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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.	1413	Press
~~B.P. No.~~		~~Mis.~~

Dated 25.9.1875 196 .

Not to be folded or roughly handled

No. 226. Read the following Proceedings of the Board of Revenue, dated 21st June 1875, No. 1,706, Forest No. 112 :—

Read the following letter from Captain CAMPBELL WALKER, Officiating Inspector of Forests, to H. E. STOKES, Esq., Acting Secretary to the Board of Revenue, dated Ootacamund, 24th April 1875, No. 95.

I HAVE the honor to submit the reports on plantations and fire-wood reserves from the districts marginally noted for the half-year ending 31st December 1874.

Plantations.	*Reserves.*
1. Cuddapah.	1. Cuddapah.
2. Bellary.	2. North Arcot.
3. Kurnool.	3. South Arcot.
4. North Arcot.	4. Trichinopoly.
5. South Arcot.	5. Coimbatore.
6. Trichinopoly.	6. Salem.
7. Coimbatore.	7. Malabar.
8. Nilgiris.	
9. Salem.	
10. South Canara.	
11. Malabar.	

2. There has again been great delay in their receipt, and none have as yet been received from Madura or Tinnevelly, the figures for which are, therefore, those of the last report. The Collector of Madura informs me that he has several times called on the Deputy Conservator for the reports, but without effect. The submission of the Tinnevelly report has been delayed by Mr. Hayne's employment on the settlement of the Travancore boundary, and owing to his office-copy of last half-year's report having been mislaid, with reference to which I requested, in January, that a copy might be sent to him from the Board's Office.

3. The nonpublication up to date of the reports for the half-year ending 30th June 1874, along with the memorandum explanatory of Circular No. 35, has complicated the compilation of the general report, as the district forest officers are left in doubt on some important points, and there is diversity of opinion as to the manner in which some of the columns of the report should be filled up. I would submit that it is advisable that the report for one half-year should be published with the Board's remarks before the next is due.

4. I proceed to review the progress made during the half-year, which includes the working season, so far as planting is concerned, in most districts.

PLANTATIONS.

5. Statement A shows the total acreage of imperial plantations in each district and class.

During the half-year 438 acres have been planted at a cost of Rupees 21,493-5-0, and the total area now under plantation is 6,019⅝ as compared with 6,643¾ acres at the date of last report and the total expenditure, Rupees 3,86,493-1-8, against Rupees 3,64,999-12-8 as shown in last report (Rupees 3,60,691-5-10 in paragraph 6 of general report and Madura expenditure, Rupees 4,308-6-10, exhibited separately).

The receipts during the half-year have been Rupees 4,273-11-8 against Rupees 5,890-15-1 during the first half of 1874, raising the total receipts from the commencement to Rupees 1,00,508-4-5.

6. The decrease in total area shown as planted is accounted for as follows :—(1) The forest officer in charge of Cuddapah and Bellary exhibited in his former report the total areas *available* for planting as planted, promising to give the correct areas respectively in his next (*vide* paragraphs 21 and 26 of general report). He has now done so, the result being a decrease of 936 acres in Cuddapah and 74¾ acres in

Bellary (Ghooty). (2) The area (181¼) of the two plantations in Palghaut, known as Nochipully and Pooliampully now merged in the Chenat Nair forests (paragraph 69 of general report), has been deducted, although the expenditure, which, by a clerical error, was stated in last report (paragraph 69) to be Rupees 7,150-9-1 instead of Rs. 3,858-14-0, still swells the gross charge for plantations.

These deductions from the planted area with the *addition* of 104⅞ acres in Madura, omitted in the last general report, and the area planted during the half-year make the total now classed as planted 6,019⅝ acres as exhibited. Mr. Sheffield omits 25 acres formerly exhibited as planted at Ammerdy without any explanation. It has, therefore, been included.

7. Officers cannot be too careful on no account to alter the totals of acreage, receipts, or expenditure carried forward, as the doing so greatly increases the difficulty of compiling the general return. Separate entries should be made of increase, decrease, &c., and the same explained in the remarks. There has been a considerable increase in the area *available* for planting as shown in the general returns.

8. Results of the half-year's operations may generally be regarded as very favorable. The greatest progress has been made in North Arcot (144 acres), Trichinopoly (188 acres), and Nellambur (73 acres). The season was very favorable for planting, but unfortunately the heavy floods in North Arcot did great damage, causing a loss of nearly one lakh of Casuarina plants, large and small. The return for the current half-year will exhibit a considerable increase in area, &c., owing to the transfer of the South Arcot and Nilgiri plantations from Jungle to Imperial Conservancy.

9. The nurseries in the several districts are reported well stocked with seedlings for next season's planting.

10. During the half-year I inspected the plantations in the Anamallai, Madura, Trichinopoly, Nellambur, Mudumullai, Seegoor, and South Canara ranges, and have recorded my views in my Inspection Reports.

11. The estimates of expenditure and financial results required by paragraph 2 of Circular No. 35, in accordance with the Resolution of the Government of India have not been furnished up to date (except in the case of the small Mahogany plantation in Coimbatore, Board's Proceedings, No. 205-3,097, dated 26th October 1874). I beg that the Board will call the attention of Collectors to this point, failing information with regard to which we cannot prepare our budget-estimates in accordance with the orders of the Government of India, nor ensure the allotment of funds necessary for up-keep and extension year by year.

FIRE-WOOD RESERVES.

12. Statement B exhibits the acreage expenditure and receipts in each district. The area of fire-wood reserves has been increased during the half-year by about 9,87 acres, *viz.*, three new reserves in Cuddapah with an estimated area of 6,600 acres, an addition of 1,000 acres to the Baulpully reserve in the same district, and the new reserve at Walliar (Varuliputty) with an estimated area of 2,290 acres. There is a decrease of thirteen acres in Trichinopoly and the area (twenty acres) of the Olavacode reserve in Malabar has been omitted from the return, though the expenditure incurred is still exhibited with reference to the actual amount of expenditure from the commencement.

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13. The total area under reserve is now estimated at 101,202¼ acres as compared with 91,345¼ at the date of last report.

It is not possible from the returns to state how much of this is closed or fenced in. Officers should state this in future reports.

The area stocked is returned as 41,586¼, half-stocked 55,888, and bare 3,728 acres, respectively; but I doubt if any should be considered as fully stocked. The estimates on these points will be quite unreliable until all the reserves are surveyed, and their *crop* estimated as suggested in paragraphs 15 to 17 of last general return.

14. The expenditure for the half-year has been Rupees 34,404-11-1, which includes the amount paid (Rupees 21,020) for the Varuliputty block now incorporated in the Walliar reserve of Malabar. The only other expenditure of importance occurred in Cuddapah, where a sum of Rupees 7,428-5-10 was spent mainly under head "(*b*) Fencing and Enclosing."

15. The receipts during the half-year were Rupees 703-7-1, the main item being derived from experimental felling in the A Reserve in Salem, the results of which have proved favorable beyond expectation, an average yield of upwards of fifteen tons per acre having been secured, whilst a sufficient number of trees remain for reproduction, and those felled are sprouting freely from the stools.

16. One hundred and thirty-six thousand six hundred and forty-three trees appear to have been planted out in the reserves, whilst 19,601 casualties are reported. The progress, on the whole, appears satisfactory.

17. During the half-year under review I inspected the Tinnevelly and Trichinopoly reserves, and called particular attention to the want of progress in Madura, where it is very important that the reserves already sanctioned by Government should be taken up and supplemented.

18. The reserves and plantations should invariably be entered in the same order, and retain the same name, number, or distinguishing letter, unless authority has been granted to change it. Increase or decrease of area, &c., should be fully explained (*vide* remarks in paragraph 7 *supra*).

19. The following remarks on the district returns will show what progress has been made in each district, and, at the same time, place before the Board and Government the difficulties experienced in preparing concise and accurate returns when those received through the Collectors are full of obvious errors, and any reference through the same channel involves great delay; were the district forest officers placed in direct communication with, and held responsible to, the Inspector in such matters, great delay and inconvenience would be saved.

The returns for jungle conservancy plantations and reserves received from some districts are submitted separately in tabular form without review, pending receipt of orders on paragraph 12 of last general report.

PLANTATIONS.

20. CUDDAPAH.—The particulars of area planted and unplanted are given as promised in last report; but, as it is not known how much was planted during the half-year, the total planted area at its close is alone exhibited across the line in Statement A. Mr. Yarde's last column of results is clearly incorrect containing the same figures as in his last return, though casualties have occurred and a considerable number of

trees been put out as stated in his remarks. I have endeavoured to exhibit the correct figures in the general return.

The total expenditure during the half-year was Rupees 1,055-14-0 ; receipts *nil.*

21. Bellary *(Ghooty).*—Remarks as to area as above. 11,364 plants were planted out, and a considerable area broadcast sown. The expenditure for the half-year was Rupees 98-12-8 ; receipts *nil.* It has been proposed to transfer this plantation to jungle conservancy and relieve Mr. Yarde of its charge.

22. Kurnool.—The total expenditure on the Woncarrum plantation was given in Mr. Boileau's last return as Rs. 1,661-13-0, and now brought forward as Rs. 1,624-13-0. The original amount has been entered in the general return. Rs. 190-14-9 appears to be the pay of gardeners on this plantation for seven months, although it is not exhibited under establishment, under which the mysterious item 5 alone appears as in last return *(vide* paragraph 28 of general report), and requires explanation. The number of trees in Woncarrum has increased by six, but all those in Muntikonda appears to have disappeared, as no mention is made of them.

It appears that the sum of Rs. 1,028-10-0 referred to in my last report has to be added to the expenditure since 1870, making Rs. 2,939-1-9 (Rs. 1,910-7-9+Rs. 1,028-10-0) which has been wasted on those gardens. They have now been abandoned (Board's Proceedings, No. 33-568, dated 10th March 1875).

23. North Arcot.—The Ammerdy mixed plantation shown in last return with planted area of twenty-five acres, containing 11,000 trees, which had cost Rs. 2,647-3-9, is omitted altogether in Mr. Sheffield's return. It has been entered in the general return pending explanation.

Trivellum Plantation.—There is a mistake in addition in the total expenditure, which should be Rs. 11,138-9-1 and not Annas 10-1. The receipts were shown in last return as Rs. 370-2-0, which is brought forward in this as Rs. 370-2-2. The corrected figures have been entered in the general return, and the *total* of receipts and expenditure exhibited as Rs. 11,138-9-1 and Rs. 2,247-5-3, respectively ; although 75,000 trees are stated to have been planted there is no charge shown under *(a)* Formation, which requires explanation.

Veerinjeepuram.—Total expenditure brought forward should be Rs. 6,686-11-0 and not Rupees 6,686-10-0 as shown.

Keelminnel.—Area planted is stated to be "about 150 acres," but total acreage is shown as acres 120, which has, therefore, been raised to 150.

Chaynoor.—The area unplanted is entered by Mr. Sheffield as 50 instead of 48 as shown in last return.

Ammondy.—The expenditure brought forward is entered as Rupees 550-11-2 instead of Rupees 553-7-2 as per last report, which has accordingly been exhibited, and the closing total raised to Rupees 680-10-6.

The total acreage planted and unplanted in North Arcot is now shown as 1,524, whilst it was 1,342 by last report. The total expenditure for the half-year has been Rupees 3,107-3-2 and receipts (from the Trivellum plantation) Rupees 1,877-3-3.

South Arcot.—Mr. Wooldridge includes under Imperial works the Casuarina plantations ordered to be transferred by G. O., No. 1,604, dated 21st December 1874, but they have been omitted in the general return, as the transfer does not take effect till 1st April, up to which date all receipts and expenditure were local.

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The expenditure on the three small imperial experimental plantations has been only Rupees 24 during the half-year, for which an acre has been added to the planted area.

The total number of trees now reported established is 4,215.

I have recommended that these plantations be not extended (*vide* Report, No. 673, dated 1st March 1875, on experimental plantations).

25. Trichinopoly, *Elamanoor.*—The expenditure up to commencement of half-year is entered as Rupees 7,831-13-8 instead of Rupees 7,827-8-7 as per last report.

Kulitallai.—The expenditure up to commencement of half-year is entered as Rupees 4,733-11-1 instead of Rupees 4,726-2-10.

Receipts up to commencement of half-year are entered as Rs. 159, whereas in last report no receipts were shown.

Chitalvai.—Expenditure up to commencement of half-year is shown as Rs. 3,550-8-11 instead of Rs. 3,546-13-5.

Kutlay.—Expenditure up to commencement of half-year is shown as Rs. 2,860-6-8 instead of Rs. 2,850-12-2.

Kollamanikum.—Expenditure up to commencement of half-year is shown as Rs. 48-10-3 instead of Rs. 46-10-3. The acreage of the plantation formerly shown as acres 146 is now entered as acres 242.

Kuraipaukum.—Acreage per last report 146 ; now 240.

Varupa Kurachi.—Acreage per last report 36 ; now 192.

Aramanai Kurichi, Teruvenganur Sattembodi, and Puthur appear to be new plantations. The latter is, I know, a tank-bed, of which the acreage, &c., is not given, but a receipt of Rs. 236-9-9 exhibited.

Explanatory notes on all these points should have been given, whilst most of the information given by Mr. Hadfield on his explanatory notes should find place in the body of the report.

The expenditure for the half-year was Rs. 3,921-11-11, receipts Rs. 385-14-9, area planted 188 acres, which is very satisfactory.

The Collector, in his covering letter, bears testimony to this in the following words :—

"I am happy in the belief that real progress is being made under Mr. Hadfield's assiduous care, and that in course of time the padugais will give much more advantageous returns in various ways than they would have done under any other system of treatment."

26. Coimbatore, *Anamallai.*—The expenditure has been Rs. 483-15-0 for the half-year, for which we have an increase of 3,250 in the number of trees established. Receipts *nil.* Mr. Douglas in a report, which is needlessly long, explains that former statements as to area, number of trees, &c., were more or less erroneous. He increases the area of No. 1 plantation by half an acre, but, as it is all estimated, I have thought it as well to enter it as shown before. He expresses his opinion, which the Collector endorses, that remunerative results cannot be expected from teak-planting on the Anamallais (*vide* remarks in paragraph 43 of last general report).

Sattiamungalum.—The amount of expenditure on this plantation up to end of June 1874 should be Rupees 11,357-3-7 and not Rupees 11,577-3-7 as stated in

paragraph 45 of last report; the correct amount has been exhibited in the tabular statement.

The expenditure during the half-year has been Rupees 903-4-3, for which four acres of Sandalwood and Arnath (*Bixa orellana*) have been added to the planted area, making in all 73 acres containing 74,600 trees, which have cost Rupees 12,260-7-10.

Collegal.—Expenditure during half-year Rupees 1,443-8-5 for planting 4 acres of Sandalwood and maintaining the plantation which now extends over 60 acres containing 58,300 trees which have cost from commencement Rupees 13,271-12-5. General Morgan states that both the above are thriving, and that the work has been satisfactorily carried on. Ten acres in Suthiamangalam and 20 acres in Collegal are ready for planting next season. I doubt the necessity of extending Sandalwood planting.

27. Nilgiri District, *Mudumallai.*—The expenditure for the half-year has been Rupees 1,133-12-0. Two acres have been added to the planted area, which is now given at 80 acres containing 83,000 trees, which have cost from the commencement Rupees 20,047-4-1.

Sigoor.—Expenditure Rupees 612-0-8: 6,000 Sandalwood plants put out in pits formerly dug, and the plantation weeded, pruned, &c. 24,500 plants are now reported as established in 25 acres, which have cost from the commencement Rupees 4,258-14-8.

28. Salem.—The expenditure during half-year has been Rupees 517-8-10, for which 3 acres appear to have been added to the planted area of the Goondoor and Kanavanayagas Sundrum plantations.

The Mullapurum plantation referred to in paragraph 60 of the last general report has been merged in the C Reserve as I supposed. I would stop all extension of planting in this district for the present.

29. South Canara.—There is an increase of 10 acres under planted area, and 20,936 trees are entered as planted out. The expenditure has been Rs. 659-7-4 during the half-year, and Rupees 7,231-10-6 from commencement up to end of 1874. Under recent orders the whole area will probably be claimed by the adjoining Wurgdars.

30. Malabar, *Nelambur.*—Seventy-three acres have been planted during the half-year (making 200 acres during the year 1874), at a cost of Rupees 7,336-4-0. Receipts during the half-year, Rupees 2,660-9-8.

In order to arrive at correct conclusions as to cost of these plantations, I request permission to include the original purchase-money of the land, amounting, I believe, to Rupees 94,000 in the expenditure.

Mr. Stanbrough appears to have carried on operations satisfactorily.

31. *Palghaut.*—The expenditure incurred on account of the Noochipully and Pooliampully plantations, amounting to Rupees 3,858-14-0, is retained in the totals of expenditure, although the plantations have been merged in the Chenat Nair forests, in accordance with Board's Proceedings, No. 180-2,732, of 23rd September 1874. If the Board do not approve of this course, I request permission to write off the amount.

FIRE-WOOD RESERVES.

32. Cuddapah, *Baulpully No I.*—The Deputy Conservator states that in consequence of the addition of a large tract of hill forest and lowland, east, west, and south of the old reserve, the estimated area has been increased from 1000 to 2,000

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acres. Mr. Yarde informs in his report that the fencing of the Reserves Nos. I., II., and III. is in progress, but does not give the extent completed up to end of half-year.

Codoor Hill, No. IV.—It appears from the Deputy Conservator's report that fencing progressed a little, and has come to a stand-still at the boundary of the Vellalavarikadu Shrotriemdars, which prevents the completion and amalgamation of it with the preceding Reserve No. III.

Yerragoonta Cottah No. V., Thunakondah No. VI., and Vakateekondah No. VII.—It is stated that fencing was completed in September and November 1874, the estimated areas of the reserves are 3,000, 600, and 3,000, respectively.

Gathalla and Nukapully, No. VIII.—It is stated in the report that fencing is in progress, but the extent which was completed up to end of half-year is not given.

(1.) The columns stocked, &c., in Cuddapah District are again omitted, *vide* last general report, paragraph 70.

(2.) The total expenditure for the half-year is Rupees 7,428-5-10 against Rupees 542 last half-year. Expenditure from the commencement is Rupees 10,873-6-9.

(3.) There seems to be an addition of three new reserves this half-year; receipts *nil*.

33. North Arcot. (1.) There is a discrepancy of Rupees 10 in the total expenditure as shown in last half-year, and the same brought forward this half-year which has been rectified.

(2.) The expenditure during half-year is Rupees 295-2-0, and total expenditure from the commencement Rupees 2,654-6-5.

(3.) The last column of results was shown in last half-year as 2,000 acres, which is now omitted; it is included in the general report pending explanation.

(4.) The returns for Jungle Conservancy are submitted separately without review, *vide* paragraph 12 of the last general report.

34. South Arcot. (1.) Kottamangalum was shown in last report just below Moottacadoo, which order has not been preserved in this report.

(2.) In last year's general report it was shown that 14,000 acres are classed as stocked which ought to be 14,100.

(3.) The expenditure from commencement is Rupees 8,225-12-8; during the half-year Rupees 1,244-14-0. The receipts during the half-year were Rupees 130-9-0, and up to end of half-year Rupees 529-5-4.

(4.) In the last column of results the number of acres was shown in last half-year as follows:—

Gungavarum	6,000 acres.	This has been omitted in Mr. Woolridge's report for the half-year under review.
Peringulathoor	800 ,,	
The Cusba Reserve	400 ,,	

35. Trichinopoly. (1.) Figures not correctly posted.

(2.) The area stocked, &c., in Stripurandum Reserve differs from that exhibited last half-year, *i.e.*, 463 in this report and 476 in last. There is a difference of 13 acres, for which no explanation is afforded.

(3.) Against Lalapett Reserve, Rupees 2,507-1-2 is entered under the total expenditure up to commencement of half-year, instead of Rupees 2,476-13-3 as per last half-yearly report.

(4.) Under Stripurandum, Rupees 16-4-0 are shown as expenditure up to the commencement of half-year, which ought to be Rupees 15-11-0 as per last report.

(5.) Gross expenditure up to the end of half-year, Rupees 4,768-9-8; during this half-year Rupees 864-2-6. Receipts during half-year, Rupees 34-8-0 (from Lalapett Reserve), and up to end of half-year, Rupees 750-2-2.

36. TINNEVELLY.—No return received, consequently parts of columns Nos. 8, 9, and 10 left blank.

37. COIMBATORE, *Mettapolliem.* (1.) The Deputy Conservator gives the estimated area in square miles, which have been reduced to acres to secure uniformity.

(2.) The total expenditure up to the end of half-year is not shown in the Deputy Conservator's report. Expenditure during half-year for the three reserves known as H, K, and M, is Rupees 70-8-0, and total expenditure up to the end of half-year, Rs. 2,130-14-0. Receipts during half-year from M Reserve are Rs. 70.

Sholakurray Reserve. (1.) Particulars of acres stocked, &c., are not definitely shown, consequently they were brought under half-stocked, *vide* paragraph 70 of the last general report.

(2.) The designation of the above reserve was altered from Walliar to Sholakurray (*vide* Board's Proceedings, No. 36-602, dated 12th March 1875).

(3.) The total expenditure for the half-year is Rs. 79-11-3, and from commencement up to the end, Rs. 12,695-14-2.

(4.) The figures exhibited under Results are incorrect as compared with those of last half-year. The Deputy Conservator submits separate returns for the Mettapolliem and Bolumputty Reserves. This will not be necessary in future, as the whole will be reserves of the North Coimbatore Range, retaining, of course, their distinctive name, number, or letter.

38. SALEM. (1.) There is some discrepancy under Results with regard to the D and E Reserves compared with last half-year's returns. The Acting Deputy Conservator shows number of pits under Casualties, which I don't understand.

(2.) Expenditure during half-year is Rs. 2,551-4-0, and that up to the end of half-year is Rs. 17,827-9-7. Receipts for the half-year Rs. 307-14-1, and up to the end Rs. 683-6-1.

(3.) For the last three reserves in Salem District the results columns have not been filled in. The casualties in the C Reserve during the half-year appear to have been in excess of the number of trees planted out, which is not encouraging.

39. MALABAR, *Palghaut Range—Pulambarai.* (1.) It appears from the remarks of the Tahsildar in charge that Rs. 663-15-6 under column "Improvements and Conservation" includes the expenditure under "Other Heads." It is not clear what this means.

Varaliputty.—This has been acquired since the date of submission of last half-year's report, and the purchase-money should, therefore, be shown under Expenditure *during* the half-year and not up to commencement of half-year.

Oolavacode.—The expenditure on this reserve has been included in order to make totals tally with that of last half-year's return. The area which is quite bare of trees is, however, omitted both in the district and general returns.

Gross expenditure in the Walliar Range from the commencement has been Rupees 46,656-6-0, and during the half-year, Rs. 21,870-11-6.

The receipts during the half-year were Rs. 160-8-0.

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ENCLOSURE No. 1.

ABSTRACT.—Report on Plantations in the several districts of the Madras Presidency for the half-year ending 31st December 1874.

ENCLOSURE No. 2.

ABSTRACT.—Report on the Fire-wood Reserves in the several districts of the Madras Presidency for the half-year ending 31st December 1874.

ENCLOSURE No. 3.

ABSTRACT.—Statement A showing the extent of existing Plantations (under Imperial Forest Department) in each district and the class to which they belong, &c., made up to 31st December 1874.

ENCLOSURE No. 4.

ABSTRACT.—Statement showing the extent of existing Fire-wood Reserves (under Imperial Forest Department) in each district, made up to 31st December 1874.

ENCLOSURE No. 5.

ABSTRACT.—Report on the Jungle Conservancy Plantations in the several districts of the Madras Presidency for the half-year ending 31st December 1874.

ENCLOSURE No. 6.

ABSTRACT.—Report on the Jungle Conservancy Fire-wood Reserves in the several districts of the Madras Presidency for the half-year ending 31st December 1874.

Statement A showing the Extent of existing Plantations (under Imperial Forest Department) in each District, and the Class to which they belong, &c., made up to 31st December 1874.

Name of District and Ranges.		Area planted.		Total according to Class.					Expenditure.			Receipts.			Remarks.
Districts.	Ranges.	Up to commencement of half-year.	During the half-year.	Timber.	Mixed.	Fire-wood.	Experimental.	Total.	Up to commencement of half-year.	During half-year.	Total.	Up to commencement of half-year.	During half-year.	Total.	
									Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1. Cuddapah ...	Cuddapah... ...	792	...	...	...	742	50	792	38,317 12 10	1,055 14 0	39,373 10 10	.....	.....	.....	No returns have as yet been received from Madura and Tinnevelly, the figures for which are therefore those of last report. The expenditure incurred on account of the Amerdy, Noochipully, and Pooliampully Plantations, amounting to Rupees 6,506-1-9, is retained in the total expenditure, *vide* general remarks.
2. Bellary... ...	Bellary	330	...	...	...	330	...	330	9,188 1 0	98 12 8	9,286 13 8	.....	.....	.....	
3. Kurnool ...	Kurnool	15	...	...	...	...	15	15	1,714 9 0	195 14 9	1,910 7 9	.....	.....	.....	
4. North Arcot.	North Arcot ...	840	144	...	106	878	...	984	27,772 0 4	3,107 3 2	30,879 3 6	386 2 0	1,877 3 3	2,263 5 3	
5. South Arcot.	South Arcot ...	7½	1	...	...	...	8½	8½	469 10 10	24 0 0	493 10 10	.....	.....	.....	
6. Trichinopoly.	Trichinopoly ...	185	188	...	...	373	...	373	19,158 2 9	3,921 11 11	23,079 15 8	1,530 5 1	335 14 9	1,866 3 10	
7. Madura... ...	Madura	104⅞	...	...	...	...	104⅞	104⅞	4,308 6 10	.....	4,308 6 10	.....	.....	.....	
8. Coimbatore	Anamallai... ...	13	4	...	...	...	17	17	3,050 12 11	483 15 0	3,534 11 11	.....	.....	.....	
	Suthiamangalam.	69	4	73	...	...	...	73	11,357 3 7	903 4 3	12,260 7 10	.....	.....	.....	
	Collegal	56	4	60	...	...	...	60	11,828 4 0	1,443 8 5	13,271 12 5	.....	.....	.....	
9. Nilgiris ...	Mudumallai ...	78	2	80	...	...	...	80	18,913 8 1	1,133 12 0	20,047 4 1	.....	.....	.....	
	Sigur...	20	5	25	...	...	...	25	3,646 14 0	612 0 8	4,258 14 8	.....	.....	.....	
10. Salem... ...	Salem...	6½	3	...	...	...	9½	9½	3,669 9 7	517 8 10	4,187 2 5	.....	.....	.....	
11. South Canara.	South Canara...	75	10	85	...	...	...	85	6,572 3 2	659 7 4	7,231 10 6	.....	.....	.....	
12. Malabar... ...	Nelambur... ...	2,990	73	3,063	...	...	...	3,063	2,01,173 10 9	7,336 4 0	2,08,509 14 9	94,318 1 8	2,060 9 8	96,378 11 4	
	Add expenditure of Noochipully.	.....	...	...	...	...	...	...	2,209 14 4	.....	2,209 14 4	.....	.....	.....	
	Add expenditure of Pooliampully	.....	...	...	...	...	...	...	1,648 15 8	.....	1,648 15 8	.....	.....	.....	
	Total...	5,581½	438	3,386	106	2,323	204½	6,019½	3,64,999 12 8	21,493 5 0	3,86,493 1 8	96,234 8 9	4,273 11 8	1,00,508 4 5	

Ootacamund,
24th April 1875.

(Signed) C. WALKER, Captain,
Officiating Inspector of Forests.

Statement showing the Extent of existing Fire-wood Reserves (under Imperial Forest Department) in each District made up to 31st December 1874.

Name of District and Ranges.		Area.		Expenditure.			Receipts.			Results.			Remarks.
Districts.	Ranges.	On 30th June 1874 as per last report.	On 31st December as per this report.	Up to commencement of half-year.	During half-year.	Total.	Up to commencement of half-year.	During half-year.	Total.	Area or number of trees planted out during half year.	Casualties during half year.	Area or number of trees which may be considered as stocked or permanently established.	
				Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.				
1. Cuddapah ...	Cuddapah ...	9,230	16,830	3,445 0 11	7,428 5 10	10,873 6 9	.....	.....	.....	.....	.....	.....	The area shown is for the most part estimated. So far as can be at present ascertained, it may be classified as follows :—
2. North Arcot.	North Arcot...	2,560	2,560	2,359 4 5	295 2 0	2,654 6 5	.....	.....	.....	.....	.....	2,000 acres.	
3. South Arcot.	South Arcot ...	40,550	40,550	6,980 1[illegible] 8	1,244 14 0	8,225 12 8	398 12 4	130 9 0	529 5 4	11,951	8,165	87,996 and 14,100 acres.	
4. Trichinopoly.	Trichinopoly...	2,734	2,721	3,904 7 2	864 2 6	4,768 9 8	715 10 2	34 8 0	750 2 2	1,10,514 10½ acres	2,793	2,115 acres.	Stocked.. 41,586¼ Half do.. 58,888 Bare ... 3,728 Total .. 1,01,202¼
5. Tinnevelly ...	Tinnevelly ...	2,000	2,000	7,055 0 8	.....	7,055 0 8	103 11 3	.....	103 11 3	.....	.....	.....	
6. Coimbatore...	Mettapolliem...	12,160	12,160	2,060 6 0	70 8 0	2,130 14 0	.....	70 0 0	70 0 0	.....	.....	.....	
	Sholakurray...	1,010	1,010	12,616 2 11	79 11 3	12,695 14 2	559 1 6	.....	559 1 6	2,600	2,600	4,400	
7. Salem... ...	Salem	19,369	19,369	15,276 5 7	2,551 4 0	17,827 9 7	375 8 0	307 14 1	683 6 1	11,578	6,043	19,369 acres and 21,953	
8. Malabar ...	Walliar... ...	1,732¼	4,002¼	24,785 10 6	21,870 11 6	46,656 6 0	0 8 6	160 8 0	161 0 6	.....	.....	4,002¼ acres.	
	Add expenditure of Oolavacode.	.....	.....	106 9 1	.....	106 9 1	.....	.....	.....	.....	.....	.....	
	Total...	91,345¼	1,01,202¼	78,589 13 11	34,404 11 1	1,12,994 9 0	2,153 3 9	703 7 1	2,856 10 10	1,36,643 and 63½ acres.	19,601	1,14,349 41,586¼ acres.	

Ootacamund,
24th April 1875.

(Signed) C. WALKER, Captain,
Officiating Inspector of Forests.

1413/6

SUBMITTED for the information of Government, with reference to Board's Proceedings, dated 26th April 1875, No. 1,032.

2. The returns as to reserves and plantations for the half-year ending 31st December 1874 appear to be still very unsatisfactory and inaccurate both as to the actual areas included and the expenditure in past years. The Board have not yet received Captain Walker's remarks on the revised forms proposed by the Board in the Proceedings above quoted.

3. The general results of the half-year under report appear to have been very satisfactory. The area under plantations, owing to certain changes specified by Captain Walker in paragraph 6 of his letter, has fallen from acres 6,643¾ to acres 6,019⅝, and that under reservation for fire-wood has increased from acres 91,345¼ to acres 1,01,202¼. This is owing principally to the extension of reserved area in Cuddapah. The Board are not aware that the formation of these reserves (though no doubt desirable and generally approved in Board's Proceedings, dated 4th August 1874, No. 2,081) has been formally sanctioned, and the Collector will report more in detail on the matter.

4. The area stocked is now estimated at acres 41,586¼, while acres 55,888 are entered as half-stocked, equivalent on the whole to acres 69,585 fully stocked. Captain Walker doubts whether any should be considered as fully stocked, and certainly it seems curious that only 3¾ per cent. of the whole area should be considered "bare." The Board call attention to paragraph 15 in which the result of experimental felling in Salem is given and described as favorable beyond expectation, 15 tons per acre having been secured without undue clearance. Supposing that the whole area now under reservation were half-stocked, which is probably an extreme assumption, the yield of the reserves would at this more favorable rate be 63,251 tons instead of 53,118 tons as estimated by the Board in their Proceedings, dated 26th April 1875, No. 1,030. But, as the Board have already stated, the estimate of area and stocking is at present very vague, and until the reserves are surveyed, and the revised forms suggested by the Board, or improvements on them, carefully filled in, no exact conclusions as to the value of the reserves can be arrived at. Captain Walker's remarks on the details for each district show how inaccurately the present returns are prepared.

5. The Board are in correspondence with the Collector of Madura as to the measures taken for the formation of fire-wood reserves in that district.

6. There is apparently some misquotation in paragraph 11 of Captain Walker's letter. The Circular No. 35 quoted appears to be irrelevant.

(True Copies and Extract.)

(Signed) H. E. STOKES,
Acting Secretary.

No. 227. ORDER THEREON, 25th September 1875, No. 1,413.

Forests, No. 21.

THE Government consider the results of the half-year to be, on the whole, satisfactory.

2. The area of the plantations is now computed to be acres 6,019⅝, and that of the fire-wood reserves acres 1,01,202¼, including certain extensions in Cuddapah not yet formally sanctioned.

3. Little reliance, however, can be placed on the estimates hitherto formed as to the area and stocking of the latter, and subsequent correspondence between the Inspector and the Board has shown that the outturn from the Salem reserves was erroneously calculated.

(True Extract.)

(Signed) L. A. CAMPBELL,
Under-Secretary to Government.

To the Board of Revenue.
„ the Officiating Inspector of Forests.

Exd. F. R. Bantleman.

Govt. of Madras.

REVENUE.

To

THE BOARD OF REVENUE,

&c., &c., &c.

Dated September, 25th.

Recd.

Encl.

G. O., 25th September 1875, No. 1,413.

SEPTEMBER.

Nos. 226-227.

Plantations and Firewood Reserves of the Madras Presidency.—Reviewing report on the — for the half-year ending 31st December 1874.

Nº 225. Read letter from Conservator of Forests, dated 15th June 1875, forwarding report for half-year ending 31st December 1874.

1413/8

OFFICE OF INSPECTOR OF FORESTS,
OOTACAMUND, *24th April* 1875.

No. 95.

FROM CAPTAIN CAMPBELL WALKER,
Officiating Inspector of Forests,

To H. E. STOKES, Esq.,
Acting Secretary to the Board of Revenue.

I have the honor to submit the reports on plantations and firewood reserves from the districts marginally noted for the half-year ending 31st December 1874.

Plantations.	*Reserves.*
1. Cuddapah.	1. Cuddapah.
2. Bellary.	2. North Arcot.
3. Kurnool.	3. South Arcot.
4. North Arcot.	4. Trichinopoly.
5. South Arcot.	5. Coimbatore.
6. Trichinopoly.	6. Salem.
7. Coimbatore.	7. Malabar.
8. Nilgiris.	
9. Salem.	
10. South Canara.	
11. Malabar.	

2. There has again been great delay in their receipt, and none have as yet been received from Madura or Tinnevelly, the figures for which are, therefore, those of the last report. The Collector of Madura informs me that he has several times called on the Deputy Conservator for the reports, but without effect. The submission of the Tinnevelly report has been delayed by Mr. Hayne's employment on the settlement of the Travancore boundary and owing to his office-copy of last half-year's report having been mislaid, with reference to which I requested in January that a copy might be sent to him from the Board's Office.

3. The non-publication, up to date, of the reports for the half-year ending 30th June 1874, along with the memorandum explanatory of Circular No. 35, has complicated the compilation of the general report, as the district forest officers are left in doubt on some important points, and [illegible] as to the manner in which [illegible] of the columns of the report should be [illegible] advisable that [illegible] report for one half-year should be published with the Board's remarks before the next is due.

4. I proceed to review the progress made during the half-year, which includes the working season, so far as planting is concerned, in most districts.

PLANTATIONS.

5. Statement A shows the total acreage of imperial plantations in each district and class. During the half-year 438 acres have been planted at a cost of Rupees 21,493-5-0, and the total area now under plantation is 6,019⅝ as compared with 6,643¾ acres at the date of last report, and the total expenditure, Rupees 3,86,493-1-8, against Rupees 3,64,999-12-8 as shown in last report (Rupees 3,60,691-5-10 in paragraph 6 of general report and Madura expenditure Rupees 4,308-6-10 exhibited separately).

The receipts during the half-year have been Rupees 4,273-11-8 against Rupees 5,890-15-1 during the first half of 1874, raising the total receipts from the commencement to Rupees 1,00,508-4-5.

6. The decrease in total area shown as planted is accounted for as follows:—(1) The Forest Officer in charge of Cuddapah and Bellary exhibited in his former report the total areas *available* for planting as planted, promising to give the correct areas respectively in his next (*vide* paragraphs 21 and 26 of general report). He has now done so, the result being a decrease of 936 acres in Cuddapah, and 74⅜ acres in Bellary (Ghooty). (2) The area (181¼) of the two plantations in Palghat known as Nochipully and Pooliampully now merged in the Chenat Nair forests (paragraph 69 of general report) has been deducted, although the expenditure, which by a clerical error was stated in last report (paragraph 69) to be Rupees 7,150-9-1 instead of Rs. 3,858-14-0, still swells the gross charge for plantations.

These deductions from the planted area with the *addition* of 104⅞ acres in Madura omitted in the last general report and the area planted during the half-year make the total now classed

as planted 6,019⅝ acres as exhibited. Mr. Sheffield omits 25 acres formerly exhibited as planted at Ammerdy without any explanation. It has, therefore, been included.

7. Officers cannot be too careful on no account to alter the totals of acreage, receipts, or expenditure carried forward, as the doing so greatly increases the difficulty of compiling the general return. Separate entries should be made of increase, decrease, &c., and the same explained in the remarks. There has been a considerable increase in the area *available* for planting as shown in the general returns.

8. Results of the half-year's operations may generally be regarded as very favorable. The greatest progress has been made in North Arcot (144 acres), Trichinopoly (188 acres), and Nellambur (73 acres). The season was very favorable for planting, but unfortunately the heavy floods in North Arcot did great damage, causing a loss of nearly one lakh of casuarina plants, large and small. The return for the current half-year will exhibit a considerable increase in area, &c., owing to the transfer of the South Arcot and Nilgiri plantations from Jungle to Imperial Conservancy.

9. The nurseries in the several districts are reported well stocked with seedlings for next season's planting.

10. During the half-year I inspected the plantations in the Anamallai, Madura, Trichinopoly, Nellambur, Mudumullai, Seegoor, and South Canara ranges, and have recorded my views in my inspection reports.

11. The estimates of expenditure and financial results required by paragraph 2 of Circular No. 35, in accordance with the resolution of the Government of India have not been furnished up to date (except in the case of the small Mahogany plantation in Coimbatore—Board's Proceedings, No. 205-3,097, dated 26th October 1874). I beg that the Board will call the attention of Collectors to this point, failing information with regard to which we cannot prepare our budget estimates in accordance with the orders of the Government of India, nor ensure the allotment of funds necessary for upkeep and extension yea- ·ar.

FIRE[illegible]OD RESERV[illegible]

12. Statement B exhibits the acreage expenditure and receipts in each district. The area of firewood reserves has been increased during the half-year by about 9,857 acres, *viz.*, three new reserves in Cuddapah with an estimated area of 6,600 acres, an addition of 1,000 acres to the Baulpully reserve in the same district, and the new reserve at Walliar (Varuliputty) with an estimated area of 2,290 acres. There is a decrease of thirteen acres in Trichinopoly and the area (twenty acres) of the Olavacode reserve in Malabar has been omitted from the return, though the expenditure incurred is still exhibited with reference to the actual amount of expenditure from the commencement.

13. The total area under reserve is now estimated at 101,202¼ acres as compared with 91,345¼ at the date of last report.

It is not possible from the returns to state how much of this is closed or fenced in. Officers should state this in future reports.

The area stocked is returned as 41,586¼, half-stocked 55,888, and bare 3,728 acres respectively, but I doubt if any should be considered as fully stocked. The estimates on these points will be quite unreliable until all the reserves are surveyed, and their *crop* estimated as suggested in paragraphs 15 to 17 of last general return.

14. The expenditure for the half-year has been Rupees 34,404-11-1, which includes the amount paid (Rupees 21,020) for the Varuliputty block now incorporated in the Walliar reserve of Malabar. The only other expenditure of importance occurred in Cuddapah, where a sum of Rupees 7,428-5-10 was spent mainly under head "(*b.*) fencing and enclosing."

15. The receipts during the half-year were Rupees 703-7-1, the main item being derived from experimental felling in the A reserve in Salem, the results of which have proved favorable beyond expectation, an average yield of upwards of fifteen tons per acre having been secured, whilst a sufficient number of trees remain for reproduction, and those felled are sprouting freely from the stools.

16. One hundred and thirty-sixthousand six hundred and forty-three trees appear to have been planted out in the reserves, whilst 19,601 casualties are reported. The progress on the whole appears satisfactory.

17. During the half-year under review I inspected the Tinnevelly and Trichinopoly reserves, and called particular attention to the want of progress in Madura, where it is very important that the reserves already sanctioned by Government should be taken up and supplemented.

18. The reserves and plantations should invariably be entered in the same order, and retain the same name, number, or distinguishing letter unless authority has been granted to change it. Increase or decrease of area, &c., should be fully explained (*vide* remarks in paragraph 7 *supra*).

19. The following remarks on the district returns will show what progress has been made in each district, and at the same time place before the Board and Government the difficulties experienced in preparing concise and accurate returns when those received through the Collectors are full of obvious errors, and any reference through the same channel involves great delay; were the district forest officers placed in direct communication with, and held responsible to, the Inspector in such matters, great delay and inconvenience would be saved.

The returns for jungle conservancy plantations and reserves received from some districts are submitted separately in tabular form without review pending receipt of orders on paragraph 12 of last general report.

PLANTATIONS.

20. Cuddapah.—The particulars of area planted and unplanted are given as promised in last report; but, as it is not known how much was planted during the half-year, the total planted area at its close is alone exhibited across the line in Statement A. Mr. Yarde's last column of results is clearly incorrect containing the same figures as in his last return, though casualties have occurred and a considerable number of trees [illegible]out out as stated in his remarks. I have

[illegible]rrect figures in the gene[illegible]eturn.

[illegible] total expenditure during the half-year was Rupees 1,055-14-0; receipts *nil.*

21. Bellary *(Ghooty)*.—Remarks as to area as above. 11,364 plants were planted out, and a considerable area broadcast sown. The expenditure for the half-year was Rupees 98-12-8; receipts *nil.* It has been proposed to transfer this plantation to jungle conservancy and relieve Mr. Yarde of its charge.

22. Kurnool.—The total expenditure on the Woncarrum plantation was given in Mr. Boileau's last return as Rupees 1,661-13-0, and now brought forward as Rupees 1,624-13-0. The original amount has been entered in the general return. Rupees 190-14-9 appears to be the pay of gardeners on this plantation for seven months, although it is not exhibited under establishment, under which the mysterious item 5 alone appears as in last return (*vide* paragraph 28 of general report), and requires explanation. The number of trees in Woncarrum has increased by six, but all those in Muntikonda appears to have disappeared, as no mention is made of them.

It appears that the sum of Rupees 1,028-10-0 referred to in my last report has to be added to the expenditure since 1870, making Rupees 2,939-1-9 (Rupees 1,910-7-9 + Rupees 1,028-10-0) which has been wasted on those gardens. They have now been abandoned (Board's Proceedings, No. 33-568, dated 10th March 1875.

23. North Arcot.—The Amerdy mixed plantation shown in last return with planted area of twenty-five acres, containing 11,000 trees, which had cost Rupees 2,647-3-9, is omitted altogether in Mr. Sheffield's return. It has been entered in the general return pending explanation.

Tricellum Plantation.—There is a mistake in addition in the total expenditure, which should be Rupees 11,138-9-1 and not Annas 10-1. The receipts were shown in last return as Rupees 370-2-0, which is brought forward in this as Rupees 370-2-2. The corrected figures have been entered in the general return, and the *total* of receipts and expenditure exhibited as Rupees 11,138-9-1 and Rupees 2,247-5-3 respectively; although 75,000 trees are stated to have been planted there is no harge shown under (*a*) formation, which requires explanation.

Veerinjeepuram.—Total expenditure brought forward should be Rupees 6,686-11-0, and not Rupees 6,686-10-0 as shown.

Keelminnel.—Area planted is stated to be "about 150 acres," but total acreage is shown as acres 120, which has therefore been raised to 150.

Chaynoor.—The area unplanted is entered by Mr. Sheffield as 50 instead of 48 as shown in last return.

Ammondy.—The expenditure brought forward is entered as Rupees 550-11-2 instead of Rupees 553-7-2 as per last report, which has accordingly been exhibited, and the closing total raised to Rupees 680-10-6.

The total acreage planted and unplanted in North Arcot is now shown as 1,524, whilst it was 1,342 by last report. The total expenditure for the half-year has been Rupees 3,107-3-2 and receipts (from the Trivellum plantation) Rupees 1,877-3-3.

South Arcot.—Mr. Wooldridge includes under Imperial works the casuarina plantations ordered to be transferred by G. O., No. 1,604, dated 21st December 1874, but they have been omitted in the general return, as the transfer does not take effect till 1st April, up to which date all receipts and expenditure were local.

The expenditure on the three small imperial experimental plantations has been only Rupees 24 during the half-year, for which an acre has been added to the planted area.

The total number of trees now reported established is 4,215.

I have recommended that these plantations be not extended (*vide* report, No. 673, dated 1st March 1875, on experimental plantations.

25. Trichinopoly—*Elamanoor.*—The expenditure up to commencement of half-year is entered as Rupees 7,831-13-8 instead of Rupees 7,827-8-7 as per last report.

Kulitallai.—The expenditure up to commencement of half-year is entered as Rs. 4,733-11-1 instead of Rupees 4,726-2-10.

Receipts up to commencement of half-year are entered as Rupees — report no receipts were shown.

Chitalvai.—Expenditure up to commencement of half-year is shown as Rupees 3,550-8-11 instead of Rupees 3,546-13-5.

Kutlay.—Expenditure up to commencement of half-year is shown as Rupees 2,860-6-8 instead of Rupees 2,850-12-2.

Kollamanikum.—Expenditure up to commencement of half-year is shown as Rupees 48-10-3 instead of Rupees 46-10-3. The acreage of the plantation formerly shown as acres 146 is now entered as acres 242.

Kuraipaukum.—Acreage per last report 146; now 240.

Varupa Kurachi.—Acreage per last report 36; now 192.

Aramanai Kurichi, Teruvenganur Sattembodi, and Puthur appear to be new plantations. The latter is, I know, a tank-bed, of which the acreage, &c., is not given, but a receipt of Rupees 236-9-9 exhibited.

Explanatory notes on all these points should have been given, whilst most of the information given by Mr. Hadfield on his explanatory notes should find place in the body of the report.

The expenditure for the half-year was Rupees 3,921-11-11, receipts Rupees 385-14-9, area planted 188 acres, which is very satisfactory.

The Collector, in his covering letter, bears testimony to this in the following words:—

"I am happy in the belief that real progress is being made under Mr. Hadfield's assiduous care, and that in course of time the padugais will give much more advantageous returns in various ways than they would have done under any other system of treatment."

26. Coimbatore—*Anamallai.*—The expenditure has been Rupees 483-15-0 for the half-year, for which we have an increase of 3,250 in the number of trees established. Receipts *nil.* Mr. Douglas in a report, which is needlessly long, explains that former statements as to area, number of trees, &c., were more or less erroneous. He increases the area of No. 1 plantation by half an acre, but, as it is all estimated, I have thought it as well to enter it as shown before

He expresses his opinion, which the Collector endorses, that remunerative results cannot be expected from teak-planting on the Anamallais (*vide* remarks in paragraph 43 of last general report).

Sattiamungalum.—The amount of expenditure on this plantation up to end of June 1874 should be Rupees 11,357-3-7 and not Rupees 11,577-3-7 as stated in paragraph 45 of last report; the correct amount has been exhibited in the tabular statement.

The expenditure during the half-year has been Rupees 903-4-3, for which four acres of Sandalwood and Arnath (*Bixa orellana*) have been added to the planted area, making in all 73 acres containing 74,600 trees, which have cost Rupees 12,260-7-10.

Collegal.—Expenditure during half-year Rupees 1,443-8-5, for planting 4 acres of Sandalwood and maintaining the plantation which now extends over 60 acres containing 58,300 trees which have cost from commencement Rupees 13,271-12-5. General Morgan states that both the above are thriving and that the work has been satisfactorily carried on. Ten acres in Suthiamangalam and 20 acres in Collegal are ready for planting next season. I doubt the necessity of extending Sandalwood planting.

27. Nilgiri District.—*Mudumallai.*—The expenditure for the half-year has been Rupees 1,133-12-0. Two acres have been added to the planted area, which is now given at 80 acres containing 83,000 trees, which have cost from the commencement Rupees 20,047-4-1.

Sigoor.—Expenditure Rupees 612-0-8: 6,000 Sandalwood plants put out in pits formerly dug, and the plantation weeded, pruned, &c. 24,500 plants are now reported as established in 25 acres, which have cost from the commencement Rupees 4,258-14-8.

28. Salem.—The expenditure during half-year has been Rupees 517-8-10, for which 3 acres appear to have been added to the planted area of the Goondoor and Kanavanayagas Sundrum plantations.

The Mullapurum plantation referred to in paragraph 60 of the last general report has been merged in the C. Reserve as I supposed. I would stop all extension of planting in this district for the present.

29. South Canara.—There is an increase of 10 acres under Planted Area, and 20,936 trees are entered as planted out. The expenditure has been Rupees 659-7-4 during the half-year, and Rupees 7,231-10-6 from commencement up to end of 1874. Under recent orders the whole area will probably be claimed by the adjoining Wurgdars.

30. Malabar.—*Nelambur.*—Seventy-three acres have been planted during the half-year (making 200 acres during the year 1874), at a cost of Rupees 1,586-4-0. Receipts during the half-year, Rupees 2,060-9-8.

In order to arrive at correct conclusions as to cost of these plantations, I request permission to include the original purchase money of the land, amounting, I believe, to Rupees 94,000, in the expenditure.

Mr. Stanbrough appears to have carried on operations satisfactorily.

31. *Palghaut.*—The expenditure incurred on account of the Noochipully and Pooliampully plantations, amounting to Rupees 3,858-14-0, is retained in the totals of expenditure, although the plantations have been merged in the Chenat Nair Forests, in accordance with Board's Proceedings, No. 180-2,732, of 23rd September 1874. If the Board do not approve of this course, I request permission to write off the amount.

Firewood Reserves.

32 Cuddapah.—*Baulpully No. I.*—The Deputy Conservator states that in consequence of the addition of a large tract of hill forest and low land, east, west and south of the old reserve, the estimated area has been increased from 1 to 2,000 acres. Mr. Yarde informs in his report that the fencing of the Reserves Nos. I., II. and III. is in progress, but does not give the extent completed up to end of half-year.

Codoor Hill, No. IV.—It appears from the Deputy Conservator's report, that fencing progressed a little, and has come to a stand-still at the boundary of the Vellalavarikadu Shotriemdars, which prevents the completion and amalgamation of it with the preceding Reserve No. III.

Yerragoonta Cottah No. V., Thunnakondah No. VI., and Vakatçekondah No. VII.—It is stated that fencing was completed in September and November 1874, the estimated areas of the reserves are 3,000, 600, and 3,000, respectively.

Gathalla and Nukapuilly, No. VIII.—It is stated in the report that fencing is in progress, but the extent which was completed up to end of half-year is not given.

(1.) The columns stocked, &c., in Cuddapah District are again omitted, *vide* last general report, paragraph 70.

(2.) The total expenditure for the half-year is Rupees 7,428-5-10 against Rupees 542 last half-year. Expenditure from the commencement is Rupees 10,873-6-9.

(3.) There seems to be an addition of three new reserves this half-year. Receipts *nil.*

33. North Arcot.—(1.) There is a discrepancy of Rupees 10 in the total expenditure as shown in last half-year, and the same brought forward this half-year, which has been rectified.

(2.) The expenditure during half-year is Rupees 295-2-0, and total expenditure from the commencement Rupees 2,654-6-5.

(3.) The last column of results was shown in last half-year as 2,000 acres, which is now omitted; it is included in the general report pending explanation.

(4.) The returns for Jungle Conservancy are submitted separately without review, *vide* paragraph 12 of the last general report.

34. South Arcot.—(1.)—Kottaman—ham was shown in last report just below Moottacadoo, which order has not been preserved in this rt.

(2.) In last year's general report it was shown that 14,000 acres are classed as stocked which ought to be 14,100.

(3.) The expenditure from comm— is Rupees 8,225-12-8; during the half-year Rupees 1,244-14-0. The receipts during the half-year were Rupees 130-9-0, and up to end of half-year Rupees 529-5-4.

(4.) In the last column of results the number of acres was shown in last half-year as follows:—

Gungavarum	6000 acres.	This has been omitted in Mr. Woolridge's report for the half-year under review.
Peringulathoor	800 ,,	
The Cusba Reserve.	400 ,,	

35. Trichinopoly.—(1.) Figures not correctly posted.

(2.) The area stocked, &c., in Stripurandum Reserve differs from that exhibited last half-year, *i. e.*, 463 in this report and 476 in last. There is a difference of 13 acres, for which no explanation is afforded.

(3.) Against Lalapett Reserve, Rupees 2,507-1-2 is entered under the total expenditure up to commencement of half-year, instead of Rupees 2,476-13-3 as per last half-yearly report.

(4.) Under Stripurandum, Rupees 16-4-0 are shown as expenditure up to the commencement of half-year, which ought to be Rupees 15-11-0 as per last report.

(5.) Gross expenditure up to the end of half-year, Rupees 4,768-9-8; during this half-year Rupees 864-2 6. Receipts during half-year, Rupees 34-8-0 (from Lalapett Reserve), and up to end of half-year, Rupees 750 2-2.

36. Tinnevelly.—No return received, consequently parts of Columns Nos. 8, 9 and 10 left blank.

37. Coimbatore.—*Mettapoliem.*—(1.) The Deputy Conservator gives the estimated area in square miles, which have been reduced to acres to secure uniformity.

(2.) The total expenditure up to the end of half-year is not shown in the Deputy Conservator's report. Expenditure during half-year for the three reserves known as H. K. and M. is Rupees 70-8-0, and total expenditure up to the end of half-year, Rupees 2,130-14-0. Receipts during half-year from M. Reserve are Rupees 70-0-0.

Sholakurray Reserve.—(1.) Particulars of acres stocked, &c., are not definitely shown, consequently they were brought under Half-stocked, *vide* paragraph 70 of the last general report.

(2.) The designation of the above reserve was altered from Walliar to Sholakurray—(*vide* Board's Proceedings, No. 36/602, dated 12th March 1875).

(3.) The total expenditure for the half-year is Rupees 79-11-3, and from commencement up to the end, Rupees 12,695-14-2.

(4.) The figures exhibited under Results are incorrect as compared with those of last half-year. The Deputy Conservator submits separate returns for the Mettapoliem and Bolumputty Reserves. This will not be necessary in future, as the whole will be reserves of the North Coimbatore Range, retaining of course their distinctive name, number or letter.

38. Salem.—(1.) There is some discrepancy under Results with regard to the D. and E. Reserves compared with last half-year's returns. The Acting Deputy Conservator shows number of pits under Casualties, which I don't understand.

(2.) Expenditure during half-year is Rupees 2,551-4-0, and that up to the end of half-year is Rupees 17,827-9-7. Receipts for the half-year Rupees 307-14-1, and up to the end Rs. 683-6-1.

(3.) For the last three reserves in Salem District the results columns have not been filled in. The casualties in the C. Reserve during the half-year appear to have been in excess of the number of trees planted out, which is not encouragi

39. Malabar.—*Palghaut R*
Tahsildar in charge that Rupees
includes the expenditure under "

Varaliputty.—This has been
and the purchase money should, therefore, be shown under Expenditure *during* the half-year and not up to commencement of half-year.

Oolavacode.—The expenditure on this reserve has been included in order to make totals tally with that of last half-year's return. The area which is quite bare of trees is, however, omitted both in the district and general returns.

Gross expenditure in the Walliar Range from the commencement has been Rupees 46,656-6-0, and during the half-year, Rupees 21,870-11-6.

The receipts during the half-year were Rupees 160-8-0.

I have the honor to be,
Sir,
Your most obedient servant,
(Signed) C. WALKER, Captain,
Offg. Inspector of Forests.

Enclosure No. 1.

Abstract.—Report on Plantations in the several districts of the Madras Presidency, for the half-year ending 31st December 1874.

Enclosure No. 2.

Abstract.—Report on the Firewood Reserves in the several districts of the Madras Presidency, for the half-year ending 31st December 1874.

Statement A. showing the extent of existing Plantations (under Imperial Forest Department) in each District, and the Class to which they belong &c., made up to 31st December 1874.

Name of District and Ranges.		Area planted.		Total according to class.					Expenditure.			Receipts			Remarks.
Districts.	Ranges.	Up to commencement of half-year.	During the half-year.	Timber.	Mixed.	Firewood.	Experimental.	Total.	Up to commencement of half-year.	During half-year.	Total.	Up to commencement of half-year.	During half-year.	Total.	
									Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1. Cuddapah ...	Cuddapah ...	792	...	...	...	742	50	792	38,31 12 10	1,055 14 0	39,373 10 10	.....	.....	.....	No returns have as yet been received from Madura and Tinnevelly, the figures for which are therefore those of last report. The expenditure incurred on account of the Amerdy, Noochipully and Pooliampully Plantations, amounting to Rupees 6,506-1-9, is retained in the total expenditure, *vide* general remarks.
2. Bellary ...	Bellary	330	...	...	...	330	..	330	9,18 1 0	98 12 8	9,286 13 8	.....	.....	.....	
3. Kurnool ...	Kurnool	15	...	...	...	...	15	15	1,71 9 0	195 14 9	1,910 7 9	.....	.....	.....	
4. North Arcot.	North Arcot ...	840	144	...	106	878	...	984	27,77 0 4	3,107 3 2	30,879 3 6	386 2 0	1,877 3 3	2,263 5 3	
5. South Arcot.	South Arcot ...	7½	1	...	...	...	8½	8½	46 10 10	24 9 0	493 10 10	.....	.....	.....	
6. Trichinopoly.	Trichinopoly ...	185	188	...	...	373	...	373	19,15 3 9	3,921 11 11	23,079 15 8	1,530 5 1	335 14 9	1,866 3 10	
7. Madura ...	Madura	104⅞	...	...	...	...	104⅞	104⅞	4,3[illegible] 6 10	.....	4,308 6 10	.....	.....	.....	
8. Coimbatore.	Anamallai ...	13	4	...	...	...	17	17	3,0[illegible] 12 11	483 15 0	3,534 11 11	.....	.....	.....	
	Suchiamangalam.	69	4	73	...	...	...	73	11,35[illegible] 3 7	903 4 3	12,260 7 10	.....	.....	.....	
	Collegal	56	4	60	...	...	...	60	11,8[illegible] 4 0	1,443 8 5	13,271 12 5	.....	.....	.....	
9. Nilgiris ...	Mudumallai ...	78	2	80	...	...	...	80	18,91 8 1	1,133 12 0	20,047 4 1	.....	.....	.....	
	Sigur...	20	5	25	...	...	...	25	3,64 14 0	612 0 8	4,258 14 8	.....	.....	.....	
10. Salem	Salem	6½	3	...	...	...	9½	9½	3,66 2 7	517 8 10	4,187 2 5	.....	.....	.....	
11. South Canara.	South Canara ...	75	10	85	...	...	...	85	6,57 3 2	659 7 4	7,231 10 6	.....	.....	.....	
12. Malabar. ...	Nelambur ...	2,990	73	3,063	...	...	...	3,063	2,01,17 10 9	7,336 4 0	2,08,509 14 9	94,318 1 8	2,060 9 8	96,378 11 4	
	Add expenditure of Noochipully.	.....	...	...	...	...	...	...	2,2[illegible] 14 4	.....	2,209 14 4	.....	.....	.....	
	Add expenditure of Pooliampully.	.....	...	...	...	...	...	...	1,6[illegible] 15 8	.....	1,648 15 8	.....	.....	.....	
	Total...	5,581½	438	3,386	106	2,323	204½	6,019½	3,64,9[illegible] 12 8	21,493 5 0	3,86,493 1 8	96,234 8 9	4,273 11 8	1,00,508 4 5	

Ootacamund,
24th April 1875.

(Signed) C. WALKER, Captain,
Officiating Inspector of Forests.

Statement showing the extent of existing Firewood Reserves (unc[illegible]perial Forest Department) in each District made up to 31st December 1874.

Name of District and Ranges.		Area.		Expenditure			Receipts.			Results.			Remarks.
Districts.	Ranges.	On 30th June 1874 as per last report.	On 31st December as per this report.	Up to commencement of half-year.	During half-year.	[illegible]tal.	Up to commencement of half-year.	During half-year.	Total.	Area or number of trees planted out during half-year.	Casualties during half-year.	Area or number of trees which may be considered as stocked or permanently established.	
1. Cuddapah ...	Cuddapah ...	9,230	16,830	Rs. A. P. 3,445 0 11	Rs. A. P. 7,428 5 10	[illegible] A. P. 10,873 6 9	Rs. A. P.	Rs. A. P.	Rs. A. P.	...	...	...	The area shown is for the most part estimated. So far as can be at present ascertained, it may be classified as follows:—
2. North Arcot.	North Arcot...	2,560	2,560	2,359 4 5	295 2 0	2,654 6 5	.....	.....	.....	...	...	2,000 acres.	Stocked... 41,586¼
3. South Arcot.	South Arcot...	40,550	40,550	6,980 14 8	1,244 14 0	8,225 12 8	398 12 4	130 9 0	529 5 4	11,951	8,165	87,996 and 14,100 acres	Half do... 58,888¾
4. Trichinopoly.	Trichinopoly...	2,734	2,721	3,904 7 2	864 2 6	4768 9 8	715 10 2	34 8 0	750 2 2	110,514 10¼ acres	2,793	2,115 acres	Barp ... 3,728
5. Tinnevelly ...	Tinnevelly ...	2,000	2,000	7,055 0 8	.....	7055 0 8	103 11 3	.....	103 11 3	...	...	...	Total... 1,01,202¼
6. Coimbatore..	Mettapolliem.	12,160	12,160	2,060 6 0	70 8 0	2,130 14 0	.....	70 0 0	70 0 0	...	...	...	
	Sholakurray ...	1,010	1,010	12,616 2 11	79 11 3	12395 14 2	559 1 6	.....	559 1 6	2,600	2,600	4,400	
7. Salem	Salem	19,369	19,369	15,276 5 7	2,551 4 0	17827 9 7	375 8 0	307 14 1	683 6 1	11,578	6,043	19,369 acres and 21,953	
8. Malabar ...	Wallier	1,782¼	4,002¼	24,785 10 6	21,870 11 6	46656 6 0	0 8 6	160 8 0	161 0 6	...	...	4,002¼ acres	
	Add expenditure of Oolavacode	....	.....	106 9 1	.....	6 9 1	.....	.....	.....	...	...	...	
	Total...	91,345¼	1,01,202¼	78,589 13 11	34,404 11 1	4 9 0	2,153 3 9	703 7 1	2,856 10 10	1,56,643 and 63¼ acres.	19,601	1,14,349 41,586¼ acres.	

Ootacamund,
24th April 1875.

C. WALKER, Captain,
Officiating Inspector of Forests.

FOREST No. 112.

Proceedings of the Board of Revenue, dated 21st June 1875, No. 1,706.

Read report from the Inspector of Forests on plantations and firewood reserves for the half-year ending 31st December 1874.

Submitted for the information of Government with reference to Board's Proceedings, dated 26th April 1875, No. 1,032.

2. The returns as to reserves and plantations for the half-year ending 31st December 1874 appear to be still very unsatisfactory and inaccurate both as to the actual areas included and the expenditure in past years. The Board have not yet received Captain Walker's remarks on the revised forms proposed by the Board in the Proceedings above quoted.

3. The general results of the half-year under report appear to have been very satisfactory. The area under plantations, owing to certain changes specified by Captain Walker in paragraph 6 of his letter, has fallen from Acres 6,643¾ to Acres 6,019¾, and that under reservation for firewood has increased from Acres 91,345¼ to Acres 1,01,202¼. This is owing principally to the extension of [illegible] in Cuddapah. The Board are not aware the[illegible] (though no doubt desirable and generally app[illegible] 4th August 1874, No. 2,081,) has been formal[illegible] report more in detail on the matter.

4. The area stocked is now estimated at Acres 41,586¼, while Acres 55,888 are entered at half-stocked, equivalent on the whole to Acres 69,585 fully stocked. Captain Walker doubts whether any should be considered as fully stocked, and certainly it seems curious that only 3¾ per cent. of the whole area should be considered "bare." The Board call attention to paragraph 15 in which the result of experimental felling in Salem is given and described as favorable beyond expectation, fifteen tons per acre having been secured without undue clearance. Supposing that the whole area now under reservation were half-stocked, which is probably an extreme assumption, the yield of the reserves would at this more favorable rate be 63,251 tons instead of 53,118 tons as estimated by the Board in their Proceedings, dated 26th April 1875, No. 1,030. But, as the Board have already stated, the estimate of area and stocking is at present very vague, and until the reserves are surveyed, and the revised forms suggested by the Board, or improvements on them, carefully filled in, no exact conclusions as to the value of the reserves can be arrived at. Captain Walker's remarks on the details for each district show how inaccurately the present returns are prepared.

5. The Board are in correspondence with the Collector of Madura as to the measures taken for the formation of firewood reserves in that district.

6. There is apparently some misquotation in paragraph 11 of Captain Walker's letter. The Circular No. 35 quoted appears to be irrelevant.

(A true Extract.)

Acting Secretary.

To the Acting Secretary to Government, Revenue Department,
with printed copies of Inspector's report and two statements and of Board's Proceedings, dated 4th August 1874, No. 2,081, and original enclosures to be returned.
,, the Inspector of Forests, with printed copies of report and two statements.
,, all Collectors in charge of Forests, with do.

Exd. J. W. Fischer.

Proceedings, 21st June 1875, No. 1,706.

Board of Revenue,
MADRAS.

JUNE.
Forest No. 112.

Plantations and firewood reserves—in Madras Presidency.—Report of Inspector of Forests on — for the half-year ending 31st December 1874 submitted for information of Government with remarks, and Collector of Cuddapah directed to furnish a detailed report regarding the extension of reserved area in the district.

1413/14

FOREST No. ~~121~~.

Proceedings of the Board of Revenue, dated 4th August 1874, No. 2,081.

Read the following letter from W. D. HORSLEY, Esq., Collector of Cuddapah, to J. GROSE, Esq., Secretary to the Board of Revenue, dated Codoor, 27th June 1874, No. 145:—

With reference to Proceedings of the Board, No. 948, dated April 22nd 1874, Forest No. 56, I have the honor to explain in connection with paragraph 6 of the Board's order that the establishments employed on the Reddipalle, Pullampett, and Upparapalle Plantations, are entered as hired in the report, because they are maintained from working charges. The establishment on the Kamalapúr Plantation is entered as permanent, because it is paid from the sanctioned Budget estimate under the head "B. Establishment."

2. I believe it will be feasible to increase the reserves. I am now taking steps to add to the enclosures at Salakuntachenu and at Balapalle. The Yerraguntlakota Reserve I hope to enlarge, and I am about to see whether forest in the neighbourhood of Nukanapalle may not be reserved. As I have said before, I believe in the utility of reserves, but I have no faith whatever in Plantations.

3. With reference to paragraph 15, I have to state that to reduce the number of watchers would be a penny wise and pound foolish policy. Because the reserves in this district have been properly watched, they are in their present thriving condition. Immunity from fire, cattle and damage from cattle and tres[illegible]ng, and it is not to be expected [illegible] tigers and cheetahs are known [illegible] disturbed than in the open jungle, with the same ease and freedom as two men. Fires have been as yet unknown in the reserves in this district.

4. In his remarks on the report for the third quarter, ending December 31st, 1873, Captain Walker calls for an explanation in paragraph 6. I have to mention that column 12 is blank, because there were no casualties. The figures 26,249 refers to casualties, which occurred in the previous quarters, and were replaced in the quarter under report.

5. In paragraph 5 regarding the second quarter, ending September 30th 1873, I have to state that if the fuel plantations are included in the area taken up for the purposes of fuel in this district, the area is only short of 20 square miles by 1,488 Acres = $2\frac{13}{16}$ square miles. This deficiency I am now endeavoring to make good.

Communicated to Captain Walker. The Board approve of the two watchers being retained and are well satisfied with what has been done, but hope the reserves may be enlarged to the requisite size at an early date.

(A true Copy and Extract.)

(Signed) J. GROSE,
Secretary.

To the Inspector of Forests.

1874.

BOARD OF REVENUE,

MADRAS.

PROCEEDINGS, 4TH AUGUST 1874, No.

S/2896/75

Received

AUGUST.

Forest No. 121.

Railway Plantations and Rese Cuddapah District.—Explanation of Co. regard to discrepancy pointed out by the ...ctor of Forests in reports on —, for quarters ending 30th September and 31st December 1873, and on the reduction of establishment of watchers, communicated to Acting Inspector of Forests, with remark that Board hope reserves may be enlarged to requisite size at an early date.

7

Revenue Dept.

No. 1413

1413/10

...mbt

Sept. 1875

...ine Plan:

...venue.

5 N. 1706.

REVENUE DEPARTMENT.

No. 2896 & 2860

1413/8

From Bd of Rev. & Collr of Tanjore Dated 21st June 1872

FOR ORDERS.

I Bd. humbly state briefly the areas obtained under each head. Whence that for the corresp. shows that the ob. tain from the Salem returns has erroneously calcul. & that data for estimat the are still the obtained

...ember 2

...5 of the

...on the

...ing:

2. The area of the Plantations is now computed to be acres 6015 5/8, and that of the Reserves

FOR ORDERS.

Plantations and Forest Reserves

30th September and 31st December 1873, and on the reduction of establishment of Watchers, communicated to Acting Inspector of Forests, with remark that Board hope reserves may be enlarged to requisite size at an early date.

Revenue Dept.

No. 1413

1413/10

Proceedings of the Madras Government

Under date the 25 Sept. 1875

Read the Annual Report

of the Board of Revenue.

Asking for information, with remarks, upon the Inspr. General's Plantations & Reserved Forests in Madras Presy. for half year ending 31st Dec/74 &c

M. E. 21: June/75 N. 1706.

The Government considers the results of the half year to be on the whole satisfactory:

2. The area of the Plantations is now computed to be acres 6015 5/8, and that of the Reserved Forests

1413/18

Reserves Acres 101202 1/4
including certain extensions
in Carbonado subject
formally sanctioned —

Since Surveys
can be placed on the
Estimates, letters formed
as to the area and starting
of the Cattle, and subsequent
correspondence between the
Inspector and the Board
has shown that the out-
turn from the Salmon
Reserves was erroneously
calculated.

40

1 To the Board of Nov. 12 1903
1 The Ffg Inspecting Forest

Ffg

No. 2.

Report on Plantations (Surry)
Rivanna, Hardware & Jas Rivers
(2 parcels) 21 Aug 1795

Brent Town

C 15 Aug 95. No. 23 Sept 95