.

161. *Theft and Mischief.*—31 cases in which 114 persons were concerned were brought before the Magistrates; 85 persons were convicted and 29 acquitted: the punishments were too light. 44 cases were settled departmentally.

162. *Fire-wood and Charcoal.*—These are now let out on contract as in the Salem Talook.

163. *Railway fuel.*—The Locomotive Department were supplied with 4,389 tons of wood fuel at a seigniorage of Rupees 5,105-13-2.

164. *Sales.*—483 maunds and 14 lbs. of Sandal-wood were sold to merchants and 1,939 cubic feet of timber.

165. *Fuel Reserves.*—The two reserves D. and E. commenced last year were fenced in and Nurseries have been formed.

166. *Health of Establishment.*—Fever has been very prevalent.

167. *Financial Results.*

	Rs.	A.	P.	Rs.	A.	P.
Expenditure.						
Establishment.....	4,697	1	4			
Working charges.....	1,433	9	6	6,130	10	10
Receipts.						
Sale of depôt timber...	2,923	13	3			
Seignorage, &c., ...	11,856	7	10			
Confiscations.....	220	9	5			
Miscellaneous.....	48	10	7	15,049	9	1
				8,918	14	3
Balance in favour of Government ...	.....			783	8	7
Add increase in stock of timber.....	.....					
				9,702	6	10
Financial results for 1868-69.....	.....					

168. *Denkinacottah Forests.*—These forests were worked by Overseer, Mahomed Ali under Lieutenant Walker

169. *Roads.*—The Denkinacottah and Auchitty road which was opened out last year as far as Cundacottah by the Department Public Works from forest funds has not been proceeded with for want of money, it will be completed by the Forest Department as far as Sevenhully.

No. II. Road from Pennagara was opened out for some distance and will be completed shortly under the arrangement sanctioned in G. O., No, 778, dated 20th March 1869.

No. III. Road from Pennagara has been completed as far as the Chenar river.

170. *Depots.*—4,190 cubic feet of timber was felled and stored in depôts at Denkinacottah and Pennagara. 1,287 maunds 17½lbs. of Sandal-wood felled and stored.

750 maunds 23lbs. of Sandal-wood and 3,544 cubic feet of timber remain in depôt.

171. *Conservancy, etc.*—1,356 Sandal-wood trees were cleared of creepers.

172. *Theft and Mischief.*—39 cases in which 161 persons were concerned were brought before the Magistrates, 121 persons were convicted and 40 acquitted. Five cases were settled departmentally.

173. *Sales.*—1,717 maunds of Sandal-wood were sold to merchants. 4,438 cubic feet of timber and a large amount of bamboos.

174. *Timber supplied to Government Departments.*—The Remount depôt at Oosoor and the Department Public Works have been supplied with timber from our depôts.

175. *Health of Establishment.*—Fever has been very severe.

176. *Financial Results.*

	Rs.	A.	P.	Rs.	A.	P.
Expenditure.						
Establishment.....	5,085	0	11			
Working charges...	4,285	4	11	9,370	5	10
	12,234	9	4			
Receipts.						
Sale of timber from depôts.....						
Timber supplied to Government Departments.....	435	13	11			
Seignorage, etc., ...	3,076	7	5			
Confiscations.....	49	13	0			
Miscellaneous.....	2	4	0	15,798	15	8
				6,428	9	10
Balance in favour of Government	.....			2,176	5	1
Deduct deficiency in stock.....	.....					
				4,252	4	9
Financial results for 1868-69.....	.....					

188. *Sales.*—100 candies of Blackwood were supplied to the Gun Carriage Department in Bombay; a small amount of Sandal-wood felled in the Northern part of the district sold at 3 Rupees per maund, it is of inferior quality. Timber to the value of Rupees 4,743-12-1, was sold to private purchasers from our coast depots, and 160 candies out of our jungle depots.

334 Candies of timber were supplied to the Department Public Works from our coast depots.

4,000 Rupees worth of timber was supplied to the Department Public Works, in the Mangalore Range but has not been paid for during the year.

Mangowood for packing cases to the value of 2,500 Rupees was supplied to a Merchant at Mangalore but not paid for during the year.

189. *Timber felled by Department Public Works on Seignorage.*

179 logs of reserved timbers containing 217 candies, and 104 logs of jungle-wood containing, 182 candies were felled by the Department Public Works at Seignorage rate which realized Rupees 2,033.

190. *Auctions.*—The annual depot auctions were postponed, and did not take place during the year owing to the absence of the Assistant Conservator.

191. *Plantations.*—The Teak plantation at Parapa shows good growth, a small plantation of Teak mixed with Jack has been formed at Hospett.

192. *Health of Establishment.*—This has been very bad and almost every one on the establishment has suffered from fever.

193. *Financial Results.*

	Rs.	A.	P.	Rs.	A.	P.
Expenditure.						
Establishment.....	8,417	6	8			
Working charges.....	13,446	6	11			
	21,863	13	7			
Receipts.						
Seignorage, etc.....	9,822	10	7			
Sales of Timber from depot	4,823	12	1			
Confiscations.....	10,212	8	3			
Timber suppled to Department Public Works.....	4,910	0	0			
Miscellaneous.....	295	8	0	30,064	6	11
				8,200	9	4
Balance in favour of Govt...	.....					
Timber on hand 31st March 1868.....	35,542	3	2			
Felled during 1868-69.....	7,444	8	0			
	42,986	11	2			
Deduct sold.. 7,620 12 1						
Do. destroyed by fire,&c. 625 11 1	8,246	7	2			
Timber on hand 31st March 1869.....	34,740	4	0			
Deduct deficiency in stock of Timber.....	.....			801	15	2
Financial result.....	.....			7,398	10	2

194. Wynaad.—*Superintendence.*—On the 25th of May 1868, the range was handed over to Mr. Turnbull by Lieutenant Fullerton. In January, Mr. Turnbull was suspended by the Officiating Conservator as he neglected to answer corres-

pondence, or send in returns, and Mr. Cherry assumed charge of the range on the 5th of February, it then came to light that Mr. Turnbull had embezzled a quantity of the timber in depot, and had left his district without leave, and quitted the country, special reports on the subject are before Government, and it is believed that Mr. Turnbull has been caught in Europe.

195. *Operations.*—Felling operations were suspended owing to the large stock of timber on hand, and only 2,246 cubic feet of timber valued at Rupees 842-4-0, were felled, 9,633¾ cubic feet of Teak were carted from the forests into depots. 22,186¾ cubic feet of Teak were floated from the forest depot at Goondry to Hirnandy depot near Mysore, 1,994 cubic feet of Teak, 192 of Black-wood, and of Honi mere floated from the forest depot at Baigur to Hirnandy depot.

196. *Sales.*—The sum realized only amounts to Rupees 373-13-4, timber to the value of Rupees 33,100 was sold by Mr. Turnbull to two Merchants in Mysore, but Mr. Turnbull has appropriated the money and left the country.

197. *Health of Establishment.*—Fever has been very prevalent.

198. *Financial Results.*

	Rs.	A.	P.	Rs.	A.	P.
Expenditure.						
Establishment.....	6,007	7	4			
Working charges.....	2,211	3	9			
				8,218	11	1
Receipts.						
Sale of timber.....	.....			380	13	4
				7,837	13	9
Balance against the forest...	.....					
Value of timber on hand 31st March 1868.....	44,377	3	7			
Felled during 1868-69.....	842	4	0			
Increase in value of timber..	11,079	4	6			
	56,298	12	1			
Sold to merchants.....	373	13	4			
Embezzled by Mr. Turnbull.....	33,100	0	0	33,473	13	4
Balance on hand 31st March 1869.....	22,824	14	9			
Add decrease in stock.....	.....			21,552	4	10
Financial result, deficit.....	.....			29,390	2	7

199. Nellumbur.—*Superintendence, etc.*—Mr. Ferguson has remained in charge during the year.

200. *Opertions.*—105 acres were planted with 1,04,000 teak seedlings.
3,350 „ of old plantations weeded.
391 „ pruned.
700 „ cleared from parasites (Loranthus.)
75 „ new site for planting felled.
15 „ do. do. burned.

201. *Felling.*— 220 logs of jungle wood felled.
164 do. do. dragged into depôts.
20,000 saplings felled in thinning operations.

202. *Floating.*— 352 logs floated to coast depôt by establisement.
14,000 saplings do. do. do.
2,960 bamboos do. do. do.

177. *Forest products.*—Lieutenant Walker's remarks on Forests products are deserving of careful attention, the Revenue Board are at present much opposed to any departmental collections or to any revenue being derived from these articles except in strictly reserved tracts, a very large and perfectly legitimate revenue however, is to be derived from the fruit of trees (tamarinds, etc.,) gall nuts, dyes, etc., and in some districts it is estimated that such would more than cover all the cost of our establishments, it is a mistake too, to suppose that it would be against the interests of the hill men, they would still collect as hitherto; but the Forest Department would give a better price than the chetties and petty merchants in whose hands they now are, and by whom they are often much cheated.

178. *Revenue and Expenditure of the district.*—The Revenue of the whole Salem District amounts to Rupees 66,820-7-4 against an expenditure of Rupees 28,420-2-11 and the timber in store is estimated at Rupees 7,804-10-1 which shows a decrease of Rupees 1,481-2-4 over that at the end of last year. Much of the expenditure is extraordinary, *viz.*; Roads, Rupees 2,945-7-11. Formation of timber yards, Rupees 435-12-6; formation of Railway fuel reserves, Rupees 2,825-12-5.

179. *Seignorage.*—In the whole Range the following is a List of what has been removed during the year on payment of seignorage:—

	Bandy loads.		Head loads.
Timber 1st Class	368		
2nd „	164		
3rd „	252		
	784	.....	4,301
Firewood	13,212		
Bamboos	5,417	.....	73,214
Bark	924	.....	81
Charcoal	4,802	.....	562

180. *Free passes.*—The following is a List of what has been granted on free passes during the year:—

136 Bandy loads of timber.
3 „ „ Small bamboos.
30 „ „ Firewood.
727 Head loads „ Frames.
2,042 „ „ Joists.
7,384 „ „ Props.
10,273 „ „ Pen Props.
7,328 „ „ Poles and Pegs.
4,520 „ „ Plough shares.
635 „ „ Handles.
926 „ „ Yokes.
50,710 „ „ Small bamboos.
26,045 „ „ Split bamboos.
48 „ „ Charcoal.

181. *Confiscations.*—1,173-13-10 is the amount realized during the year on the sale of confiscated timber, etc., of this sum Rupees 804-15-7 were credited to the department, and Rupees 368-14-3 to informers.

182. *Financial results of the whole Range.*

	Rs.	A.	P.			
Expenditure.						
Establishment.....	13,130	7	1			
Contingencies.....	334	1	10			
Working charges.....	14,955	10	0			
				28,420	2	11

Receipts.

Seignorage, etc.....	49,564 13 4		
Sales of timber from depot....	15,928 11 6		
Confiscations.....	804 15 7		
Timber supplied to Department Public Works.....	435 13 11		
Miscellaneous.....	86 1 0		
		66,820 7 4	
Balance in favor of Government.....	.....	38,400 4 5	
Timber on hand 31st March 1868.....	9,241 12 5		
Felled during 1868-69.....	15,291 4 1		
		24,533 0 6	
Deduct sold.....	16,364 9 5		
„ loss in market rates.	457 8 2		
		16,822 1 7	
Timber on hand 31st March 1869.....	7,710 14 11		
Deduct deficiency in stock of timber.....	.....	1,530 13 6	
Financial result.....	.....	36,869 6 11	

183. South Canara.—*Superintendence.*—Mr. Cadell remained in charge of these forests during the first eight months of the official year, but illness compelled him to leave the district on Medical certificate for 3½ months, he rejoined before the close of the year.

184. *Felling Operations.*—Owing to an ample stock of timber in depots little or no felling was carried on during the year. 100 candies of Blackwood were felled on special indent for the Bombay Gun Carriage Department, and about 400 candies of junglewoods were felled on a private indent for coffee cases.

185. *Floating Operations.*—

351 logs of junglewood, 8 „ „ Blackwood, 2 Boats,	From Hully Bugle to Condapore.
177 logs of Mango, 27 „ „ Blackwood, 11 „ „ Junglewood, 6 „ „ Teak, 4 „ „ Jackwood, 3 „ „ Ebony, 3 Boats,	Yeneckul and Sooliah to Mangalore.
70 logs of Blackwood.	From Maloot to Katkatcherry.
80 „ „ Junglewood, 31 „ „ Teak, 5 „ „ Blackwood, 1 „ „ Ebony,	From Parapa to Cassergode.
183 „ „ Junglewood, 26 „ „ Wild Jack,	From Yeneckul to Upinangudy.
117 „ „ Junglewood.	Hully Bugle to a distance of three miles.

186. *Conservancy.*—The usual clearing of trees from creepers, etc., and pruning has been carried out, and there has had no loss from fire.

187. *Catechu Jungles.*—These have not been leased out during the year as they require rest, departmental working or at least the marking of the trees by the department seems to be desirable and is under consideration.

203. *Experimental growth of cereals, etc., with young Teak.*—The experimental growth of dry grains and vegetables amongst the young teak seedlings as practiced in Burmah has been tried and is reported a failure, the teak showing less rapid growth and a less healthy appearance.

204. *Planting of jungle timbers.*—The experimental planting of some of the more valuable timbers of the moist forests of the gauts has been carried on during the year but without favorable results, they all grew well from seed but mostly died out in the drought experienced from December till April: the season was unusually dry and unfavoroble.

205. *Demarcation.*—The plantations west to Nellumbore and the natura forest due north (included in the Government lease) to a circuit of about 22½ miles have been demarcated during the year, traces have been cut and boundry-stones erected at a cost of Rupees 586-6-11. The demarcation was stopped in the feverish son but will be recommenced next October.

206. *Fires.*—A serious fire occured in the plantations in the month of March at the driest time of the year, it swept through portions of the younger plantations: very little damage was done to the young trees, but felled timber to the value of Rupees 5,000 was destroyed in the depôts. At the request of the Collector, Mr. Logan the Sub-Collector fully enquired into the circumstances, but he was not able to arrive at any conclusion as to whether the fire was accidental or incendiary; the plantations and depôts were all fire traced, but the fire was blown over the traces which were 30 to 40 feet wide.

207. *Health of Establishment.*—Fever has been very prevalent as usual.

208. *Financial results.*

	Rs. A. P.	Rs. A. P.
Expenditure.		
Establishment	7,248 8 5	
Working charges.....	10,059 7 8	
		17,308 0 1
Receipts.		
Sale of timber.....	6,163 12 8	
„ Saplings	8,986 14 11	
„ Fire wood and bamboes.	661 11 8	
Miscellaneous	93 14 6	
		15,906 5 7
Balance against Government ...	.....	1,401 10 6
Timber in depôt on 31st March 1868.....	40,106 15 5	
Add felled during 1868-69 ...	13,135 0 0	
	53,241 15 5	
Deduct sold during 1868-69	15,150 9 7	
Deduct destroyed by fire etc ...	5,404 0 0	
	20,554 9 7	
Timber in depôt 31st March 1869.....	32,687 5 10	
Add deficiency in stock.....	.....	7,419 9 7
Financial result for the year, deficiency.....	.....	8,821 4 1

209. Forest Act.—*A Contract Law, no advance system.*—Special reports have been forwarded to Government on these subjects.

The Officiating Conservator is of opinion that the Penal Code is sufficient for checking all Forest misdemeanors except simple trespass. As Government is now going to great expense in the formation of fuel reserves and fuel plantatations, it is necessary that some strict rules should be put in force on this subject, a Cattle Trespass Act may also be required.

210. *Jungle Conservancy.*—Special reports on this subject are before Government. In districts where the Department has establishments, it can hardly be to the interest of Government that certain tracts dovetailing with those under the Forest Department should remain under Collectors, and be worked on different principles and without any reference to the Department, it affords an easy opening to smuggling, and causes a great loss of revenue which has been fully exemplified already.

211. *Loss to the Department of the Neilgherry plantations.*—These plantations have been handed over to the Commissioner of the Neilgherries. Exclusive of pay of Establishment, the Department has spent Rupees 18,373, on the Australian firewood plantation at Wellington, Rupees 3,224, on the Eucalyptus building timber plantation at Ootacamund, and 3,735 on the Governor's Shola plantation. When it was proposed to hand over the sholas to the Commissioner, the Officiating Conservator had no idea that a transfer of the plantations was intended also, and he reported that an Officer in special charge, in addition to the Overseers, was not advisable, the plantations are of great value and interest, if an European Regiment is again stationed at Wellington, the plantations at that place will be of the greatest importance, and the Eucalyptus plantations at Ootacamund will, in a few years, render the hills independant of teak from the low country. They have hitherto received most careful attention from Colonel Morgan, and also from the Conservator, and the Officiating Conservator, unless the Commissioner can spare time to give the planting operations careful attention, they should not be extended, or an Officer with some experience should be appointed.

212. *New plants.*—Some new plants of interest were discovered during the year in the mountain forests of South Tinnevelly, and specimens were forwarded to Kew. A new timber tree (a new species of Humboldia) was also discovered in the same forests and the Shenkurani or red-wood mentioned in the last report was found in flower, and turns out to be a species of a genus new to S. India Gluta (in Anacardiaceæ.) Specimens in flower of both have been forwarded to Kew, and specimens of the timber will shortly be forwarded to the Reporter on Indian products.

213. *Botanical publications.*—The last three numbers of the Ferns of British India which have been chiefly prepared at Kew are now ready and are passing through the press, 615 Ferns have been figured in the forty-three numbers.

A sequel to Dr. Wights "Icones plantarum" has been commenced, in which all new plants lately discovered and rare or interesting ones not hitherto pulished will be figured and described, it will be completed in fifteen numbers, and contain 300 plates, two numbers have already been issued and the third is in the press.

214. *The Flora Sylvatica.*—This work in which all the timber trees of Southern India will be figured accompanied with full descriptions, native names and all known uses, has now been commenced, and part one has been issued and part two

is in the press, it is hoped that the work will be of great use to Forest Officers throughout India and Burmah, and that the publication of the plates, and what information is now obtainable will elicit further information as to the uses, and native names in each Province in which case the letter press will eventually be re-published.

215. *Herbarium.*—The Officiating Conservator has collected for this, during his tours, and specimens have been forwarded from time to time to the Museum.

216. *Financial results for the year.*—The expenditure for the year has been Rupees 2,69,700 and the receipts Rupees 3,91,179 against Rupees 2,72,840 and Rupees 4,24,184 for 1867-68, there is a deficiency in the stock of timber on hand of Rupees 70,428 the Financial result for the year under review is properly speaking the excess of receipts over expenditure, minus the deficiency in the stock of timber, but as in former years the Department has not been given credit for any surplus stock of timber (when there has been a surplus instead of a deficiency,) it should be allowed credit for the full amount of the excess of receipts over expenditure. In some forests, timber is sold but not paid for during the year; the receipt of the money therefore does not appear as a credit until the next year. During the year under review, Rupees 53,530-4-2 worth was sold from the Annamallay and Chennat Nair Forest Depots to Government Departments in Bombay, but the sum does not appear as a credit, as the accounts were not settled before the close of the official year.

Net profit for the year		1,21,479
Deduct difference in value of timber on hand 31st March 1869, from the amount on hand 31st March 1868, ...		70,428
Financial Results for 1868-69,...		51,051

I have the honour to be,
Sir,
Your most obedient servant,

R. H. Beddome Major,
Officiating Conservator of Forests.

Financial Statement of the Forest Conservancy Department, for the official year 1868-69, *in comparison with that of* 1867-68.

Forest Ranges.		Charges inclusive of fixed Establishment and Office contingencies.		Revenue inclusive of receipts, seignorage and sale of timber, &c.		Value of stock of timber on the		Remarks.
		1867-68.	1868-69.	1867-68.	1868-69.	31st March 1868.	31st March 1869.	
		RS.	RS.	RS.	RS.	RS.	RS.	
Ganjam ...	Gumsur and Suradah	4,535	3,296	6,841	6,239	1,136	1,064	
Vizagapatam..	Golgondah	1,238	905	284	378	...	.....	
	Cuddapah	6,596	10,360	36,667	38,444	6,869	17,153	
	Kurnool	8,787	14,509	36,189	41,016	4,307	2,553	
	North Arcot	3,873	5,188	9,910	11,126	627	619	
	South Arcot	2,343	3,190	4,310	3,221	44	94	
	Madura	7,704	6,134	5,030	10,523	7,367	1,888	
	Tinnevelly	1,255	7,001	8,156	13,708	...	...	
	Anamullay	33,210	31,045	58,959	30,489	2,16,517	1,91,825	
	Bolumputty Chennat	4,626	8,166	12,177	4,477	6,792	13,672	
	Nair and Walliar							
	Mudumallay	54,164	49,795	65,059	60,014	1,86,825	1,74,477	
Coimbatore...	Sigur and Sathiamungalum... ...	10,538	7,431	29,152	23,359	31,069	19,403	
	Bhowany	6,676	6,046	15,895	15,856	1,355	1,526	
	Collegal	7,103	6,806	17,816	15,339	2,611	2,151	
	Neilgherry Sholas	5,417	5,280	4,550	3,681	...	...	
	Australian Plantation	1,757	1,518	934	108	...	...	
	Salem	36,679	28,420	53,567	66,820	9,242	7,711	
	South Canara	17,708	21,864	40,043	30,064	35,542	34,740	
Malabar ...	Wynaad	17,177	8,219	15,518	381	44,377	22,825	
	Nellamboor	14,286	17,308	3,097	15,906	40,106	32,687	
	Total...	2,45,672	2,42,481	4,24,184	3,91,179	5,94,816	5,24,388	
Pay of the Conservator, inclusive of Establishment and Office contingencies		27,168	27,219					
	Total...	2,72,840	2,69,700					
Deduct Expenditure		.....	.....	2,72,840	2,69,700			
Actual profit to Government...		.....	.....	1,51,344	1,21,479			
Deduct difference in value of timber on hand on the 31st March 1869, from the amount of the 31st March 1868				83,720	70,428			
	Financial Results...			67,624	51,051			

	MADRAS.				GANJAM.				
	CENTRAL OFFICE.				GUMSOOR AND SURADA FORESTS.				
	Actuals 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate. 1870-71	Amendments proposed by the Local Government.	Actuals 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government,
RECEIPTS.										
I.—Sale of Timber brought to Depôts by Government Agency						101	4,000	4000	4000	
II.— Do. Timber, Firewood, Bamboos, and Charcoal removed from the Forests by purchasers, including Seignorage						4481	2,000	2000	2000	
III.—Duty on Foreign Timber							.....			
IV.—Permit Fees and rent of Jungles, and Privileges							.....			
V.—Grazing dues							.....			
VI.—Sale of Fruits, Babool pods, and other minor forest produce							.....			
VII.—Sale of Confiscated drift and waif Timber							.....			
VIII.—Fines and Forfeitures							.....			
IX.—Miscellaneous Receipts						1651	.....			
Total, Receipts						6239	6,000	6000	6000	
EXPENDITURE.										
A.—CONSERVANCY AND WORKING.										
I.—Timber expenses for felling, cutting, clearing, sawing, and the transport of Timber, by land or water to Depôts, also Charges for storing, securing, watching, piling, and arrangements for selling Timber						1200	2,300	2300	2000	
II.—Purchase of Elephants, Cattle and Dead stock, Tools and Plant							.....			
III.—Feed and keep of Elephants and Cattle							.....			
IV.—Rent of leased Forests and Seignorage paid for Timber felled in leased Forests, shares of villagers and others in the Revenue of Forests							.....			
V.—Charges connected with the collection of Revenue on Grass, Fruits, and Miscellaneous Forests produce							.....			
VI.—Plantations							200	200		
VII.—Forest work, viz. cutting of creepers, protection of forests or trees against fire, and other work for the conservancy and improvement of the Forests charges for selecting, working and girdling of the trees to be felled							.....			
VIII.—Forest Survey, Topographical and valuation Survey, to ascertain the contents of Forests and annual rates of Timber production							.....			
IX.—Experiments to test the value of Timber of different kinds							.....			
X.—Communications, buildings and minor works, fences, boundary pillars and posts, and boundary division paths							.....			
Total of Conservancy and Working						1200	2,500	2300	2000	
B.—ESTABLISHMENT.										
I.—SALARIES.										
1. Pay of Conservator		12,000	6000	12000			.....			
2. Pay of Executive Officers		8,450	13200	16200		1193	.....			
Military Pay of do		4,490		1320			.....			
Pay of the Overseer in charge		.....					1,200	1200	1200	
3. Office Establishment.										
a. Direction		3,300	3340	3340		3268	.....			
b. Executive		.....					360	360	360	
4. Forest Conservancy Establishment		.....				960	624	624	624	
5. Timber Depôts and Work Establishment		.....				672	.....			
6. Deputation and Special Allowances		.....	1200			2504	.....			
7. Dressers—Pay and Batta		.....		28,340			.....			
II.—TRAVELLING ALLOWANCES, INCLUDING BATTA, TRAVELLING EXPENSES, AND TENTAGE.										
1. Conservator		3,600	3600	3600		4006	.....			2154
2. Executive Officers		1,800	900	1800			.....			
3. Subordinate Establishment		200	200	200		116	.....			
III.—CONTINGENCIES.				6500			360	360	360	
4. Sundries including Official Postage		2,500	6500	6500		5532	360	360	360	
							206	206	206	
Total of Establishment and Contingencies		36,340	34940	43640	40640	2219	2,750	2750	2750	
Total Expenditure		36,340	34940	43640	40640	2219	5,250	5250	4950	

Rev: 4/3165/69

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Rev-297/70
From 19th Feb/70 L. 1185

GOVERNMENT OF MADRAS,

BUDGET ESTIMATE,

FOREST DEPARTMENT,

FOR THE YEAR,

1870-71.

21

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Rev-3165/69

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Rev-297/70 dated 19th Feb/70 L. 1185

BUDGET ESTIMATE—FOREST DEPARTMENT—GOVERNMENT OF MADRAS—FROM 1ST APRIL 1870 TO 31ST MARCH 1871.

	VIZAGAPATAM. Golcondah Forest.					CUDDAPAH. Cuddapah Forest.				
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.										
I—		500				684	25,000	30000	30000	
II—	378	500	500	500		36083	19,500	19000	19000	
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—		.....					.....			
VII—		.....				1444	500	1000	1000	
VIII—		.....					.....			
IX—		.....				250	.....	—	—	
	378	1,000	500	500	✓	38444 ✓	45,000	50000	50000	✓
EXPENDITURE. A. I—	10	1,000	200	200		3892	9,500	9500	10000	Rs 5 and A.
II—		.....					.....			
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—		.....					2,000	2000	3000	
VII—		.....					500	500	200	
VIII—		.....					.....			
IX—		.....					.....			
X—		.....					2,000	2,000	700	11,000
	10	1,000	200	200		3892	14,000	14000	14000	
B. I—		.....					.....			
2—		.....				2366	2,400	2400	2400	✓
		.....					.....			
		.....					.....			
I 3— a		.....					.....			
3— b		.....					300	300	342	✓
4—	901	1,008	648	648	✓	3168	2,868	4045	5088	✓
5—		.....					.....			
6—		.....					.....			
7—		.....		648			.....		7860	
II 1—		.....					.....			
2—		.....				690	720	720	720	✓
3—		180	120	120	✓	164	180	180	180	✓
									900	
III 4—	4	102	102	102		108	232	200	400	2,600
	905 ✓	1,290	870	870 ✓	✓	6496 ✓	6,720	7845	9160	✓
	905	2,290	1,070	1,070 ✓	✓	10388 ✓	20,720	21845	23160	✓

	KURNOOL. Nullamallay Forest.					NORTH ARCOT. Chendragherry, Vellore and Polur Forests.				
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.										
I—	3442	3,500	3500	3500		8	100		12000	
II—	34396	30,000	30000	30000		10732	8,400	12,000	13000	
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—	441	500	500	500			.....			
VII—	950	1,000	1000	1000		386	500			
VIII—		.....					.....			
IX—	2014	.....					.....			
	41046	35,000	35000	35000	✓	11126	9,000	12,000	13000	✓
									12,000	
EXPENDITURE. A. I—	7400	1,000	500	1600		2540	500	100	100	
II—		100	100				.....			
III—		1,500	1500				.....			
IV—		.....					.....			
V—		.....					.....			
VI—		200	200	500			3,400	3800	3800	
VII—		100		100			100	50	50	
VIII—		.....					.....			
IX—		50		50			.....			
X—		50	200	250			.....	50	50	
	7400	3,000	2500	2500	✓	2540	4,000	4000	4000	
B. 1—		.....					.....			
2—	2350	2,400	2400	2400			.....			
		.....					.....			
		.....					.....			
3—		.....					.....			
4—	4002	3,276	3648	3648		2733	2,556	2880	2880	✓
5—		.....					.....			
6—		.....					.....			
7—		.....					.....			
				6420					2550	
II 1—		.....					.....			
2—	690	720	720	720			.....			
3—	"	180	180	180			180	180	180	✓
				900						
III 4—	132	250	250	500		1	154	100	100	
	7144	7,570	7570	7820	✓	2734	2,890	3160	3160	✓
	44544	10,570	10070	10320	✓	5274	6,890	7160	7160	✓

BUDGET ESTIMATE—FOREST DEPARTMENT—GOVERNMENT OF MADRAS—FROM 1ST APRIL 1870 TO 31ST MARCH 1871.

	SOUTH ARCOT.					MADURA.				
	SOUTH ARCOT FOREST.					MADURA FOREST.				
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.										
I—	158	2,000	900	150		1050	5,000	4000	7000 10604	
II—	2201	4,000	3850	4000		3328	5,000	4000	3000	
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—	262	.....	100	100			.....		2000	
VII—		.....	50	50		1115	.....			
VIII—		.....					.....			
IX—		.....	100	100			.....			
	3221	6,000	5000	5000		10523	10,000	8000	45000	
EXPENDITURE. A.									12000	
I—	650	700	500	700		1000	1,500	1500	6000	
II—		.....					.....		1000	
III—		.....					.....			
IV—		.....					.....			
V—		.....	400	500			.....		2100	
VI—		200					.....			
VII—		.....					.....			
VIII—		.....					.....			
IX—		.....					.....		900	
X—		100	100	100			.....			
	650	1,000	1000	1300		1000	1,500	1500	10000	
B. I—		.....					.....			
2—	1400 360	.....				2258	.....			
3— 1—		.....					.....			
2—	96	96				504	432	480	480	
4—	443	804	1128	1128		1946	2,268	2340	2340	
5—		.....					.....			
6—		.....					.....			
7—		.....		1128			.....		2520	
II 1—		.....					.....			
2—		.....					.....			
3—	120	120	120	120		137	180	180	180	
III 4—	50	250	250	250		96	250	200	200	
	2469	1,270	1498	1498		4921	3,130	3200	3200	
	3119	2,270	2498	2498		5921	4,630	4400	13200	

	COIMBATORE.									
	ANNAMALLAY FOREST.					CHENAT NAIR AND BOLUMPUTTY FORESTS.				
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.										
I—	2422	75,000	15000	15000		1286	7,000	1000	5000 4000	
II—	5364	5,000	5000	5000		3191	3,000	3000	3000	
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—		.....					.....			
VII—		.....					.....			
VIII—		.....					.....			
IX—		.....					.....			
	30489	80,000	80000	80000		4477	10,000	10000	10000	
									6000	
EXPENDITURE. A. I—	21363	30,000	30000	30000		3482	3,200	3200	3200	
II—		2,000	2000	2000			800			
III—		5,500	5500	5500			1,500	800	800	
IV—		.....					.....			
V—		.....					.....			
VI—		500	500	500			2,000	1000	1,000	
VII—		1,000	1,000	1,000			100			
VIII—		.....					.....			
IX—		.....					.....			
X—		11,000	6,000	1,000	19,600		3,400			
	21363	50,000	45000	40,000		3482	8,000	5000	5000	
B. 1—		.....					.....			
2—	6142	6,000	8400	8400			.....			
		.....					.....			
		.....					.....			
1— 1—										
2—		672	672	672			.....			
4—		.....	312	612		2850	3,000	2880	2880	
5—		4,212	3720	3720			.....			
6—		.....					.....			
7—	245	480	333	333 13437			.....			
II 1—		.....					.....		1550	
2—		.....					.....			
3—		60	540	540 540			.....			
III 4—	136	506	500	500		140	200	540	540	
	11133	11,930	14477	14477		2990	3,200	200	200	
	32496	61,930	59477	54477		6472	11,200	3620	3620	
								8020	8020	

BUDGET ESTIMATE—FOREST DEPARTMENT—GOVERNMENT OF MADRAS—FROM 1ST APRIL 1870 TO 31ST MARCH 1871.

COIMBATORE.

	Mudumalai Forest.					Seegur and Suttiamungalum Forest.					Collegal Forest.					Bhowani Forest.				
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.																				
I—	59464	63,000	60000	60000		21600	20,000	20,000	18000		14026	12,500	12,500	11000		12000	13,000	13000	11000	
II—	18	.....				1302	.....		2000			.....				355	.....		2000	
III—		.....					.....					.....					.....			
IV—		.....				455	.....				975	.....		1000		264	.....			
V—		.....					.....					.....					.....			
VI—		.....					.....					.....					.....			
VII—		.....				2	.....				192	.....		300		32	.....			
VIII—		.....					.....					.....					.....			
IX—	529	.....					.....				146	.....		200			.....			
	60014	63,000	60000	60000	✓	23359	20,000	20000	20000	✓	15339	12,500	12500	12500	✓	15856	13,000	13000	13000	✓
EXPENDITURE. A.																				
I—	28366	13,000	13000	13000		7518	6,000	6000	6000		4000	2,600	2600	3000		4500	3,000	3000	3000	
II—		2,000	2000	2000			500	500	500			500	500	300			300	200	300	
III—		9,000	9000	9000			300	500	500			700	700	300			.....	100	300	
IV—		3,100	3600	3600			.....					.....					.....			
V—		.....					.....					.....					.....			
VI—		900	900	900			1,000	1000	1000			500	600	1200			400	500	1200	
VII—		500					200					100	"	"			100			
VIII—		.....					.....					.....					.....			
IX—		.....					.....					.....					.....			
X—		1,500	1500	1500			.....					600	600	200			200	200	200	
	28366	30,000	30000	30000	✓	7518	8,000	8000	8000	✓	4000	5,000	5000	5000	✓	4500	4,000	4000	5000	✓
B.																				
I—		.....					.....					.....					.....			
2—	12491	4,800	4800	4800			.....					.....					.....			
		7,691	7691	7692			.....					.....					.....			
I 3— a—	1336	1,368	1368	1368		130	156	156	156			.....					.....			
I 3— b—		.....					.....					.....					.....			
4—	2284	2,448	2352	2448		1415	1,440	1440	1440			.....					.....			
5—		.....					.....				1944	1,944	1944	1944	✓	1944	1,944	1944	1944	✓
6—		.....					.....					.....					.....			
7—		.....		16,308			.....		1506			.....					.....			
II 1—	1080	1,080	1080	1080			.....					.....					.....			
II 2—	116	120	120	120		261	276	228	276			.....					.....			
II 3—	160	323	313	393		20	123	120	128		456	456	456	456	✓	456	456	456	456	
III 4—		17,800	17424	17901	✓	1826	2,000	1944	2000	✓		100	100	100		35	125	100	100	
	17464	47,800	44424	44901	✓	9344	10,000	8044	10000	✓	2400	2,500	2500	2500	✓	2435	2,525	2500	2500	✓
	45833										64000	7,500	4500	4500	✓	6935	6,525	6500	4500	

COIMBATORE.

NEILGHERRY SHOLAS.

	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.					
I—		5,000			
II—	2618	.....			
III—		.....			
IV—	1063	.....			
V—		.....			
VI—		.....			
VII—		.....			
VIII—		.....			
IX—		.....			
	3681	5,000	~	~	✓
EXPENDITURE. A. I—	1952	.....			
II—		.....			
III—		.....			
IV—		.....			
V—		.....			
VI—		2,400			
VII—		100			
VIII—		.....			
IX—		.....			
X—		.....			
	1952	2,500	~	~	✓
B. I 1—		.....			
2—		.....			
I 3— a—		.....			
3— b—	2540	1,824			
4—		.....			
5—		.....			
6—		.....			
7—		.....			
II 1—		.....			
II 2—	816	360			
II 3—					
III 4—	46	106			
	3402	2,296	~	~	✓
	5354	4,796	~	~	✓

AUSTRALIAN PLANTATIONS.

	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government,
RECEIPTS.					
I—		1,000			
II—	88	.....			
III—		.....			
IV—		.....			
V—		.....			
VI—		.....			
VII—	20	.....			
VIII—		.....			
IX—		.....			
	108	1,000	~	~	✓
EXPENDITURE. A. I—	1465	.....			
II—		.....			
III—		.....			
IV—		.....			
V—		.....			
VI—		1,400			
VII—		100			
VIII—		.....			
IX—		.....			
X—		.....			
	1465	1,500	~	~	✓
B. I 1—		.....			
2—		.....			
I 3— a—		.....			
3— b—		1,236			
4—		.....			
5—		.....			
6—		.....			
7—		.....			
II 1—		.....			
II 2—		.....			
II 3—		180			
III 4—		54			
		1,870	~	~	✓
	1465	2,970	~	~	✓

SALEM.

SALEM FOREST.

	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.					
I—	16364	25,000	24000	25000	
II—	33524	20,000	16000	18000	
III—		.....			
IV—		.....			
V—		.....			
VI—	16846	15,000	12000	12000	
VII—		.....			
VIII—		.....			
IX—	86	.....			
	66820	60,000	55000	55000	✓
EXPENDITURE. A. I—	14010	8,000	8000	8000	
II—		1,000	1000	2000	
III—		.....	1000	1500	
IV—		.....			
V—		.....			
VI—		1,000	1000	2000	
VII—		200	500	500	
VIII—		1,000	1500	2000	
IX—		.....			
X—		10,000	1000	2000	
	14010	21,200	14000	18000	✓
B. 1—		.....			
2—	7000	8,400	6900	6000	✓
	1920	.....	2880		
		.....			
a—		.....			
b—	1105	648	1572	1356	✓
4—	2519	4,992	3264	5160	✓
5—		.....			
6—	47	.....			
7—		.....		12,516	
I—		.....			
II 2—	540	.....	800	660	✓
II 3—		540	200	660	
III 4—	334	350	400	500	✓
	13465	14,930	15156	13676	✓
	24475	36,130	29456	31676	✓

SOUTH CANARA.

SOUTH CANARA FOREST.

	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.					
I—	9654	17,000	12000	12000	
II—	9823	8,000	8000	8000	
III—		.....			
IV—	10116	7,000	8000	8000	
V—		.....			
VI—	80	.....	800	800	
VII—	96	1,000	200	200	
VIII—	295	.....			
IX—		1,000	1000	1000	
	30064	34,000	30000	30000	✓
EXPENDITURE. A. I—	13801	9,900	9500	9500	
II—		500	500	500	
III—		2,000	1390	1390	
IV—		.....			
V—		.....	50	50	
VI—		1,000	2000	2000	
VII—		200	200	200	
VIII—		.....			
IX—		.....			
X—		400	360	360	
	13801	14,000	14000	14000	✓
B. 1—		.....			
2—	3140	3,600	2400	2400	
		.....			
		.....			
a—		.....			
b—	420	492	3	3	
4—	3642	4,842	4962	4962	
5—		.....			
6—		.....			
7—		.....		1734	
I—		.....			
II 2—	544	720	720	720	
II 3—	540	720	720	1440	
III 4—	71	306	300	400	
	8417	10,680	9474	9534	✓
	22218	24,680	23474	23534	✓

BUDGET ESTIMATE—FOREST DEPARTMENT—GOVERNMENT OF MADRAS—FROM 1ST APRIL 1870 TO 31ST MARCH 1871.

	MALABAR.									
	Wynad Forest.					Nellumbur and Calicut Plantations.				
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.										
I—	374	15,000	15000	15000		9498	15,000	13500	13500	
II—		.....				662	500	500	500	
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—		.....					.....			
VII—		.....					.....			
VIII—		.....					.....			
IX—	/	.....				5746	9,500	6000	6000	
	381	15,000	15,000	15000	✓	15906	25,000	20000	20000	✓
EXPENDITURE. A.										
I—	4900	2,500	5500	5500		10354	5,000	5000	3000	
II—		.....					.....			
III—		.....					1,000	1000		
IV—		.....					2,000	2000	2000	
V—		.....					.....			
VI—		400	400	400			4,000	4000	8000	
VII—		100	100	100			1,000	1000		
VIII—		.....					1,000	1000		
IX—		.....					.....			
X—		.....					1,300	1300	1000	3600
	4900	3,000	6000	6000	✓	10354	15,300	15300	14000	✓
B.										
1 2—	2164	.....	2400	2400		2619	 2,400	2400	2400	
3— a		.....					.....			
3— b		1,800					.....			
4—	3653	272	924	804		2261	2,364	2760	2760	
5—		1,272	840	1740		933	1,896	936	936	
6—		.....					.....			
7—		.....		4944			.....		6,660	
II 1—		.....					.....			
II 2—	72	360	720	720		986	720	720	720	
II 3—	16	120					.....			
III 4—	102	161	200	219		95	300	300	300	
	6004	4,985	5084	5844	✓	7249	7,680	7680	7680	✓
	10904	7,985	11084	11844	✓	17603	22,980	22980	21680	✓

	TINNEVELLY.									
	Alvarcurchy Paupanasum and Kalacad Forests, &c.									
	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government.
RECEIPTS.										
I—		2,000	2000	5000			.....			
II—	13453	15,500	15500	12,000			.....			
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—	11	.....					.....			
VII—	244	.....		3,000			.....			
VIII—		.....					.....			
IX—		.....	✓	✓	✓		.....			
	13708	17,500	14500	20000			.....			
EXPENDITURE. A.				19000						
I—		3,700	3700	3000			.....			
II—		.....		1000			.....			
III—		.....					.....			
IV—		.....					.....			
V—		.....					.....			
VI—		.....		2,000			.....			
VII—		300	300				.....			
VIII—		.....					.....			
IX—		.....					.....			
X—		.....		1,000			.....			
		4,000	4000	7,000	✓		.....			
B.										
1—		.....					.....			
2—	4200	8,400	8400	8400			.....			
3— a		.....					.....			
3— b		.....					.....			
4—	2564	4,320	3948	3948			.....			
5—		.....					.....			
6—		.....					.....			
7—		.....					.....			
				12,348						
II 1—		.....					.....			
II 2—		.....					.....			
II 3—	140	360	360	360			.....			
III 4—	64	350	200	392			.....			
	7001	13,430	12908	13100	✓		.....			
	7001	17,430	16908	20100	✓		.....			

	Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71	Amendments proposed by the Local Government.	TOTAL. Actual 1868-69.	Budget Estimate 1869-70.	Regular Estimate 1869-70.	Budget Estimate 1870-71.	Amendments proposed by the Local Government,
RECEIPTS.										
I.—Sale of Timber brought to Depôts by Government Agency										
II.— Do. Timber, Firewood, Bamboos, and Charcoal removed from the Forests by purchasers, including Seignorage		.....				181043	3,12,600	294400	292750	
III.—Duty on Foreign Timber		.....				165582	1,21,400	119350	120000	
IV.—Permit Fees and rent of Jungles, and Privileges		.....				"	.....		"	
V.—Grazing dues		.....				12876	7,000	8000	9000	
VI.—Sale of Fruits, Babool pods, and other minor forest produce		.....				"	.....	"	"	
VII.—Sale of Confiscated drift and waif Timber		...				17640	15,500	13400	15400	
VIII.—Fines and Forfeitures		.....				3311	3,000	2250	5550	
IX.—Miscellaneous Receipts		.....				295	.....	"	"	
		.....				10432	10,500	7100	7300	
Total, Receipts		.....				391149	4,70,000	450000	~~400000~~	
									450000	
EXPENDITURE.									450000	
A.—CONSERVANCY AND WORKING.										
I.—Timber expenses for felling, cutting, clearing, sawing, and the transport of Timber, by land or water to Depôts, also Charges for storing, securing watching, piling, and arrangements for selling Timber		.....				132693	1,03,400	104100	107800	
II.—Purchase of Elephants, Cattle and Dead stock, Tools and Plant		.....				"	7,700	6800	9500	
III.—Feed and keep of Elephants and Cattle		.....				"	21,500	21490	19290	
IV.—Rent of leased Forests and Seignorage paid for Timber felled in leased Forests, shares of villagers and others in the Revenue of Forests		.....				"	5,100	5500	5500	
V.—Charges connected with the collection of Revenue on Grass, Fruits, and Miscellaneous Forests produce		.....				"	.....	50	50	
VI.—Plantations		.....				"	21,300	18000	30100	
VII.—Forest work, viz. cutting of creepers, protection of forests or trees against fire, and other work for the conservancy and improvement of the Forest charges for selecting, working and girdling of the trees to be felled		.....				"	4,900	3850	2250	
VIII.—Forest Survey, Topographical and valuation Survey, to ascertain the contents of Forests and annual rates of Timber production		.....				"	2,000	2500	2000	
IX.—Experiments to test the value of Timber of different kinds		.....				"	50	"	50	
X.—Communications, buildings and minor works, fences, boundary pillars and posts, and boundary division paths		.....				"	27,550	13310	9250	
Total of Conservancy and Working		.....				132693	1,93,500	140000	180000	
B.—ESTABLISHMENT.										
I.—SALARIES.										
1. Pay of Conservator		.....				"	12,000	6000		
2. Pay of Executive Officers		.....				57953	46,850	52000	52,800	
Military Pay of do		.....				2280	12,181	10491		
Pay of the Overseer in charge		.....				"	3,000	1500	1500	
3. Office Establishment.		.....				7878	3,300	3240		
a. Direction		.....				7387	6			
b. Executive		.....				33610	37,986			
4. Forest Conservancy Establishment		.....				6576	13,212			
5. Timber Depôts and Work Establishment		.....				2551	.....			
6. Deputation and Special Allowances		.....				245	480	339	1,34,791	
7. Dressers—Pay and Batta		.....				118480	135549	127500		
II.—TRAVELLING ALLOWANCES, INCLUDING BATTA, TRAVELLING EXPENSES, AND TENTAGE.										
1. Conservator		.....				4006	3,600	3940		
2. Executive Officers		.....				4402	6,120	4580		
3. Subordinate Establishment		.....				3728	5,228	6541	15726	
III.—CONTINGENCIES.						12136	2,948	4220		
4. Sundries including Official Postage		.....				7163	7,003	10500	10500	15750
Total of Establishment and Contingencies		.....				134749	1,57,500	153500	165000	351000
Total Expenditure		.....				267442	3,51,000	331		

Camp Ammavallay
7th September 1869.

Major
Conservator of Forests

III

Annual Cash
Account 1868-69

4

Nov. 29/70.

From 19th Feby/70 to 1185

Annual Abstract of Receipts
& Disbursements of Public Works
& Buildings in the Kandesh
Division.

Dated 13th Sept. 1869.

Dated 4th Nov. 1870.

7

Nos 163/69

1

9850

III.

Forest Department

Annual Abstract Account of the Cash transactions of the Forest Department in the Madras Presidency for 1868-69.

Year	Heads of Account.			Year	Heads of Account.			Remarks
1868-69	To balance of Cash and Outstanding Advances brought forward from last year's Account		20,957 13 1	1868-69	By Expenditure of the Dept.t as follows.			The net Amount of Rupees 131,919-14-0 entered in the first item on the credit side, was passed by the Officer in charge of the Central Office in adjustment of the Advances of Rupees 132,693 drawn from the several Treasuries under Forest Conservancy for Forest operations during the past official year, whilst the latter Amount has been treated as final Expenditure and entered as actuals in the Budget Estimate for 1870-71 in accordance with the directions contained in the Accountant General's letter dated 28th January 1868. No 341, and approved by Government in G.O dated 17th February 1868 No 442.
	Revenue received in Cash and Vouchers for Timber supplied to P.D. Dept.t		391,180 4 3		Forest Operations	131,919 14 0		
	Remittances from States Treasuries	270,471 9 8	661,651 13 11		Establishment	130,615 11 0		
					Office Contingencies	1,163 5 3	263,698 14 3	
					Remittances to States Treasuries	292,970 4 10		
					Value of Timber supplied to P.D.	95,209 15 5	391,180 4 3	
					Actual Cash and Outstanding Advances remaining on 31st March 1869		21,760 8 11	
	Total Rupees		682,639 11 5		Total Rupees		682,639 11 5	

Noticed in Para 3 Budget Orders.

Camp. Anamiedy
7th September 1869.

R. Maddox Major
Offg. Govt. of Coorg

Report on contemplated ch=
=anges in the Official year 1870-71.

1. Central Office. The pay of the Conservator has been entered in full for the official year 1870-71, but the Regular Estimate has been reduced to Rs 6,000 in consequence of the officiating Conservator having drawn only a Deputation allowance of Rs 200 per mensem in addition to the salary of his substantive appointment during the absence on furlough of Dr Colghoun whose resignation of the office of Conservator has been accepted by Govern=
=ment in G.O. dated 5th August 1869 No 2246.

2. Pending confirmation of the 1st Class Deputy in the office of Conservator of Forests, and of the proposed re-organization of this Department, the consolidated pay and travelling allowance of that Officer and the increased pay of the Assistant Conservator in charge of the Central Office who was promoted to 2nd Class Assistant, have been included in item "Pay of Executive Officers" as well as the pay

G.O. 9th August 1869 No 2333.

Fort St George Gazette of 9th April 1869 page 511.

pay provided for a trained Assistant × Para 29 Gen'l Rs. and Rs 22 Leg Dt 22 Leg.
who is expected to reach India from Europe by the end of this year. In the Regular Estimate however are entered only the consolidated pay of the 1st × G.O. of 22d May 68 No. 1437.
Class Travelling Deputy in lieu of Staff and Military Allowances and the pay of the 2nd Class Assistant Conservator in charge of Central Office.

3. The sum of Rs. 3,360 entered both in the Regular and Budget Estimates for 1870-71 includes the additional expenditure × authorized for the two persons employed × Gen'l of India No. 1611 dated 8th March 68 No. 1611.
by the Conservator on his Travelling Office Establishments.

There is a saving of Rs. 900 in the item of Travelling Allowances under Executive Officers, that amount not having been drawn by the 1st Class Deputy while employed as Officiating Conservator during the last 6 months.

Under item "Office Contingencies"

4. a sum of Rs. 4,000 is entered both in the Regular and Budget Estimates, in excess of the grant for

× Printing charges of Flora Sylvatica — 2,000
Postage — 2,000
4,100

for the current year. This sum is required to meet the Printing charges for the publication of Flora Sylvatica as well as Postal charges. A sum of Rs. 1960 was sanctioned in the Budget Estimate for this year on account of Official Postage in accordance with the Resolution of the Govt of India dated 22nd April 1868 No. 61 Public Works Department communicated in G.O. 6 May 68 No. 1286, whilst Rs. 4421-9- (included in the actuals of Office Contingencies) were debited in the accounts for last year under instructions from the Acc't Genl. Hence the additional outlay of Rs. 2,000 for Official Postage both in the Regular and Budget Estimates.

× Letter 8th May No. 814 & 22nd June 1869 No. 1961.

Golconda — Revenue.

× 6. The income in the Regular and Budget Estimates for 1870-71 has been entered at Rs. 500 in lieu of Rs. 1000 estimated for this year, owing to the small revenue actually realized from this Forest. The subject was brought to the notice of Govt with a recommendation that the Forest should be entirely transferred to the Jungle Conservancy Fund, by which it could be well maintained

× Letter 8th June 68 No. 1451 recorded in G.O. 22 idem No. 1769.

further

without any additional Expense to the State; but the Govt. declined to accede to this proposal.

Expenditure.

7th The Expenditure under "A Conservancy & working" and "B. Establishment" has for the foregoing reasons been reduced respectively to Rs. 200 & 270.

Establishment.

8th The cost of the Establishment will be under the immediate control of the Collector of the District though under the general supervision of the Conservator of Forests is therefore borne by the Provincial Funds. A Sub-Overseer has however as recommended by the Conservator been placed in charge of the Range on Rs. 30 & 10 in lieu of Rs. 45 drawn by the late 3rd Class Overseer.

Cuddapah & Bellary.

9th Revenue Item No. I- "Sale of Timber brought to Depôt" the Regular & Budget Estimates have been entered at Rs. 30,000 in consequence of the Departmental collection and sale of Reduced Stumps since the abolition of the grant of permits for the removal of this valuable

+ Govt. Proc. 19th June 1867 No. 1467 & 11th June 1867 No. 1653.

32

valuable wood under the License System.

Expenditure.

10th Of Rs. 14,000 estimated in excess of the actuals under "Conservancy and working" Rs. 10,000 in item No. I and Rs. 3,000 in item No. VII are provisions made respectively for the collection of Redwood Stumps in the Coduar Depôt and for the formation of fuel plantations along the North West Line between Cuddapah and Nellore in the Bellary District. Hence the increase both in the Regular and Budget Estimates over the actuals of the past year.

Establishment.

11th In the Regular and Budget Estimates the expenditure sanctioned for the Establishment of Cuddapah and Bellary plantations is included in that of the Establishment of Cuddapah Proper.

+ In Govt. Proc. 23rd January 1869 No. 248 & 4th May 1869. No. 1219.

Kurnool.

12th Revenue- A sum of Rs. 3,900 was realized by sale of Telegraph posts to the Irrigation and Canal Company, hence there is an increase

increase in the actuals over the estimated amount of income for 1870/71.

Expenditure

13th. The reduced figures in the regular and Budget Estimates under "Conservancy and Working" are due to the completion of the Mutticondah Road works and the transfer of elephants whose feed and keep were found to be very expensive to the State, to the Anamallai Forests where they can be far more beneficially employed.

North Arcot.

14th. Revenue. The Revenue in the Regular and Budget Estimates is based upon the actuals of the past year.

Establishment

15th. A sum of Rs 27 sanctioned in G.O. dt 25th January 69, No 213 for the Goodiathum Forests which has not yet been handed over to this Department by the Collector of North Arcot, is included under the head of Establishment in the Regular and Budget Estimates.

South Arcot

16th. Establishment. The full amount of the revised Establishment sanctioned in G.O. 3d May 1869 No 1207 has been entered both in the Regular and the Budget Estimates under item No 4 of B. Establishment.

Madura.

17 The Revenue and Expenditure under "Conservancy and Working" have been respectively Estimated at Rs 15,000 and 10,000. The former it is expected, will be fully realized from sales of Timber to Merchants and Public Departments, whilst the latter is required to meet increased felling and storing of timber in the Cumbum Depot as well as for plantations and improvement during 1870-71.

Anamallais

18. Revenue. A large quantity of Timber to the value of Rs 44,731-6-1, supplied to Public Departments during the past year has not been adjusted in the Accounts in consequence of the requisite Vouchers not having been furnished till after the end of the year

Sigiri, Sattecamangalum, Bowany and Collegal

23. Lieut.-Colonel Morgan estimated the Revenue from these Ranges at Rs. 36,000, or nearly Rs. 10,354 less than the actuals. The former amount has therefore been raised to Rs. 45,500 in accordance with the Estimates sanctioned for this year.

* Sigiri and Sattecamangalum — 16,000
Collegal — 10,000
Bowany — 10,000
36,000

Establishment

26. The Government authorized the employment of 3 Duffadars on Rs. 15 each in lieu of Head Peons for each of these Ranges, to superintend planting operations, the charge not being attended with any additional expense as shewn in the scale accompanying Budget Estimate. G.O. 24th June/69 No. 795.

Neilgherry & Australian Plantations

27. The Establishment for these two Ranges having been transferred to the Commissioner of the Neilgherries agreeable to para 14 G.O. 11th March 1869, No. 358 this cost does not appear in the Budget Estimate. Vide my letter No. 1423, dated 25th May 1869, seconded in G.O. 23rd June 1869, No. 1781.

Salem

Salem — Revenue.

28. The Revenue in the Regular and Budget Estimate has been entered at Rs. 35,000 which is Rs. 11,000 less than the amount actually realized last year by sales of various Forest Products such as Tamarind and Valam bark, the collection of which by hill tribes has recently been strictly forbidden by Government. Hence the present reduced Estimate. G.O. 9th April/69 No. 970.

Expenditure

29. The Regular Estimate has been reduced to Rs. 14,000 as Rs. 7,200 will be saved out of the Rs. 10,000 sanctioned in item No. X under Communications — Forest Road works being contemplated this year, whilst the Budget Estimate for 1870-71 has been entered at Rs. 18,000, which, besides ordinary forest operations provides also for the cost of demarcations, establishment and contingencies; such as cutting boundary stones, and erecting stone walls round the fuel reserves, as the olden fencing used hitherto has been found insufficient to

Keep

keep out the wild pigs which cause much injury to the growths of Acacias in the reserved tracts.

Establishment.

30. On the promotion of Captain Goelis to the grade of 2nd Class Deputy, Mr Cadell was advanced to 3rd Class Deputy, and placed in charge of this Range. Lieut. Walker the 2nd Class Deputy having been on the death of Lieut. Fullerton, transferred to the United Ranges of Madura and Timevelly.

The Estimate in Item A 2 of Salaries under B Establishment has accordingly been reduced to Rs 6000.

31. The figures in the Estimate embrace the revised Establishment authorized in G.O. 3rd May 1869 No 1201.

South Canara.

32. The Revenue and Expenditure under Conservancy and Working have been based upon the actuals given in the Budget Estimate under submission.

Establishment

Establishment.

33. A 3rd Class Assistant has been placed in charge of this Range, in lieu of a 2nd Class one to which grade the Assistant in charge of the Central Office was promoted, as stated in para 2 of this Report on the appointment of Mr Cadell as 3rd Deputy.

Wynad.

34. Revenue. A sum of Rs 33,100 was realized by Mr Turnbull, late Overseer in charge of this Forest, by sale of Timber from the Sort Depot, but embezzled by him as reported in my letter No 1175, dated 24th February 1869, recorded in G.O. dated 6th March 1869, No 594. Hence a small amount of Rs 381 actually remitted to the Treasury during last year by the late Lieut. Fullerton, when in charge of this Range, is shown as the actuals of last year.

Establishment.

35. A 3rd Class Assistant on Rs 200 with Rs 60 as Travelling Allowance, in lieu of a 1st Class Overseer on Rs 180 per mensem, authorized by the Government of India, Public Works Dept. dated 25th February 1869, No 91E communicated in G.O 23rd March 1869, No 804, has been placed in charge of this Range.

Nellambur.

Nellamboor.

36— Revenue. The Regular and Budget Estimates have been given at Rs 20,000. Although the actuals do not come up to this figure yet there is every probability of the amount being realized by sales of the large stock of timber stored in the Depot.

Expenditure.

37. The sanctioned amount of expenditure under Conservancy and working has been left in the Regular Estimate unobstructed (although the actuals do not amount to more than Rs 10,354) in consequence of Rs 4303-10-9 having been paid in the early part of this year on account of Puttacannee or stump fee due for the past 8 years to certain proprietors of the leased Forest tracts now under Plantation.

38— Mr Ferguson estimated his expenditure at Rs 18,000 but this seemed to me rather too high, and has been reduced to Rs 14,000, which provides as well for the usual felling of Timber, as for planting operations, which latter are to be conducted on an extensive scale under his supervision during 1870-71.

Tinnevelly

Tinnevelly.—

39. Revenue & Expenditure. A sum of at least Rs 5,000 is expected to be realized by sales of Timber from the Depot, hence the Budget Estimate has been raised to Rs 20,000; Rs 3,000 being provided for felling operations to be undertaken experimentally by the Deputy Conservator of this Forest during 1870-71.

Camp Avanmallay 17th September 1869

(Signed) R. H. Beddome, Major
Offg Conr of Forests

True Copy

H. Sewell

Offg Under Secy to Govt

II

Report on Contem
plated operations
1870-71

3
Rec: 29/1/70

Fwd: 19-Feby/70 to L:185

No. 94—10-5-69—500.

47

BUDGET & RESOURCE DEPARTMENT.

No. 4039

Fort Saint George,
Accountant General's Office,
25 September 1869

Offr

FROM THE ACCOUNTANT GENERAL,
TO THE GOVERNMENT OF MADRAS,

TO THE Secretary to the Government of India
Public Works Depart.

SIR,

With reference to your Circular No. 8 dated 26th May 1869 I have the honor to forward herewith the Budget Estimate of the Forest Department of this Presidency for 1870-71 accompanied by the documents noted in the margin.

The documents marked A and B are those referred to in the Government Order No. 2656 dated the 21st instant.

I have the honorable,
Sir,
Your Obedient Servant,

Accountant Gen.

I Scale of Establishments.
II Report on the Contemplated operations of 1870/71.
III Abstract of the Cash transactions in 1868-69.
IV Administration report for 1868-69.
V Govt Order No. 2656 dated 21st Sept. 1869.
VI Explanatory Remarks of the Account Genl.

Compd

N W P. 1869 Dept
Revenue
Investo

Govt of Madras.
No 4039

dy 25th Sept
7th Oct

Rec 29/11/69

Proceedings Fort St. George No 185.

Read the N.W.P. Govt No 8 F.F. 1869.

Forwarding Forest Budget
Estimate for 1870/71, and
Progress Report for 1868/69.

		Brought forward		10,961	6 6
1	Sub Overseer	@ 30	- -	✓	
1	Assistant Sub Overseer	@ 20	- -	✓	
1	Office Jemadar	@ 20	- -	✓	
1	Duffadar	@ 12	- -	✓	
10	Peons at 7 Rs each	@ 70	- -	✓	
		Total Wynad	@ 472	- -	
		Malabar			
1	3d Class Asst Conr	@ 200	- -	✓	
	Do travelling Allowance	@ 60	- -	✓	
1	2nd Class Overseer	@ 80	- -	✓	
1	Writer	@ 40	- -	✓	
1	Head Jemadar	@ 12	- -	✓	
1	Asst Do	@ 10	- -	✓	
1	Head Duffadar	@ 20	- -	✓	
3	Asst Do at 12½ 10 & 9 Rs each	@ 31	- -	✓	
6	Peons at 7 Rs each	@ 42	- -	✓	
7	Peons at 6 Rs each	@ 42	- -	✓	
			@ 537	- -	
	Particular Timber Depot				
1	Writer	@ 60	- -	✓	
3	Peons at 6 Rs each	@ 18	- -	✓	
			@ 78	- -	
		Total Malabar Rupees		615	- -
		Total Rupees.		12048	6 6

Camp: Avanakye.
7th September 1869

A. D. Addams Major
Offg Conr of Stores

	Brought forward		8182			
1	Coorniah	20			××× Reported in June/69 Sth. no 2 b E Jo. b.	
	Do travelling allowance	8				
3	Peons at 5 Rs each					
1	Do at 6					
		200				
	Collegab					
1	Overseer	100				
1	Do travelling allowance	20				
1	Jemmadah	20			×××	Do
	Do travelling allowance	8				
3	Peons at 5 Rs each					
1	Do at 6					
		200				
	Total Mudamally Rupees	2014	14	6		
	South Canara					
1	3d Class Apt Coiler	20				Transfer to Canara Coiler Estt
	Do travelling allowance	60				
4	Coilers at 60 Rs each	240				
	Do travelling allowance at 15 Rs	60				
1	Writer	25				
4	Coorniahs at 10 Rs each	40				
3	Duffadars at 10½ Rs each	31	8			
16	Peons at 6 Rs each	108				
	Total South Canara	764	8			
	Wynad					
1	3d Class Apt Coiler					Transfer to Estt
	Do travelling allowance					
1	Head writer	60				
	Carried forward	1096	6	6		

	Brought forward		8182		
5	Mudumallay				
1	Deputy Conicopoly 1st Class	400			√
	Subsidiary Pay of Do	640	14 6		√
	Do travelling allowance	90			√
1	4th Class Overseer	50			√
	Do travelling allowance	10			√
1	Head Accountant	70			√
1	Deputy Do	30			√
1	Timber yard writer	14			√
1	Supt of Carts	24			√
1	Jemadar	15			√
1	Supt of Coorabers	15			√
1	Supt of Sawyers	8			√
1	Supt of Elephants	8			√
1	Do of Buffaloes	7			√
1	Duffadar	15			√
2	Peons at 6 Rs each	18			√
1	Head Peon	9			√
5	Peons at 5 Rs each	35			√
		1468	14 6		
1	Sugur Pattiauyalaw				
1	Overseer	50			√
	Do travelling allowance	15			√
1	Cooley	3			√
		7			√
1	Head Peon	6			√
1	Jemadar	20			√
	Do travelling allowance	8			√
4	Peons at 5 Rs each	5			√
		156			
2	Pychauvaul				
1	Overseer	100			√
1	Do travelling allowance	20			√
	Carried forward	8182			

Q. Ordered as proposed 16 Jany 1795

X X Reported in Revenue Letter 27th - No 21 1/2 of

	Brought forward	6760		
	Anamallay			
1	2nd Class Deputy Conservator	100		Promoted to the 2nd Class Grade vide Fort St. George Gazette dated 16th March 1869. G.O. dated 15th March 1869 No 691 & Letter from Supdt. entering for 11 pr Govt to Supdt for Select
1	1st Class Overseer	100		
	Do			
1	Assistant Overseer	50		
	Do Travelling allowance	15		
1	Head Writer	30		
1	Deputy Do	20		
1	Timber Do	20		
1	Floater	25		
1	Elephant Bakeman	25		
1	Peonmaistah	10		
1	Duffadar	16		
15	Peons at 6 Rs each	90		
2	Radeirs at 3 Rs each	6		
		1127		
		907		
	Belcamputty & Sholakarry			
1	3rd Class Overseer	60		
	Do Travelling allowance	15		
1	Peonmaistah	10		
1	Duffadar	10		
5	Peons at 6 Rs each	30		
		125		
	Chennat Nair & Wabier			
1	2nd Class Overseer	80		
				G.O. dated 15th March 1869 No 691 & Letter from Supdt. entering for 11 pr Govt to Supdt for Select
1	Peonmaistah	10		
1	Duffadar	10		
5	Peons at 6 Rs each	30		
		160		
		120		
	Total Anamallay Cargo	1422		
	Carried forward	8182		

	Brought forward	4259	
			The repairs above applied to Nos 1 to 10 allowances also
			J. O. dated 3d May 1869 No 1207
	Total Salem Range	1202	
	Madura		
1	3d Class Overseer	60	
1	Do Travelling	15	
1	Writer	10	J. O. dated 16th March 1869 No 699 - Reported 11th May J. in 8th for March/69 - no vouchers
3	Duffadars at 15 Rs each	45	
15	Peons at 6 Rs each	90	
		260	
	Tinnevelly		
1	2nd Class Deputy Collector	100	
1	2nd Class Overseer	80	
1	Do Travelling allowance	30	
	Pauparapans & Asswarcoly		
12	Peons at 6 Rs each		Reported in March/69 5th - no vouchers
	Calcad		J. O. dated 16th March 1869 No 699
5	Peons at 6 Rs each		Reported in March/69 5th - no vouchers
	Wartnapt Vapadanayallur		
12	Peons at 6 Rs each		Do
	Total Tinnevelly Range	1309	
	Carried forward	6760	

	Brought forward	3639	- -	
	Kurnool			
1	3d Class Assistant Surgeon	200	- -	√
	Do travelling allowance	60	- -	√
1	Overseer	60	- -	√
	Do travelling allowance	15	- -	√
1	Warder	25	- -	√
1	Head Gumaglah	25	- -	√
1	Assistant Do	12	- -	√
3	Duffadars at 15 Rs each	46	- -	√
28	Peons at 6 Rs each	168	- -	√
	Total Kurnool Range	610	- -	
	Salem			
1	3d Class Deputy Surgeon	500	- -	√
1	Head Overseer	100	- -	√
	Do travelling allowance	30	- -	√
1	Assistant Overseer	60	- -	√
	Do travelling allowance	15	- -	√
1	4th Class Overseer	30	- -	√
	Do travelling allowance	10	- -	√
1	Head Clerk	30	- -	√

Brought forward 2664 - -

Cuddapah

1	3rd Class Assistant Trainer	200	
	Do travelling allowance	60	
1	Overseer	80	
	Do. travelling allowance	15	
1	Writer	25	
3	Duffadars at 15 Rs each	45	
19	Peons at 6 Rs each	114	
		539	

Field Reserve in Cuddapah

Total Cuddapah Range. 780 - -

G. O No 240 dated 28th January 1869 } Reserves included
G.O. No 1219 dated 4th May 1869. } per Brevet Regt not
sanctioned.

Not Entered

North Arcot

1	Overseer	60	
	Do travelling allowance	15	
1	Duffadar	20	
1	Do	15	
2	Pycrists at 8 Rs each	16	
17	Peons at 6 Rs each	102	
		228	

Not Entered

Total North Arcot Range 255 - -

G.O. No 213 dated 25th January 1869 - The Resolution of the Court for the Std of G.O. 10 June 1863 No 1847 respecting the establishment of Pioneers & Sappers & Miners & the disposal of the Officers and Men on the Field Staff & Regimental Establishments of the Army

Carried forward 3639 - -

Last Sanctioned Scale of Establishment of the Forest Department of the Madras Presidency.

Number	Particulars	Amount	Total	Remarks
	Central Office			
1	Conservator of Forests	1000		
1	1st class Deputy Do	800		Promoted to 2nd class Assistant Conservator Fort St. George Gazette of 13th April 1869 p. 544.
1	2nd class Assistant Do	300*		
1	Head Clerk	75		
1	Accountant	50		
1	2nd Clerk	125		
2	Clerks at 10 Rs each	20		
1	Record Keeper	20		
1	Draughtsman	40		
1	Travelling Peon	8		
1	Do			G. O. dated 28th October 1868 No 2710
14	Peons at 7 Rs each	28		Posted in Salt for March Sig. No 1869 Ap. 1.
1	Sweeper	3		
	Total Central Office	2356 2378		
	Nilgiris & Wynaad			
1	Overseer			G. O. No 2533 dated 2nd October 1865
	Do travelling allowance			
1	Writer	20		Posted by Supt. Conservancy Office Nilgiris
1	Duffadar			3178
9	Peons at 6 Rs each	54		
	Total Nilgiris Forests	212		
	Coimbatore			
1	Sub Overseer			G. O. dated 19th January 1869 No 146
	Do travelling Allowance			G. O. dated 11th June 1869 No 1663
4	Peons at 6 Rs each	24		
	Total Coimbatore Forests	64		
	Carried forward	2654		

Forest Deptt 1869.

6

Rev: 3165/69

Last Sanctioned Scale of the Establishment of the Forest Department of the Madras Presidency

Dated 7th September 1869.
Received 3

2

Rev: 297/70

Prov: 19th Feby/70 Ln Ds 185

A

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Memo: Explanatory of the variation between the sanctioned cost of the Forest Establishment, and the provision made on that account in the Forest Budget Estimate for 1870-71.

	Rupees
Total Cost of Salary Establishment and Travelling Allowances of the Forest Department as per Tabular Statement sanctioned by the Government of India under date the 31st October 1868 No. 3296 Financial Department Rs. 11849-7-6 P month, or P Annum	142195
Add Increase consequent on subsequent revisions as reported from time to time in the monthly Statement of Special Charges, as follows:-	
Statement for September 1868 Annamalay Forest Rs. 20	
——do—— November —— Wynaad —— Rs. 80	
——do—— January 1869 Goriathum —— Rs. 27	
——do—— March —— Annamalay —— Rs. 30	
——do—— do —— Chenal Nair —— Rs. 30	
——do—— do —— Madura —— Rs. 10	
——do—— do —— Central Office —— Rs. 3	
——do—— May —— Salem Forest —— Rs. 83	
——do—— do —— South Arcot —— Rs. 19	
——do—— do —— Bellary —— Rs. 191	
——do—— August —— Golcondah —— Rs. 10	
Govt of India Order No. 3440 9 Nov. 1868 Goomsur —— Rs. 46	
Rs. 549	
Difference between the old rate of pay and Military Allowances, and the proposed Consolidated pay of a 1st Class Deputy Conservator of Forests for the Central Office 900 − 774 = Rs. 126	
Total Rupees 575 P month, or per Annum	6900
Carried forward	149095

B

Memorandum Explanatory of the variations in the figures of Actual Receipts and Charges of the Forest Department for 1868-69, as given in the Conservator's Budget Estimate for 1870-71, and those entered in the Accountant General's Books for the former year.

Receipts

As per Conservator's Returns —	Rs. 391179
As per Accountant General's Books —	" 391336
Increase Rupees	157

The above difference cannot be reconciled by this Office as the Annual Statement rendered to me by the Conservator of Forests exhibits a sum of Rs. 393580 or Rs. 2244 in excess of the amount shown in my books for 1868-69, being value of Timber stated to have been supplied to P. W. Deptt., but not yet admitted by the Controller of P. W. Accounts.

Comptt.

Charges

As per Conservator's Returns —	Rs. 270472
As per Accountant General's Books —	267745
Decrease Rupees	2727

The difference in the charges also cannot be reconciled, the Conservator of Forests having taken all advances as charges and omitted payments made on account of other Governments. The amount shown in his Annual Statement rendered to me is Rs. 269689-9-8.

True Copy
D Stevenson
Asstt Accountant General

for Signed R. W. Sedwick
Offg Accountant General

Nov-29-73

Thro-19th-Feby 1870 to L 183-

Proceedings of the Madras Govt

Read the following letter from the Offg Accountant General

Submitting Budget Estimate of the Forest Dept for the official year 1870-71 duly examined

(R.C. 16 Septr 69 No 180)

Order thereon 24 September 1869 No 2650

The Budget estimate of Receipts and Charges of the Forest Department for 1870/71 as annual submitted through the Accountant General.

2. The Acting Conservator estimates the Receipt of 1870/71 at Rupees 1,60,000 against Rupees 3,91,179 the actual of 1868/69 and Rupees 4,70,000 the estimate for 1869/70. Major Beddome explains

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explains that the actual Receipts
of 1868/69 would have been Rupees 4,44,709
but for the amount withheld from Contractors
Contractors for timber supplied to
certain Public Departments within
the year and the embezzlement
of Rupees 33,100 by Mr. Turnbull.

The Budget estimate for the
current year is not likely to
be fully realized the anticipated
decrease being Rupees 20,000.

Under these circumstances the
Government deem it proper to fix
the estimate for 1870/71 at Rs
4,51,000 a sum which has not
yet been reached during any of the last
5 years.

The estimate of charges
amounts to Rs 3,51,000 both under
"Conservancy and Working" and "Es-
tablishment" against Rupees 2,70,472
the actual of 1868/69 and Rs 3,51,000
the estimate for 1869/70 as shewn
below.

		Actual of 1868/69.	Estimate for 1869/70	Estimate for 1870/71
A.	Conservancy and Working	1,32,693	1,93,500	1,86,000
B.	Establishment	1,37,779	1,57,500	1,65,000
	Total	2,70,472	3,51,000	3,51,000

4. The estimate under "Conser-
vancy & working" is less than the esti-
mate for the current year by Rs 17,500
and under the explanation given by
the Officiating Conservator of Forests in his
report

report of contemplated operations in each range, it is passed.

5. The estimate for establishments including travelling charges amounts to Rs. 1,65,000 as against Rs. 1,31,779 the actual of 1868/69 and Rs. 1,57,500 the estimate for the current year. The memorandum A furnished by the Accountant General shows clearly that this estimate is correct and cannot bear any retrenchment. The provision of Rupees 3,000 for a Drawing Assistant from England will, however, be struck out, as the Government of India have informed this Government by letter dated 8th September 1869 No. 1108 F. that it will not be possible to allot such an Officer to the Presidency from the Instructs expected from Europe by the end of this year. The estimate for Contingencies is the only portion of this part of the Budget which requires notice. It amounts to Rupees 11,481 against Rupees 7,000 the estimate for the Current year. Major Beddome explains that the sum includes an additional provision of Rupees 4,000, Rupees 2,000 for printing "Flora Sylvatica" and another Rupees 2,000, for official postage, the sum debited under the latter head to the Forest Department the last year having been Rupees 4,121 against the Budget provision of

Rupees 1960. The estimate will therefore be allowed to stand. The grand total of the Budget now passed is Rupees 3,18,000 (as per abstract statement appended) against the estimated Revenue of Rupees 4,50,000. The net estimated Revenue will be Rupees 1,02,000.

Conservancy & working	1,86,000
Establishment	162,000
	3,48,000

6.- The Budget as now passed, will be forwarded to the Accountant General & the Executive Authorities for their information & the Govt. of India, after taking such abstracts of it as may be necessary for the Civil estimates.

(True Extract)

A. Malyell

Asst. Secy to Govt

To

The Accountant General.

with 4 Enclosures

Sd/- Bell

D A & A G. Office
Regd 24 9 1869
Ansd

Abstract Statement of the Forest Budget for 1870-71 as revised and passed by Government

	Central Office	Guzerat & Kurrachee	Colaba	Bandora	Malwan	Sawantwadi & Vellangoot	South Canara	Canara	Ambarnath	Kolaba & Bolampatty	Mudumalai	Segoor & Gudalur	Coll Regal	Bhawani	Nellyhoy Hills	Anaikatties & Palghat	Salem	Jam. & Canara	Wynaad	Vellumbcotta & Kollencode	Manantoddy, Pulpandy & Karkancode	Total
Receipts	"	6,000	500	50,000	35,000	12,000	4,000	12,000	89,000	6,000	60,000	20,000	12,500	13,000	"	"	58,000	30,000	16,000	20,000	10,000	450,000
Charges																						
Conservancy & Working	"	2,000	200	14,000	2,500	4,000	1,300	10,000	40,000	5,000	32,000	8,000	5,000	5,000	"	"	18,000	14,000	6,000	14,000	7,000	186,000
Establishment	40,640	2,750	870	9,160	7,820	3,160	1,498	3,200	14,477	3,620	17,901	2,000	2,500	2,500	"	"	13,576	9,574	5,874	7,680	3,100	112,000
Total	40,640	4,750	1,070	23,160	10,320	7,160	2,798	13,200	54,477	8,620	49,901	10,000	7,500	7,500	"	"	31,576	23,574	11,874	21,680	10,100	298,000
Net Revenue	40,640	1,250	570	26,840	24,680	4,840	1,202	1,200	25,523	2,620	12,099	10,000	5,000	5,500	"	"	23,324	6,426	3,126	1,650	1,100	152,000

Note - Red ink figures denote excess of expenditure over receipts.

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No. 1676. Office of Conservator of Forests.
Camp Annamallays 7th Sept. 69.

From
Major R. H. Beddome
Offg. Conservator of Forests
Madras

To,
R. B. Dalyell Esqr.
Offg. Secretary to Government
Revenue Department
Fort Saint George.

Sir,

I Copy of last sanctioned Scale of Establishment.

II. Report on the contemplated operations for the official year 1870-71.

III. Annual Abstract accounts of each transactions of the Forest Dept. for 1868-69.

IV Annual Administration Report for —do—.

In accordance with the Standing Order of the Government of India No. 3 of 1867 I have the honor to submit herewith the Budget Estimate of the Forest Department of this Presidency for the ensuing Official year with the usual accompaniments. A separate copy of the Report with mentioned in the margin with the appendices which are noted in course

of printing, will be furnished to you
in a complete form about the end
of this month for transmission
to the Government of India a-
long with the Budget Estimate.

2. The General Scale of Establish-
ment sanctioned by the Government
of India in their Resolution
dated 27th Novr 1868 No 405 F com-
municated in G.O. 19th January 1869
No 748, having since undergone
some revision, I have indicate
in red ink the charges recently
authorized in the accompanying
Scale of Establishment.

3. The Original Estimate of
Revenue for 1868/69 was revised
by the Madras Government from
Rupees

Rupees 4,20,000 to 4,50,000 for the
reasons stated in para 2 of G.O.
dated 6th November 1867, No 2629.
Against this amount however
only Rs 39,179 have been credit-
ed in the accounts of the Depart-
ment part of Sale proceeds of
Timber remitted to the Treasury & Value
of Timber supplied to Public Depart-
ments during the past Official year,
thus showing a deficiency of Rs 58821
in the Estimated income for 1868-69,
which is due to the circumstance of
a sum of Rs 53,530-4-2 the value of
Timber supplied to Public Departments
from the Anaicutty & Palumputty
Forests not having been adjusted
in consequence of the non-submission of
the requisite Vouchers till after the
close

cases of last year, as well as to the
settlement* of a sum of Rs. 33,100
by Mr. Trevilliall when he was in
charge of the Wynaad Forest
4. Against the estimated Ex-
penditure of Rs. 164300 for 1868-69,
a sum of Rs. 132693 was actually
drawn from the District Treasuries
for Forest Operations, leaving a difference
of Rs. 31,607, in consequence of felling
operations in the Anamallay and
Wynaad Ranges having been suspended
last year
5. The Actuals under "A Conservancy
and Working Establishment" the sums
drawn from the General Treasuries
for Forest operations and entered as such
in Principal Item No. 1 "Timber expenses
for felling timber &c." in accordance
with

* See Proceedings of Govt. No. 2333 dated 14th Augt. 69.

with a requisition of the Accountant
General approved by Government
in G. O dated 17th February 1868
No. 442. Hence they cannot be given
in detail against the several classified
items of the Budget. The total ex-
penditure as shewn in the financial
Statement appended to the Accoun-
panying Forest Annual Report
for 1868-69 comprises the net
amount audited against sub-
-ordinates which have been entered as
actuals in the Budget. The papers
connected with these Variations have
been transmitted to the Govern-
-ment of India in explana-
-tion of the discrepancies noticed
by them in para 3 of their
Proceedings dated 22d February
1869

* G. O. dated 5th August 1869 No. 2269

1869 No. 94 E, Communicated
in G. O. 23rd March 1869 No. 802

Establishment & Office Contingencies

6 There was a saving under this head of Rs. 7721 out of the estimated amount of Rs. 145500 as only Rs. 137779 was expended during 1868-69. This saving is attributable chiefly to the pay of the Conservator not having been drawn, though a portion of it was appropriated to the additional Establishments Sanctioned from time to time, whilst the Officiating Conservator drew only a deputation allowance of Rs. 200 per mensem in addition to the pay of his Substantive appointment

assistantes

Regular Estimate

7 From the Estimated amount of Rupees 470,000, a sum of Rupees 450,000 will, it is anticipated, be fully realized during the year, the calculation being based upon the actuals of the last 5 months

Advances

8 Against the estimated amount of Rupees 193,500, the probable expenditure will be Rupees 17,6000 leaving a balance of Rupees 17,500, which latter will not be required as no Road works on the Salem and Coimbatore Roads are in contemplation this year, while no portion of the Estimate of the Neilgherry and Australian Plantations will

will be drawn, they having been transferred to the Commissioner of the Neilgherries.—

* G.O. 11th March 1869 No. 653

Establishment

1st Head Rupees 150,191, there being a saving of Rupees 6900, being the pay of the Conservator and travelling allowance of the 1st Class Deputy up to the end of last month, of which however, a part will be drawn by the Collector of Salem for the additional establishment of the Tahsildar appointed for the Mango season, the Mango Tope Inspector, and the Peon attached to the Office

* Vaddapalli Pollachy North arcot Shahanad Anamallay Chennal Nair Tirad.

2nd Head Rupees 1,50,191 there being a saving of Rupees 6900, being the pay of the Conservator and travelling allowance of the 1st Class Deputy up to the end of last month, of which however, a part will be drawn by the Collector of Salem for the additional establishment of the Tahsildar appointed for the Mango season, the Mango Tope Inspector, and the Peon attached to the Office

3rd Head Office Contingencies on account of publication of G.O. 8th May 1869 No. 1266.

Extra Official Postage referred to in Para 5 of the accompanying

accompanying Report of the Conservator of Forests for the year 1870-71. Heads three to twelve inclusive of Rupees 2,000 and Head B Establishment and Office Contingencies this year

Budget Estimate

10. The Revenue has been estimated at Rupees 4,60,000 which is Rupees 10,000 over and above the Regular Estimate, which may reasonably be expected to be realized during the course of the official year

Expenditure

11. This has been estimated at Rupees 1,80,000 and exceeds the amount of the Regular Estimate by Rupees 1,0,000. the excess

excess has reference to the provision made for the more expensive etc. establishments kept up at Madras Trincomalee and Salem Forests advanced to in the accompanying Report.

Establishments

12 The salaries and office Contingencies under "B, Establishments" has been estimated at Rupees 165,000 or Rupees 7,500 more than the original Estimate of this year. The additional amount Rupees 3022 asked for is required for the Establishments, authorized since the current years Budget was sanctioned by Government and Rupees 447 8 for Contingencies

as given in the Budget under submission.

13. The anticipated financial results are as follows.

Receipts ——— 1,60,000

A. Conservancy and Working 1,86,000

B. Establishments 165,000

3,51,000

Surplus 109,000

14. The Budget Estimates and accompaniments having been carefully prepared in the Central Office, will, I trust, be found correct.

I have &c

(Signed) R. H. Beddome, Majr

Offg. Conservator of Forests

/True copy/

A. Wedderburn

Ag. Under Secy to Govt

V

Receipts on the Budget
Estt 1870-71

6
Rec'd 29/1/70.
From 19th Feby 70 No 185

Revenue Deptt

No 243.

Proceedings of the Madras Govt
under date the 19th Feby 70

Read the following Do: of the Govt
of India:-

Passing orders on the Madras Forest Budget Estimate for 1870-71:- (H.L. 19th Jany 1870 No 45-46-71)

Communicated to the Offg Conservator of Forests for his information and guidance. Major Beddome's attention will be requested to the remarks in paras 11 and 12 of the Resolution of the Govt of India.

13 Offg Conr of Forests, Decr 20
14 Bd of Revenue
6 Accts Genl
Lr to Bd

5/11

9 Dec
1