

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No. 1275

Press

~~Mis.~~

223. 224

Dated

10-6-1865.

Not to be folded or roughly handled.

Proceedings of the Madras Government, Revenue Department,
10th June 1865.

No. 223. Read the following Proceedings of the Board of Revenue, dated 2nd November 1864, No. 7,188.

Read again the following letters from R. E. MASTER, Esq., Officiating Director of Revenue Settlement; to W. HUDLESTON, Esq., Secretary to the Board of Revenue, dated Madras, 29th April 1864, and 22nd September 1864, respectively:—

1. Ordered that the foregoing letters be submitted for the information of Government.
2. The Board regret the delay that has occurred in sending up this Progress Report.
3. As on the last similar occasion the Board will briefly recapitulate from the report the operations of the Settlement and Survey Departments, and their results in the year 1863.

4. *Settlement Department, SOUTH ARCOT.*—The settlement of the present Chedumbrum Talook for Fuslies 1271 and 1272, compared with the old assessment in Fusly 1270, was as follows, viz:—

Fusly 1270. Old Settlement.	Fusly 1271. New Settlement.	Fusly 1272. New Settlement.
Rupees.	Rupees.	Rupees.
5,22,576	5,08,015	5,11,426

The amount relinquished under the new settlement was not fully recovered as anticipated by Mr. Master in his last annual report; but it will doubtless shortly be made up to Government by increase of cultivation.

5. *GODAVERY DISTRICT.*—The actual demand under the new settlement in Fuslies 1272 and 1273 in the Western Delta Talooks of this District, compared with the Joint-rents for Fusly 1271, the year previous to the introduction of the new settlement, was as follows, viz:—

	Rupees.
Fusly 1271, Joint-rents	5,71,373
„ 1272 Actual demand under new settlement...	5,82,605
„ 1273 do	6,60,762

The full assessment to be gradually imposed on the lands occupied in Fusly 1273 was estimated to amount to Rupees 6,91,420, or Rupees 1,20,047 in excess of the Joint-rents of Fusly 1271; but the estimate included water-rate erroneously imposed on lands which should not have been so charged, the remission of which rate formed the subject of the Board's Proceedings already submitted to Government, dated 25th February 1864, No. 1,234, and 11th March 1864, No. 1,515, respectively. The corrections of these errors is now being made by the District officers, and will reduce the increase above the Joint-rents.

6. The introduction of the new settlement in Trichinopoly has been commenced under the Government Order, No. 577, dated 5th April 1864. In subsequent Government Orders No. 1,409 dated 6th August 1864, and No. 1,812, dated 30th September 1864 the revised rates for the settlement of four Talooks in the Kurnool District, and for that of the Masulipatam portion of the Kistna District have been approved and are about to be introduced.

7. Mr. Master's preliminary report on the settlement of the remaining portion (Central and Eastern Delta) of the Godavery District is in the Board's Office; but its consideration is deferred pending the receipt of the further report as to the effect of applying the proposed rates to

the true survey areas, which the Board are informed will very shortly be furnished to them by Mr. Master.

8. Proposals for the revision of the assessment in Salem, and in the Guntur portion of the Kistna District, will be submitted as soon as the true survey areas are received in the Settlement Office.

9. DEMARCATION AND CLASSIFICATION.—Demarcation operations were in progress in the Nellore, Kurnool, Trichinopoly, Tinnevely, Coimbatore and Wynad Districts; and Classification and assessment in Kurnool and Trichinopoly. In the Godavery, Kistna and Salem Districts the establishments employed were engaged in the performance of other important duties connected with the Settlement, which will be referred to, more particularly, below.

10. The total work and cost in the year under report compared with the preceding year 1862, were as follow:—

Demarcation, 1862.	
Total Extent.	Total Cost.
Sq. Miles.	Rupees.
6,846	2,17,466
Demarcation, 1863.	
Sq. Miles.	Rupees.
3,742	1,99,765
Classification and Assessment, 1862.	
Sq. Miles.	Rupees.
2,870	1,34,960
Classification and Assessment, 1863.	
Sq. Miles.	Rupees.
1,532	1,16,147

11. The decrease of work in the year is attributed to the facts that large reductions were effected in the establishments; one Settlement party having been dispensed with altogether; that the chief part of the work in Nellore was revision; that the Kurnool party came in from the field in the first quarter, and did not resume out-door work until September, and the Classifiers were employed in only one District (instead of in four as in the previous year) under the gradually extending operation of the rule separating Demarcation from Classification, and postponing the latter operation until the completion of the survey.

12. GODAVERY.—Owing to the survey operations having been concluded, the small Demarcation Establishment retained in the District for connecting defective demarcation, &c., was considered no longer necessary. The temporary establishments employed for the preparation of Settlement Registers had been already considerably reduced, and during the year under report good progress was made with the Registers. The Vernacular Registers, both original and duplicate, have been completed as far as is possible at the present stage for all the villages in the District, and 3 original and 381 duplicate copies in English alone remained to be written. It will still be necessary to retain a small establishment in the District till the settlement is introduced; but its strength and cost will be kept as low as possible.

13. NELLORE.—A fresh area of 641 square miles was demarcated, the total expenditure, being Rupees 44,083, or nearly 68½ Rupees per square mile for the area demarcated; but as demarcation formed but a small portion of the work done in the District which chiefly consisted in clearing jungle, revising old work, settling boundry disputes, &c., the above rate is merely nominal. Excluding the cost of all other work, that of demarcation alone was Rupees 26½ per square mile, which is less than the average cost per square mile of the last four years as shewn in the margin. In several Talooks the work of clearing the boundaries proved very tedious and laborious; the boundary disputes were more numerous and intricate than in any District taken up by the Department; and it was found difficult to induce respectable men to act as arbitrators for their adjustment under Act XXVIII. of 1860, owing to the practice which has sprung up of the unsuccessful parties bringing Civil suits against the arbitrators who may have decided against them.

	Rupees.
1860	5,338
1861	41,038
1862	39,713
1863	44,080
Area in square miles 4,806	1,30,180
Average cost per square mile	27 1 6

14. KISTNA.—No regular field work remained to be done in this District. The field Establishments were employed during the first and second quarter in revising the work already done. A few hands were detached to assist the survey and to explain to the Ryots the village survey maps, &c. The establishments were, however, subsequently reduced. The office Establishment was retained to aid in the introduction of the new Kistna and Kurnool settlements. The vernacular copy of the Settlement Registers in original and duplicate for the Masulipatam portion of the District was completed, and also the original registers for several Talooks of the Guntur portion. The usual extra establishment employed for such work will not therefore be required in these cases to the full extent.

15. KURNOOL.—The remaining field work in the four Talooks of old Kurnool and initial operations in the Koilkuntla Talook were prosecuted for seven months in the year. During the remaining five months the bulk of the establishment was employed on work connected with the introduction of the settlement, &c., and a few hands on the revision of old work. Square miles 659 were demarcated, and the expenditure incurred was 41,341 Rupees the average cost per square mile being 74 Rupees. Square miles 1,523, were classified, and the expenditure incurred was 47,299 Rupees, the average cost per square mile being 31 Rupees. The increase in expenditure (Rupees 88,640) compared with that (Rupees 64,971) of the previous year was caused chiefly by the addition made to the strength of the establishments in order to bring the work to a speedy close.

16. TRICHINOPOLY.—The registers for this District had been almost completed in 1862, but Mr. Puckle's establishment was employed in revising old work, completing the remaining registers, &c.

17. As an illustration of the value of the maps and registers, Mr. Master states that on a recent occasion in the Perambalur Talook, no less than 4,000 Durkhasas were disposed of in a month by two or three Gumasthas placed under Mr. Puckle's orders by the Collector.

18. The expenditure, Rupees 40,132 is large, compared with the amount of actual field work done, viz., 938 square miles demarcated and classified in the Woodiarpolliem Talook; but this disproportion was owing to the cost of the establishment which had to be kept up in order that no time should be lost in introducing the new settlement into the District, the final orders for which were not received until the beginning of the present year.

19.—SALEM.—In this District the original defective demarcation upon which the orders of Government were passed in Government Order, No. 2,293, dated 15th December 1863, was revised during the year under report.

20. TINNEVELLY.—Square miles 1,547 (being fully equal to the estimated standard) were demarcated in Tinnevelly, and the expenditure incurred was Rupees 45,360, giving an average cost per square mile of Rupees 29-5-3, while the cost in the preceding year was Rupees 37-10-11.

21. COIMBATORE AND WYNAAD.—The work in these Districts consisted of demarcation, the extent and cost of which are shewn below for the years 1862 and 1863 :—

ITEMS.	Extent in Square Miles.		Expenditure.		Average cost per Square Mile.	
	1863.	1862.	1863.	1862.	1863.	1862.
	Sq. Mls.	Sq. Mls.	Rupees.	Rupees.	Rupees.	Rupees.
Coimbatore	883	1,085	41,302	38,809	46-12	36
Wynaad	103	73	5,697	7,795	55-7	106

22. The area demarcated in Coimbatore in the year under report was less than that done in 1862, owing to various accidental causes, but in great measure to the jungly and unhealthy nature of the country in which the operations were carried on. There was a marked improvement in the style of the demarcation both of boundaries and fields. Mr. Master inspected a portion of the work, and was satisfied with it. The Acting Deputy Director, Mr. Stuart, to whom Mr. Master refers in paragraph 32, has been since appointed Deputy Collector in Madura.

23. The increase of 41 per cent. in Wynaad was owing to the work having been carried on throughout the year, instead of during only a portion of it, as in 1862. In addition to the demarcation work in the year under report, numerous blocks of waste lands applied for were marked out by the Gumshtas.

24. The demarcation in Wynaad has, since the receipt of the report under review, been made over altogether to the Collector of Malabar under the sanction of Government in Government Order, No. 1,374, dated 2nd August 1864. The Demarcation Establishment has been abolished, and a revised Survey Establishment which is to perform both demarcation and survey work, was sanctioned in the same Government Order.

25. The whole cost of the Settlement operations for the year was Rupees 3,26,607 being Rupees 33,641 less than in the previous year, and Rupees 1,68,467 less than the estimate for 1863.

26. BOUNDARY PILLARS.—In Nellore, Kurnool, Tinnevelly, and Coimbatore the village boundary pillars, as well as the field marks are of stone, the exception being a few pillars in the Kandakur Talook in Nellore which have been built of brick and chunam. In Wynaad, also, rough blocks of granite were used for marks, but in forest lands, large trees where they occur on the line of boundary have been adopted for the purpose and marked with an arrow.

27. The number of villages for which the Survey areas were received by the Settlement Department during the year was, including the additions mentioned in the second letter above recorded, upwards of 1,315, comprising an area of 3,265 square miles.* Besides which, Survey areas were received for three native plantations; ten European estates; thirty-five Government lands; and eleven clusters of properties in the Wynaad.

	Villages.	Sq. miles.
Godavery	809	1,192
Kistna	801	861
Kurnool	60	318
Trichinopoly	11	192
Salem	434	702
Total	41,81	3,265

28. The cost of binding four copies of the Settlement Registers (according to the specimens submitted with the last annual report), and mounting four maps for each village, is estimated at Rupees 2-8-10 per village, which is ten Pice more than the estimate given in his last Report; but Mr. Master does not expect again to obtain so favorable a contract owing to the rapidly rising prices of materials of all kinds.

29. The questions referred to in paragraphs 48 and 49 of Mr. Master's letter, viz., the separation of the demarcation and classification, and the difficulty created by the uncertain position of the Department, are before Government, and call for decision.

30. The Department sustained a heavy loss in the death of Mr. F. W. Morris, one of the Deputy Directors and a most zealous and intelligent young officer, to whose merits full testimony has been already borne.

31. SURVEY DEPARTMENT.—Survey operations were prosecuted in the following Districts in the year under report, viz :—

Madras Town.	Special Party.
Salem.	} Party No. 1.
Including Shervaroy Hills.	
Coimbatore.	
Trichinopoly.	} " 2.
Kurnool.	
Godavery.	} " 3.
Kistna	
Tinnevelly.	} " 4.
Coimbatore.	
Wynaad.	} " 5.
Nellore	

32. The Survey of the town of Madras was completed.

33. Party No. 1 surveyed 655-17 square miles. The expenditure amounted to Rupees 70,173. On the Shervaroy Hills, eighty estates were surveyed at a cost of Rupees 6,743. The Revenue Survey was connected with eight G. T. stations. The average area did not exceed 9-30 feet per mile.

34. In Kurnool, Party No. 2 surveyed square miles 1,078, at a cost of Rupees 59,763, or Rupees 55-6-4 per mile.

35. A small detachment of this party was detained in the Godavery District to complete the Survey.

36. The expenditure of the year in the above District was Rupees 27,970. The estimate formerly submitted for the completion of the District will be exceeded by about Rupees 1,200.

37. The survey of the District has been connected with nine G. T. stations. Seven of the distances have been calculated and compared with the G. T. work. An average area of 9-96 feet per mile is the result.

38. In the Kistna District 1,356 square miles were surveyed by No. 3 Party, at a total cost of Rupees 77,927-8-10, or Rupees 57-7-3 per square mile.

39. Ten of the G. T. stations have been worked up to, and nine of the distances have been calculated; the rate of area varies from 1-54 to 15-79 feet per mile, the average rate being 7-20 per mile.

40. Party No. 4. A detachment of this party was at work in Wynaad, and another detachment was detained at Coimbatore for the completion of the work in the Coimbatore Talook. The remainder of the establishment was transferred with the head quarters from Coimbatore to Tinnevelly.

41. In the seven months that the reduced establishment was at work in Tinnevely, 434 square miles were surveyed, at a cost of Rupees 30,445-5-4, or Rupees 70-2-5 per square mile.

42. The detachment in Wynad surveyed, during the first quarter of the year, twenty-five Estates comprizing an area of 3-15 square miles, at a cost of Rupees 1,712-10-4. In October nine other Estates which were left unfinished during former operations were completed at a cost of Rupees 1,197-3-8.

43. The disappearance of the boundary marks is alluded to by Colonel Priestley as causing great difficulty. Mr Master observes that in Wynad it is difficult to maintain such marks which are not unfrequently thrown down by wild elephants, and in the preservation of which the proprietors of Estates appear to take no interest.

44. No. 5 Party in Nellore. The total area measured was 830-03 square miles, at a cost of Rupees 66,362-10-11, or Rupees 79-15-7 per mile.

45. Colonel Pestley alludes to the delay caused by the recall of Surveyors and others to survey in detail waste numbers in villages completed a considerable time before. The Board have been in correspondence with the Collector on the subject.

46. The work in Nellore has been connected with two G. T. stations, and the average area is 2-36 feet per mile.

47. The Lithographic press printed 54,080 copies of 1,690 village maps, comprising an area of 3,159 square miles, also two Talook and Hydrographic maps. The expenditure amounted to Rupees 8,445 on account of Village maps, and Rupees 769 on account of Talook maps. The cost of lithography per mile was Rupees 2-10-3, which rate is less than that of former years.

48. The general results of the year in the Survey Department were briefly as follow.

49. The total extent measured was 4,763-89 square miles, and the total expenditure incurred, including all charges, was Rupees 4,16,645-4-10, being at the rate of Rupees 87-7-0 per square mile on the whole area surveyed. The share of the Central Office in the above rate was Rupees 6-5-10 per square mile, the expenditure connected with it amounted to Rupees 30,327-4-8.

50. The above rate of Rupees 87-7-0 exceeds the estimated rate by Rupees 7-7-4; but much exceptional work was included in the out-turn of the year.

51. The following Statement of actual average cost per square mile is submitted in correction of previous calculation.

	Area Square mile.	Cost per mile.
Tinnevely, three Talooks	...	...
Salem, two Talooks	...	...
Godavery District	...	...
Kistna, three Talooks	...	...
	1,597-5	89
	705-5	11-0
	3,392-0	9-5
	1,274-0	98

52. In Salem, one of the Talooks was exceptionally expensive. The Godavery and Kistna Survey areas include delta lands which are necessarily expensive.

53. The Revenue Survey has been connected with twenty-nine G. T. stations. The average area was 8-22 feet per mile.

54. The Board consider the progress and operations of the year to be very creditable to the Officer of the Survey and Settlement Departments.

No. 224. ORDER THEREON, 10th June 1865, No. 1,275.
Land Revenue.

Ordered to be recorded.

(Signed) J. GROSE,
Acting Under Secretary to Government.

From R. E. MASTER, Esq.,
Officiating Director of Revenue Settlement,
To W. HUDLESTON, Esq.,
Secretary to the Board of Revenue.

SIR,

Opening remarks.—1. I have the honor to make the usual Report on the progress of Settlement operations during the year 1863, and to forward a Report from the Superintendent of Revenue Survey on the work accomplished by his Department during the same period. The submission of this Report has been delayed somewhat beyond the usual date, partly owing to my absence last month in the Godavery District, and partly owing to the late receipt of the annual Report of the Trichinopoly party, which could not be sent in till the Deputy Director's return from privilege leave.

Result of the new Settlement in the Chidambaram taluk of South Arcot.—2. The villages in the Chidambaram taluk of South Arcot affected by the new Settlement were settled for Fasly 1272 at Rupees 5,11,426. This sum, though Rupees 3,411 in excess of the Settlement of Fasly 1271, is still Rupees 11,152 below that of Fasly 1270, the year before the one in which the new Settlement was introduced. The anticipation expressed in paragraph 2 of my last year's Report, that the decrease would altogether disappear, has thus not yet been fully realized; but I still hope that the deficiency will ere long be made up by increase of cultivation.

Result of the new Settlement in the Western Delta taluks of the Godavery District.—3. At the close of paragraph 3 of my last year's Report, I stated that a considerable further increase of revenue might be expected in the Western Delta taluks of the Godavery District in Fasly 1273, and the result has justified the anticipation. The joint rents for Fasly 1271, the year before the introduction of the new Settlement, were Rupees 5,71,373. The demand for Fasly 1272 was Rupees 5,82,605, and that for Fasly 1273 Rupees 6,60,762, while the eventual full demand on the lands occupied in Fasly 1273, when the indulgence granted to the Ryots of paying their increased assessment gradually shall cease to have effect, will amount to Rupees 6,91,420. The actual demand for Fasly 1273 is therefore an increase over that of Fasly 1272 of Rupees 78,157; an increase over the joint rents of Fasly 1271 of Rupees 89,389, while the eventual full demand on the land now occupied will be Rupees 1,20,047 in excess of the joint rents of Fasly 1271.—

4. It is at the same time only right to mention that this large increase will suffer temporary diminution, owing to the remission of water rate now being granted under the Board's Orders

Proceedings 25th February, 1864, No. 1,234.
Do. 11th March 1864, No. 1,313.

quoted in the margin. The Board are aware of the circumstances under which the erroneous

entries in the Settlement Registers were made, and have already absolved this Department from blame in the matter. The Deputy Director was instructed to enter as wet, all lands that had at any time received water since the construction of the Anicut, and those instructions were carried out on the best information procurable. The water rate rules as originally proposed have already undergone modifications which have removed much of their stringency, and if the

21th November 1863, No. 81.

Orders of the Secretary of State, contained in the Despatch marginally noted, giving to the

Ryots the option each year of taking or declining water, are declared applicable to the tracts irrigated from the Godavery Works, all semblance of harshness will be done away. there can be no doubt that much land has been relinquished owing to the severity of the rules as hitherto applied; and I am glad to think that whatever amount is now forgone in the shape of water rate, will be in a short time more than made up by the resumption of the land formerly relinquished, as well as by the extension of cultivation in waste lands.

Introduction of the New Settlement in Trichinopoly.—5. The circumstances which have delayed the introduction of the new Settlement in the Trichinopoly District are well known to the Board and Government. The final Orders of the Home Government having now been received and communicated in the Proceedings of Government noted in the margin, no time will be lost in carrying them out. The Deputy Director has proceeded to Trichinopoly, and is engaged in making the necessary preliminary arrangements. Every effort will be used to ensure the accomplishment of the wish of the Government that the new rates may take effect from the commencement of the coming Faisy (1274)

Proposals for the Settlement of other Districts.—6. The papers connected with the proposal for the revision of Assessment in the Marulipattam portion of the Kistna District, submitted by the Board with their Proceedings of the 23rd December last, No. 8,139, await the Orders of Government. A proposal for the Settlement of Kurnool Proper was submitted to the Board on the 27th October 1863, and is now under their consideration. The disposal by the Board of the Report on the Settlement of the remaining portion of the Godavery District is deferred pending the receipt of Statements of financial results based on true Survey areas. These Statements are now in active preparation in this office, the necessary information having been furnished by the Survey Department. The proposals for Salem, and for the Guntur portion of the Kistna District, will not be submitted till the receipt of true Survey areas admits of reliable Statements being framed.

Scene of operations during the year 1863.—7. The regular field work (demarcation and classification) in the four taluks of Kurnool Proper was brought to a close during the year, and operations were extended to the Koilkuntla taluk of the same District, and subsequently to the northern taluks of Cuddapah, under the orders of Government marginally noted. The demarcation of the remaining Government lands in the Wynad was continued, and demarcation was also in progress in the three Districts of Nellore, Coimbatore, and Tinnevely.

8. The Statements in Appendix A show in detail the out-turn of work in the several Districts, and the expenditure incurred during the year. The following is an abstract of it, exhibiting the results at one view contrasted with those of the preceding year.

Names of Districts.	DEMARCATON.						CLASSIFICATION AND ASSESSMENT.					
	Extent in square miles.		Expenditure.		Average cost per square mile.		Extent in square miles.		Expenditure.		Average cost per square mile.	
	1863	1862	1863	1862	1863	1862	1863	1862	1863	1862	1863	1862
Godavery...	Sq. miles	Sq. miles	Rupees	Rupees	Rs. A. P.	Rs. A. P.	Sq. miles	Sq. miles	Rupees	Rupees	Rs. A. P.	Rs. A. P.
Nellore...	641.39	1739.79	44,053	39,713	65 11 6	22 15 4	...	...	10,303	12,433	...	...
Kistna...	...	1415.93	8,565	35,482	...	24 8 7	...	...	...	...	...	...
Kurnool...	658.97	1777.22	41,341	48,904	73 18 4	25 13 3	1522.85	1106.48	18,549	38,106	...	25 8 1
Trichinopoly...	9.36	78.12	136	2,792	...	...	...	1212.74	47,229	19,007	31 0 11	15 5 6
Salem...	...	17.66	12,940	22,337	...	...	9.36	58.59	39,956	32,445	...	...
Tinnevely...	1846.60	636.77	45,360	24,070	29 5 3	37 10 11	...	72.56	...	32,846	...	...
Coimbatore...	883.06	1084.67	41,302	38,609	46 18 4	38 0 11	...	...	...	...	...	...
Wynad...	102.70	73.40	5,697	7,795	55 7 7	106 3 2	...	...	...	...	...	...
Total...	3742.16	6845.96	1,99,785	2,17,466	...	...	1832.26	2870.67	1,10,147	1,34,961	...	...

9. It will be seen that compared with the previous year's work, the falling off both in the area demarcated and in that classified is considerable. The decrease will not excite surprise when it is remembered that large reductions have been effected in the establishments, one Settlement party having been done away with altogether; that in Nellore the chief part of the work of the year was revision; that the Kurnool party came in from the field in the first quarter and did not resume outdoor work till September; and that under the gradually extending operation of the rule separating demarcation from classification, and postponing the latter operation till the completion of the Survey, Classifiers were employed in only one District in 1863, instead of in four as in 1862. The reasons why the expenditure has not decreased in proportion to the diminished area of work, will be explained in the sequel, when I come to describe in detail the progress of the operations in the several Districts.

Godavery.—10. The small party employed in the Godavery District was superintended during the year 1863 in the same way as in the preceding one, as described in paragraph 9 of last year's Report. The survey operations having been brought to a close, the small demarcation establishment retained there for the correction or restoration of defective demarcation, and for the completion of the boundaries of villages in which disputes remained unadjusted, will be dispensed with. In addition to performing the above work, it has hitherto been usefully employed, at the requisition of the Revenue Authorities, in demarcating in detail waste lands newly taken up for cultivation and in other miscellaneous work. The temporary establishments employed for the preparation of Settlement Registers have already been considerably reduced.

11. The small office establishment retained under the Inspector was employed with the extra servants in completing the Settlement Registers for the villages in the Central and Eastern Delta and Upland taluks. During the year under report 3 original and 213 duplicate copies in the Vernacular, and 287 original and 156 duplicate copies in English, were prepared; the columns of Assessment being for the present left blank. The Vernacular Registers, both original and duplicate, have now been completed as far as is possible at the present stage, for all the villages in the District; and 3 original and 381 duplicate copies in English alone remain to be written.

12. The expenditure, owing to reduction of establishments, has been less than in the previous year by Rupees 2,233. As stated in last year's Report, a considerable portion of the expenditure is properly debitable to the separate estimate for the preparation of Settlement Registers, though, in consequence of there being a sufficiency of funds under the head of ordinary establishments, it was not necessary to trench upon the separate sanction. The expenditure includes also the cost of Superintendence and a proportion of the Central Office charges. It will still be necessary to retain a small establishment in the District till the Settlement is introduced; but its strength and cost will be kept as low as possible.

Nellore.—13. In Nellore only 641 square miles of fresh demarcation were accomplished; and this area nearly completes the District. It is however very far from representing the total real work performed during the year. For the reasons detailed in paragraph 13 of the Report for last year, the work of marking survey stations and clearing jungle in the taluks previously demarcated, was continued throughout the year, and the opportunity was at the same time taken thoroughly to revise the previous field demarcation. Wherever the marks formerly set up were found to be defective, they have been renewed; earthen marks have been replaced by stone; small stones by large ones; and the demarcation in fact made really substantial, and I hope lasting. In several taluks the work of clearing the jungle proved very tedious and laborious. The boundary disputes have been more numerous and intricate than in any District as yet taken up by the Department, and latterly, it has been found difficult to induce respectable men to act as arbitrators for their adjustment under Act XXVIII of 1860, owing to a practice which has sprung up for the unsuccessful parties to bring Civil suits against the arbitrators who may have decided against them. The Assistant Director in charge of the party has had moreover to contend against continued apathy and indifference on the part of the villagers, which rendered

the extensive exercise of the powers granted by the Act necessary, and in one instance against the positive opposition of a Tahsildar. (This was brought to the Collector's notice.) Had it not been for Mr. Rundall's unwearied energy and activity, the accomplishment of what has been done would have been impossible.

14. Adverting to Colonel Priestley's remarks in paragraph 72 of his Report, I may observe that the circumstance of some boundary disputes remaining for a long time unsettled, although it no doubt impeded the survey, was unavoidable, and forms no ground for imputing blame to this Department. No less than 113 disputes were adjusted during the year. The reason why a portion only of the Striharikotah villages was handed over to the Survey, was that the Records of all the villages of that tract, the demarcation of which had proved more than usually difficult and intricate, had not been received by the Assistant Director when the Deputy Superintendent applied for them. The latter officer was accordingly furnished with as many as were ready at the time, and the remaining villages were handed over a month later.

15. The repeated calls for the survey of waste fields in completed villages, alluded to by Colonel Priestley, were owing to requisitions by the Revenue Department for the demarcation of new fields in large blocks of waste, which at the original demarcation it had not been considered necessary to mark out in detail, but for which Durkhasts had subsequently been received from the Ryots. The measures proposed, to reduce, as far as possible, the extra labor imposed on the Survey and Settlement Departments by these requisitions, will be found in the correspondence submitted to the Board with my letter of the 24th March last, No. 344.

16. The expenditure of the year amounted to Rupees 44,053 against Rupees 39,713 in the preceding year. The increase is owing to establishments of enlarged strength having been employed to ensure the more rapid completion of the District. The sum of Rupees 63-11-8, entered as the cost per square mile of the demarcation in 1863, is only nominal, as it results from the total expenditure of the year being distributed over the comparatively small area of now demarcation; the bulk of the work having been, as already stated, revision. If the expenditure on the last head is excluded, the cost per square mile is reduced to Rupees 26-2-1. The entire cost of the demarcation from the beginning has been Rupees 27-1-5 per square mile as shown in the margin, which must be considered moderate, and even this sum would have been reduced had classification and demarcation been simultaneously conducted.

Yearly.	Rs.
1860.....	5,329
1861.....	41,056
1862.....	39,713
1863.....	44,053
Area in square miles 4.806	1,30,130
Average cost per square mile...	27-1-5

Kistna.—17. The demarcation and classification of this District having been completed in 1862, no regular field work was performed during last year, and consequently there is no area over which to distribute the expenditure which has been incurred amounting to Rupees 27,114. It will be in the recollection of the Board that in my letters of the 22nd September 1862, and the 5th January 1863, Nos. 1,241 and 2, submitted to Government with the Board's Proceedings of the 23rd October 1862 and 7th January 1863, Nos. 7,015 and 75 respectively, I requested instructions as to the future destination and employment of the party, as it was ready for transfer to a new District at the close of 1862. No orders having been received on the above letters, I was prevented from employing the party in the usual manner in the field during the whole of the first and for half of the second quarter. I determined at length, with the view of avoiding the large expenditure which was being incurred each month without return, to reduce the establishments in anticipation of the Orders of Government, and the reduction was effected by dispensing with the services of the most inefficient men in the field branches of both the Kistna and Kurnool parties; their united strength being reduced to that of one party. The European Assistants attached to the Kistna party were transferred to Kurnool, and the Office establishment was retained,

with a view to its services being made available for the introduction of the new Settlement in the two Districts of Kistna and Kurnool, when the office establishment attached to the amalgamated party should have accompanied it into Cuddapah. These measures were reported in my letter to Government of the 19th June 1863, No. 759, recorded in the Board's Proceedings of the 3rd July following, No. 4,023. During the first and second quarters, endeavours were made to utilize the field establishments as far as possible by employing them in miscellaneous work in office and in the field. Doubtful classification was examined and corrected; demarcation, where necessary, revised and restored. A few hands were detached to assist the Survey, and a party was sent to itinerate the villages to show the Ryots specimens of the village Survey maps, and to ascertain the number of copies which they would require.

18. In office, besides preparing various important accounts connected with the Settlement, the establishment was chiefly employed in writing the Settlement Registers, the vernacular copy having been completed as far as is at present possible, in original and duplicate for the Masulipatam portion of the District, and originals also for several taluks of the Guntur portion. The expenditure of the year amounted to Rupees 27,114. This is very much less than in the previous year, in which the outlay was Rupees 73,648. The decrease is of course owing to the reduction effected in the establishment, and to the transfers of officers and servants to Kurnool; but had I been able to effect the reductions and make the transfers earlier, the decrease would have been still greater. Though it must be admitted that a large portion of the expenditure of the year has been incurred without adequate return, it has not been altogether unproductive. The extra establishment which under ordinary circumstances would be hereafter entertained to write the Settlement Registers will be to a certain extent dispensed with. It is true that such extra establishment would have cost less than the more highly paid agency engaged in the work; but it was better to employ the latter in this way than to leave them idle.

19. The Board will observe that the Kistna demarcation, executed under the orders of the late Mr. Morris, has given general satisfaction to the Survey Department. It seems that the introduction of Puntas in some villages after the completion of the demarcation and survey has caused some delay. I have no reason to suppose that the cases alluded to by Colonel Priestley in paragraph 42 have been numerous, as, with the exception of the notice of the matter in his Report, I have received no communication from him on the subject. It is to be regretted that the marks in the sandy villages on the Sea Coast of the Kistna District should be disappearing; but this is inevitable in a tract entirely destitute of stone, and to which stone cannot be brought from any thing like a reasonable distance.

Kurnool.—20. At the commencement of the year, establishments of unusual strength were engaged in the vigorous prosecution of the remaining work in the four taluks of Kurnool Proper; and field operations were brought to a close by the end of March. As explained in paragraph 18 of last year's Report, the party had worked through two seasons without any recess, and consequently, on the completion of the District, became entitled to a double recess of four months, which was accordingly taken during the hot season. In this interval the Records of the previous two years' work were scrutinized, and the Settlement Report with its various accompanying Statements drawn up by the late Deputy Director. The recess virtually lasted five months, the order of Government sanctioning the taking up of the Koilkuntla taluk, formerly belonging to Cuddapah, but recently transferred to the Kurnool District, not having been passed till the 3rd September. On again taking the field, the operations were much impeded by a very heavy burst of the monsoon. The circumstance of field work having been carried on during only seven months out of the twelve sufficiently accounts for the diminished out-turn of the year.

21. During the recess, the bulk of the establishment was employed in preparing the various Statements for the Settlement Report and other accounts preparatory to the introduction of the Settlement. They were also engaged in entering the Survey areas in the Classification books;

writing up rough Settlement Registers; preparing Accounts of single and double crop lands; and copying field sketches, &c. A few hands were also employed in the re-examination of classification.

22. I observe that Colonel Priestley speaks of defective demarcation, and of revision rendered necessary by the Irrigation Company having taken up more land than was originally allotted to them. This revision was of course unavoidable. As regards the erroneous demarcation, Mr. Cox reports, that it was discovered chiefly in the villages bordering on the Nallamalla Hills which are feverish and unhealthy. In the Sirwell taluk, stones are said to have been found wanting in a few villages; but except where extensive corrections were necessary owing to alteration in the line of the Canal, or of the high road from Nandial to Cuddapah, it appears that the maximum number of stones wanting did not exceed 3 per cent., and generally was not more than 1 per cent. Punishments have been inflicted on the servants responsible for the errors and defects complained of.

23. The expenditure of the year amounted to Rupees 88,640 against Rupees 64,971 in the previous one. The increase is owing to the transfer to Kurnool with their establishments of the Assistant Directors from the Kistna District; to the allowance in arrears amounting to Rupees 4,788 paid to the estate of the late Mr. Morris, under the Government Order noted in the margin; to arrears of office allowance disbursed to Major Smith; and to the cost of enlarged establishments employed for the more speedy completion of the District.

Trichinopoly.—24. Though the Registry of the District had been almost completed in 1862, Mr. Puckle managed to keep his establishment employed during the past year. They were engaged in writing up the remaining Registers; in preparing Puttahs; and correcting both Registers and Puttahs so as to correspond with the Curnums' Accounts for Fasly 1272. The names of sub-tenants and mortgagees hitherto borne in the Curnums' Accounts, and in the first instance copied into the Registers, have been as far as possible erased; the names of the actual proprietors being substituted for them. Joint Puttahs have been sub-divided on the application of the parties; the entries of wet and dry have been again scrutinized; and any errors in classification that could be discovered have been corrected. Mr. Puckle states that he has gone over many villages with the Registers and Maps, and has found the classification accurate; the Survey fields being readily distinguishable by reference to the Map. He mentions as an illustration of the value of the Maps and Registers that on a recent occasion in the Perambalur taluk, no less than 4,000 Durkhasts, were disposed of in a month by two or three Gumastahs placed under his orders by the Collector; whereas under the system hitherto in force, the work would have required the undivided attention of the whole taluk establishment for at least a year.

25. 6,000 acres were demarcated and classified in Woodiarpoliem, and nearly the whole of the areas of the villages recently surveyed have been received from the Survey Department.

26. The expenditure of the year is large, considering the very small amount of actual field work; but the Board and Government know why it has been incurred. For months, the Orders of Government on the Settlement were expected to be received at any moment; and the establishment was kept in readiness that those Orders, when received, might be immediately carried out. The expenditure includes a proportion of the Deputy Director's salary, and the allowances of an Assistant Director drawing the Regimental pay of a Captain in addition to the salary of his grade.

Salem.—27. In consequence of the complaints of the Deputy Superintendent of Revenue Survey, Lieutenant Stuart was deputed in April to re-demarcate certain villages, and to afford such assistance to the Survey Department as they required; afterwards a larger party was detached and continued to be employed in the revision of demarcation till the end of the year. The chief cause of complaint was, that the villages were not sub-divided into Khandams in accordance with the rules, and that consequently no error in the Survey could be detected without

a re-measurement of almost every field. It is unnecessary for me here to re-enter on the causes of the defective demarcation of the Salem District; the subject having been fully discussed and reported upon in the Annual Report for 1862 and subsequent communications, and having been disposed of by Government in their Order of the 15th December last, No. 2,293.

28. On the Shevaroy Hills, the non-residence of landlords; scarcity of labor; the rugged nature of the ground, &c., are reported to have been the chief causes of the defective demarcation alluded to by the Superintendent of Revenue Survey; and Mr. Puckle states that Lieutenant Stuart did what he could with the scanty means at his disposal to aid the survey and to correct the faults complained of.

29. The expenditure of the year was Rupees 12,840 against Rupees 53,183 in 1862. The decrease is owing to the transfer of establishments to other Districts; the work having been confined to demarcation; all classification having been completed in 1862. The expenditure would have been still less but for the employment of an Assistant Director belonging to the Staff Corps, and drawing Military allowances in addition to his salary as an Assistant.

Tinnevely.—30. In Tinnevely, the estimated standard has been fully attained; the area demarcated being 1,547 square miles against 639 in the previous year. This large increase of out-turn is owing to the work having been carried on throughout the year; whereas in 1862 operations extended over six months only. Mr. Puckle reports that the work inspected by him was very good; both field and village boundary marks consisting entirely of upright stones; and he explains with reference to Colonel Priestley's remarks on the errors in demarcation, that in many villages, in the Tenkasi and Ambasamudram taluks especially, the Department had to contend against the apathy of the wealthy Mirasidars, who were not only opposed to the demarcation, but generally also at feud among themselves. They refused to render aid, and in consequence, it appears that in some instances, the demarcation Gumastahs satisfied themselves with marking out the ground with pegs and reporting the village finished, when many boundary marks had not been erected. On these circumstances being communicated to me, the necessary instructions were issued for the coercion of the offending villagers, and for the due punishment of the demarcation servants who might be found guilty of neglect or fraud; many dismissals have taken place, while others have been punished by suspension or fine. I believe that these measures have not been without effect. The later accounts of the work are more promising, and from the absence of further complaints from the Survey Officers, I am led to hope that there is no longer ground for them.

31. The cost per square mile is less than in 1862. In that year the expenditure was incurred for six months only; while in 1863 it is spread over the whole year.

Coimbatore.—32. In Coimbatore, the area demarcated shows a falling off of about eighteen per cent., when compared with the previous year's work. The Acting Deputy Director attributes the diminution to the difficulty experienced in replacing the numerous servants who were dismissed for misconduct, and to the smaller out-turn accomplished by the newly entertained hands while they were learning their duties. The work was also impeded by the jungly and unhealthy nature of the country in which the operations were carried on, and by the attendance of the village officers being simultaneously required by the ordinary Revenue Department and by the Inam Commission, as well as by the Settlement Department. I believe, however, that, notwithstanding the diminished area, quite as much real work has been performed as in the previous year. There has been a marked improvement in the style of the demarcation, both of boundaries and fields. More care has been taken to ensure the actual presence on the ground of the marks shown in the plans; and in fact quality has not been sacrificed to quantity as was formerly too much the practice. In February, I inspected a portion of the later work of the party, and was satisfied with what I saw. The Acting Deputy Director is unfortunately physically unequal to bear the fatigue and exposure which the charge of the party involves, as reported to Government in my letter of the 18th February last, No. 252.

33. The increase in the cost of the work during the year is attributable to the comparatively small area operated upon; to the debit to the party of the Civil Staff pay and Regimental allowances of a Military Assistant Director who was sent to take the place of the Acting Deputy Director while absent on privilege leave for three months; and to higher rates of pay having been in some instances given to certain subordinates.

34. An increase of 40 per cent., is observable in the year's out-turn in Wynad. This is owing to the work having been carried on throughout the year; whereas operations were in progress during a portion only of 1862. The usual difficulties affected the work; viz., sickness, heavy rain, and the scarcity of labor. In addition to the area entered against this party, numerous blocks of waste land, applied for by individuals under the rules recently sanctioned, were marked out by the Gumastahs. The Board are aware that by an arrangement with the Collector of Malabar, the supervision of the party has been made over to the Deputy Collector in the Wynad, and I have since recommended that all the remaining demarcation in the taluk should be transferred altogether to the ordinary Revenue Department. This proposal has been referred to the Collector of Malabar for report.

Proceedings of Government 27th January 1864, No. 146.

35. Referring to the disappearance of boundary marks, alluded to by Colonel Priestley, I can only observe that in a country like Wynad it will always be very difficult to maintain them, unless much larger and more expensive marks are used than have hitherto been adopted. Mr. Stuart states that the boundary stones are not unfrequently thrown down by wild elephants, and the proprietors of estates appear to take no interest in their preservation.

36. The expenditure is smaller than in the previous year, owing to a portion only of the Acting Deputy Director's salary and allowances, and of the pay of his office establishment having been debited; whereas in 1862, the whole salaries of both were for three months exclusively debited to the Wynad.

37. The following Statement shows the total expenditure of the year compared with that of the previous one and also with the sanctioned amount. The figures include the various items entered in the Budget Estimate for 1863-64 of the Department, as well as those sanctioned by Government during 1863 on account of office allowance to Assistant Directors, and double extra tentage to the late Mr. Morris, &c., &c.

Districts.	Sanctioned amount.	Actual expenditure in 1862.	Actual expenditure in 1863.	Difference between Columns 2 and 4.	Difference between Columns 3 and 4.
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Godavery...	74,858	9,946	8,548		
Nellore...		82,035	36,175	- 30,135	+ 2,742
Kistna...	1,72,324	62,533	22,619	- 65,762	- 13,003
Kurnool...		54,032	60,943		
Salem...		49,510	11,555	- 29,774	- 13,876
Trichinopoly...	1,18,225	31,382	36,696		
Tinnevely...		21,435	40,200		
Coimbatore...		30,839	34,767	- 22,387	+ 3,335
Wynad...	62,251	5,890	5,097	- 17,409	- 12,839
Central Office...	67,506	62,936	50,097		
Total...	4,95,164	3,60,338	3,26,697	- 1,68,467	- 33,641

It will be seen that the expenditure of the year is 1,63,467 Rupees below the amount sanctioned, owing to the reduction in the number of the working parties; to other parties not having been maintained at full strength; and to the saving effected in the Central office charges by the Office of Director having been kept vacant from the date of Mr. Newill's transfer to the Godavery Collectorate.

Erection of boundary pillars.—38. Statement B in the Appendix shows, in detail, the number of boundary pillars constructed in the several Districts during the year. The following is an abstract of it:—

Items.	Total.
<i>Village boundaries.</i>	
Villages...	1,072
Khandams or Sub-divisions...	7,210
Tri-junction pillars...	7,079
Secondary pillars...	26,723
Other marks on village boundaries...	53,867
Marks on Khandams...	86,945
<i>Field boundaries.</i>	
Number of villages...	1,059
Villages divided } No. of villages...	873
into Khandams. } No. of Khandams ..	8,397
Number of fields marked...	4,26,903

39. In Nellore, with the exception of a few pillars in the Kaudakur taluk which have been built of brick and chunam, the village boundary pillars consist of single blocks of stone set in concrete. In the Striharikotta villages, laterite blocks in masonry have been used. The field marks, with the exception of two taluks in which the earthen marks originally set up are now being replaced by stone, are all stone.

40. In Kurnool the village boundary marks put down were of stone embedded in masonry. The auxiliary stones were distinguished by earthen mounds raised round them. The field marks are stone.

41. In Tinnevely and Coimbatore, both village and field boundary marks were constructed exclusively of stone; but in the latter District the offset mounds were built of earth and faced with stone. The Khandam marks are circular stone pillars.

42. In the Wynad, the boundary marks consist of rough blocks of granite procured from the beds of streams. In forest lands, large trees, where they occur on the line of boundary, have been adopted as the boundary marks and marked with an arrow.

Villages made over to Survey.—43. The annexed Statement shows the number of villages and the demarcated area made over to the Survey Department during the year:—

Districts.	Number of villages.	Extent in square miles.
Nellore.....	101	831
Kistna.....	178	1,080
Kurnool.....	232	1,712
Tinnevely.....	298	745
Coimbatore....	173	491

44. In the Wynad, the records of 252 properties covering an area of 89 square miles are reported to be ready for delivery to the Survey Department.

Villages for which the Survey areas have been received.—45. The number of villages for which the Survey areas were received during the year is exhibited in the annexed Statement:—

Districts.	Number of villages.	Extent in square miles.
Godavery... ..	309	1,192
Kistna.....	501	861
Kurnool.....	60	318

46. In the Wynad the Survey areas of three Native plantations; ten European estates; thirty-five Government lands; and eleven clusters of properties were received during the year.

Settlement Registers.—47. The English copies of the Settlement Registers for the Godavery Western Delta villages have been bound in the same manner as the specimen copies submitted with my Report last year. The cost will probably be Rupees 2-8-10 per village, and this includes binding four copies of the Registers, and mounting four maps. Owing, however, to the rapidly rising prices of materials of all kinds, I do not expect again to obtain so favorable a contract.

General Remarks.—48. Adverting to the general observations on Demarcation in paragraphs 96 to 100 of Colonel Priestley's Report, it occurs to me to remark that the relative positions of the Survey and Settlement Departments in reference to this Branch of the work are very peculiar and anomalous. The Settlement Department is not under the control of the Survey Department, and yet the latter is constantly sitting in judgment upon it. Without wishing to deny the imperfections of the Demarcation, and without attributing for a moment either to Colonel Priestley or his Officers a desire to make unnecessary complaints, it would be too much to expect from the Survey Department, or indeed from human nature, that with so convenient a door at which to lay their own short comings, the Settlement Department should not occasionally receive undeserved blame. It must be remembered that in this matter, the Settlement Department is to a certain extent at the mercy of the lowest of the Survey servants, any one of whom may attribute his short day's work to imperfect Demarcation. The question of the separation of the Demarcation from the Settlement, and its future conduct under the Survey Officers, is now under consideration. Whether if the contemplated change had taken place earlier, the Demarcation would have been done better, I am not prepared to say; but of this I am convinced; we should not have heard so much of its imperfections. Great stress has been laid on the neglect of the Settlement Department to divide villages into Khandams, as required by the Demarcation Rules; and the records of numerous villages in the Salem and Coimbatore Districts have been returned to this Department, in order that the omission of what is so essential for Survey requirements might be supplied. It would naturally be supposed that where the Demarcation has been performed by the Survey Department, no such omission would occur; and yet when in 1861, twenty-five villages were demarcated by them, out of twenty villages which should have been sub-divided in accordance with the Rules, only seven were sub-divided at all, and even those seven, to half the extent only which the Rules require.

49. In paragraph 11 of my letter to Government of the 22nd October 1863, No. 1,247, I ventured to allude to the unfavorable effect which the uncertain state of the Department has for some time had on all who belong to it. I then stated that this uncertainty had lasted more than a year. I trust I shall not be considered as going beyond my duty in now respectfully pointing out that it has lasted six months more. The Department is gradually losing its best servants, who naturally avail themselves of such openings as occur in other and permanent Departments. With the fate of the employees who have recently been so summarily dismissed from the Public Works Department, before them, their desire to leave a Department, the continuance of which is so uncertain, cannot be wondered at, and for the same reason, eligible men are naturally deterred from joining the Department.

50. During the year, the Department has sustained a heavy loss in the death of Mr. F. W. Morris, Deputy Director of Revenue Settlement. In February, Major Smith, Assistant Director, was compelled by ill-health to proceed to Europe on Medical Certificate. Lieutenant Stuart, Assistant Director, was absent on sick Certificate from July to October, and he also has since been ordered to England.

51. I have again to acknowledge the valuable services of Mr. R. K. Puckle, Deputy Director, with whose merits the Board and Government are well acquainted. Mr. W. C. Stuart, Acting Deputy Director in Coimbatore, has exerted himself as much as the delicate state of his health would allow. The Assistant Directors have generally given satisfaction. Among them I may mention Mr. Rundall, who has as usual been indefatigable in charge of the Nellore party, and Mr. Cox, who after the death of Mr. Morris, was for several months in charge of the Kurnool party, which he managed entirely to my satisfaction. Mr. Puckle speaks of the services of Captain Leggett and Mr. Symonds, the latter of whom has been in immediate charge of the Tinnevely Demarcation, and the former had charge of the Coimbatore Demarcation party for three months, during Mr. Stuart's absence on leave.

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) R. E. MASTER,

Officiating Director of Revenue Settlement.

APPENDIX A.

STATEMENT showing the extent of Demarcation and Classification work performed by the several Settlement Parties, and the expenditure incurred thereon, for the year 1863.

Settlement Parties, and the expenditure incurred thereon, for the year 1900.										
Taluka.		No. of villages completed.	No. of villages in progress.	Acre or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of Superintendence.	Total.	Average cost per square mile.	Remarks.
				Sq. miles.	Sq. Miles.	RS.	RS.	RS.	RS.	
GODAVERY.										
Narasapur		...	...	...	...	22	6	28	...	...
Tanuku		...	...	...	...	7	2	9	...	...
Undi... ..		...	...	...	...	12	3	15	...	...
Nagarum		...	...	...	...	42	11	53	...	...
Anilapur		...	...	...	...	2	0	2	...	...
Roh		...	...	...	...	10	3	13	...	...
Bikkavol		...	...	...	...	17	4	21	...	...
Kapavaram		...	...	...	...	157	36	173	...	...
Tadimalla		...	...	...	...	39	10	49	...	...
Pentapad		...	...	...	...	17	4	21	...	...
Peddapur		...	...	...	...	7	2	9	...	...
Rajahmundry		...	...	...	...	17	4	21	...	...
Kottapalli		...	...	...	...	37	10	47	...	...
Total...		...	...	...	...	368	93	461	...	...
Cost of Boundary pillars.						1	0	1	...	...
						367	93	462	...	...

STATEMENT showing the extent of Demarcation and Classification work performed, &c.—(Continued.)

Taluka.	No. of villages completed.	No. of villages in progress.	Ayacut or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of Superintendence.	Total.	Average cost per square mile.	Remarks.
Narsapur ...	...	...	Sq. Miles.	Sq. Miles.	Rs.	Rs.	Rs.	Rs. A. P.	
Tanuku ...	...	...	...	...	354	92	446	...	
Undi ...	...	...	...	...	130	34	164	...	
Nagaram ...	...	...	...	...	215	56	271	...	
Amiapur ...	...	...	...	...	526	136	662	...	
Hali ...	...	...	...	...	8.9	212	1,031	...	
Ramachendrapur ...	...	...	...	...	394	102	496	...	
Bikkavol ...	...	...	...	...	1,066	277	1,343	...	
Kapavaram ...	...	...	...	...	968	251	1,219	...	
Rajahmundry ...	...	...	...	...	1,269	329	1,598	...	
Kottapelli ...	...	...	...	...	178	46	224	...	
Lingamparru ...	...	...	...	...	428	111	539	...	
Tadimalla ...	...	...	...	...	176	46	222	...	
Pentapad ...	...	...	...	...	438	114	552	...	
Peddapur ...	...	...	...	...	286	71	360	...	
Pittapur ...	...	...	...	...	381	99	480	...	
Cocanada ...	...	...	...	...	12	3	15	...	
Chintalapudi ...	...	...	...	...	37	9	46	...	
Ellore ...	...	...	...	...	396	103	499	...	
Total ...	...	...	...	...	108	23	136	...	
NELLORE.					8,181	2,122	10,303	...	
Nellore ...	...	...	...	...	136	35	171	...	On the actual work.
Atmakur ...	...	...	...	...	421	107	528	...	
Rapur ...	...	...	...	...	243	61	304	...	
Kavali ...	...	...	...	...	38.04	6,144	1,555	7,699	...
Gudur ...	...	...	...	...	20.75	3,924	993	4,917	...
Udayagiri ...	...	...	...	...	36.38	4,211	1,046	5,277	...
Kandakur ...	...	...	...	...	47.80	6,738	1,705	8,443	...
Kanigiri ...	...	1	...	...	45.27	3,912	990	4,902	...
Ongole ...	32	16	276.29	328.92	6,068	1,635	7,003	...	
Stribarikotta ...	18	...	188.83	124.25	3,383	856	4,239	...	
Total ...	50	17	465.12	641.39	35,160	8,903	44,063	68 11 8	
Cost of Boundary pillars.					995	...	995	...	
Total excluding Nellore, Atmakur, and Rapur ...	50	17	465.12	611.39	34,360	8,700	43,060	67 2 8	
Total of last two Taluks ...	50	16	465.12	453.17	9,451	2,391	11,842	26 2 1	
KISTNA.					4,015	1,188	5,203	...	Average cost per Sq. mile.
Bapatla ...	...	...	...	...	207	61	268	...	
Palnad ...	...	...	...	...	70	15	85	...	
Krosur ...	...	...	...	...	1,079	319	1,398	...	

STATEMENT showing the extent of Demarcation and Classification work performed, &c.—(Continued)

Taluka.	No. of villages completed.	No. of villages in progress.	Ayacut or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of Superintendence.	Total.	Average cost per square mile.	Remarks.
Vinukonda ...	...	...	Sq. miles.	Sq. miles.	Rs.	Rs.	Rs.	Rs. A. P.	
Repalli ...	...	...	...	...	448	133	581	...	
Guntoor ...	...	...	...	...	291	86	377	...	
Bander ...	...	...	...	...	184	55	239	...	
Bezawada ...	...	...	...	...	78	23	101	...	
Nandigama ...	...	...	...	...	34	10	44	...	
Gudewada ...	...	...	...	...	140	41	181	...	
Total ...	...	...	...	...	6,609	1,958	8,565	...	
Cost of Boundary pillars and measuring rods.					1,658	...	1,658	...	
Bapatla ...	...	...	...	...	2,013	596	2,609	...	
Palnad ...	...	...	...	...	909	269	1,178	...	
Krosur ...	...	...	...	...	1,127	334	1,461	...	
Kajapet ...	...	...	...	...	305	90	395	...	
Vinukonda ...	...	...	...	...	429	127	556	...	
Repalli ...	...	...	...	...	2,653	785	3,438	...	
Guntoor ...	...	...	...	...	1,254	371	1,625	...	
Bander ...	...	...	...	...	1,412	427	1,839	...	
Bezawada ...	...	...	...	...	804	238	1,042	...	
Nandigama ...	...	...	...	...	1,185	351	1,536	...	
Guduwada ...	...	...	...	...	2,125	629	2,754	...	
Vissannapet ...	...	...	...	...	66	20	86	...	
Total ...	...	...	...	...	14,312	4,237	18,549	...	
KURNOOL.					2,237	291	2,528	...	
Ramalakota ...	...	...	7.69	6.68	3,126	407	3,533	...	
Nandikotkur ...	1	...	...	10.33	7,878	1,026	8,904	...	
Nandial ...	3	...	...	54.29	8,659	1,128	9,787	...	
Sirwell ...	23	...	463.78	445.89	14,677	1,912	16,589	...	
Koilkuntla ...	80	4	...	41.75	...	...	...	...	
Add area demarcated in blocks of waste...	...	...	...	...	...	...	...	...	
Total ...	107	4	470.47	558.97	36,577	4,764	41,341	73 15 4	On the actual work.
Cost of Boundary pillars...					2,847	...	2,847	...	
Total of Koilkuntla.	80	4	463.78	445.89	14,677	1,912	16,589	73 6 2	On the Ayacut.
Ramalakota ...	92	...	683.50	585.47	9,663	1,345	11,008	...	
Nandikotkur ...	60	...	336	317.75	7,604	1,059	8,663	...	
Nandial ...	3	...	...	10.63	4,573	637	5,210	...	
Sirwell ...	23	...	...	69.93	5,723	797	6,520	...	
Koilkuntla ...	76	8	453.38	406.79	13,951	1,942	15,893	...	
Total ...	254	8	1522.68	1420.62	41,519	5,780	47,299	31 0 11	On the Ayacut.
Total excluding Nandial and Sirwell...	228	8	1522.88	1340.01	31,218	4,346	35,564	23 5 8	

STATEMENT showing the extent of Demarcation and Classification work performed, &c.—(Continued.)

Taluka.	No. of villages completed.	No. of villages in progress.	Ayicut of gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of Superintendence.	Total.	Average cost per square mile.	Remarks.
TRICHINOPOLY.									
Perambalur.....	...	...	...	9.38	Rs. 121	Rs. 15	Rs. 136	Rs. 12	On the Ayacut.
Cost of Boundary pillars ..					12	...	12	...	
					133	15	148	...	
Conad	...	...	...	...	...	...	...	...	
Vettikatti	...	...	...	...	...	...	...	...	
Lalgudi	...	...	...	...	...	...	...	...	
Muviri	...	...	...	...	...	...	...	...	
Manapara	...	...	...	...	...	...	...	...	
Arcalore	...	...	...	...	...	...	...	...	
Udiarpolliem	...	...	...	...	...	...	...	...	
Perambalur	...	...	...	...	...	...	...	...	
Toriorie	...	...	...	9.38	...	...	...	...	
Total	...	...	...	9.38	35,461	4,535	39,996	...	
Cost of stationery for Settlement Registers and measuring chains..					1,102	...	1,102	...	
					36,563	4,535	41,098	...	
SALEM.									
Uttengiri	...	...	...	...	4,439	548	4,987	...	
Wamalur	...	...	...	...	4,761	687	5,448	...	
Sankagiri	...	...	...	...	1,682	207	1,889	...	
Shevaroy Hills	...	...	...	...	548	68	616	...	
Total	...	...	...	...	11,430	1,410	12,840	...	
Cost of boundary pillars...					125	...	125	...	
					11,555	1,410	12,965	...	
TINNEVELLY.									
Ambasamudram	61	...	105.86	88.96	3,516	455	4,001	...	
Nannaneri	213	...	596.63	575.52	15,333	1,968	17,301	...	
Tenkairi	157	...	440.11	437.41	10,316	1,324	11,640	...	
Ottapedaram	65	...	268.81	266.86	7,055	906	7,961	...	
Senkaraninarkovil	22	...	135.25	135.25	3,950	507	4,457	...	
Total	518	...	1546.66	1504.00	40,200	5,160	45,360	29 5 3	
COIMBATORE.									
Coimbatore ...	...	...	...	...	1,313	407	1,720	On the actual work.	
Palladam ...	15	1	8.40	24.66	1,755	543	2,298	...	
Sattimungaluni	122	60	396.67	408.88	13,847	4,288	18,135	...	
Bhowany ...	18	42	257.32	259.18	10,084	3,122	13,206	...	
Perundurai...	6	110	190.22	190.34	4,638	1,405	5,943	...	
Total...	161	219	852.62	863.06	31,537	9,765	41,302	46 12 4	
Cost of Boundary pillars.....					3,230	...	3,230	...	
					34,767	9,765	44,532	...	

STATEMENT showing the extent of Demarcation and Classification work performed, &c.—(Concluded.)

Taluka.	No. of villages completed.	No. of villages in progress.	Ayicut of gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of Superintendence.	Total.	Average cost per square mile on the actual work.	Remarks.
TRICHINOPOLY.									
Total, excluding Coimbatore and Paladam...	146	218	814.22	858.40	Rs. 28,469	Rs. 8,815	Rs. 37,284	Rs. 43 6 11	
Wynad ...	7	...	...	102.70	4,342	1,355	5,697	55 77 7	
Cost of Boundary pillars.....					755	...	755	...	
					5,097	1,355	6,452	...	
Grand Total...	168	219	852.62	985.76	35,879	11,120	46,999	...	
Cost of Boundary pillars ...					3,985	...	3,985	...	
					39,864	11,120	50,984	...	

REVENUE SETTLEMENT OFFICE,
MADRAS, 29th April 1864.

(Signed) R. E. MASTER,
Offg. Director of Revenue Settlement.

APPENDIX B.

STATEMENT showing the number and description of Boundary marks put up by the several Settlement Parties for the year 1863.

Items.	Nellore.	Kurnool.	Tinnevelly.	Coimbatore.	Wynad.	Total.
Village Boundaries.						
Villages ...	206	115	500	244	7	1,072
Khandams or Sub-divisions	1,227	1,535	3,642	808	...	7,210
Tri-junction Pillars	391	171	1,499	906	4,112	7,079
Secondary do. ...	997	2,705	8,170	6,626	8,225	26,723
Other marks on Village Boundaries.	8,891	3,172	25,609	16,195	...	53,867
Marks on Khandams	19,683	10,925	37,166	19,171	...	86,945
Field Boundaries.						
Number of villages ...	117	107	518	317	...	1,059
No. of Villages divided into	114	107	398	254	...	873
No. of Khandams	1,229	1,587	4,112	1,470	...	8,397
Number of Fields marked...	57,669	58,810	2,20,417	90,007	...	4,26,903

REVENUE SETTLEMENT OFFICE,
MADRAS, 29th April 1864.

(Signed) R. E. MASTER,
Offg. Director of Revenue Settlement.

REPORT ON THE SURVEY OPERATIONS FOR THE YEAR 1863.

No. 1.—Revenue Survey Party, Salem.

Field work.
Salem District.—Uttengiri and
Ossoor.
Coimbatore District.—Palladum.

Full number of Amins not employed.

Additional cultivation measured in Trichinopoly District.

Arrears of mapping partially cleared off.

Records handed over to Settlement.

Trichinopoly District.
Villages 238 = 191.73 square miles.

Salem District.
Villages 435 = 702.25 do.

Out-turn.

Expenditure.

Imperfect demarcation.
1862-1863.
Square Miles.
Estimated area 993.3 653.31
Measured do. 1119.9 655.17
Estimated cost Rs. Rs.
per mile .. 80 0 0 80 0 0
Actual cost
per mile... 72.3-11 121-16-10

Cause for small out-turn of field work.

Shevaroy Hills.
Out-turn and expenditure.

Faulty demarcation.

Additional work devolved on the Deputy Superintendent.

Connection of Revenue Survey with G. T. Survey stations.

Ramalakota Nundial
Nandikotkur. Sirwell.

Surveyors transferred from Ramalakota taluk.

1. No. 1 Party has during 1863 been chiefly employed in the Salem District. The Superintendent did not consider it advisable to employ the full strength of Amins; only 28 on an average have been in the field during the year. Of these some were employed in the Palladam taluk of the Coimbatore District; difficulty having been found in supplying even so small a number of men with satisfactory work.

2. Some few men were employed in measuring additional cultivation in the taluks of Udiarpolliem and Perambalur in the Trichinopoly District.

3. Efforts have been made to clear off arrears of mapping and have succeeded in a great measure.

4. The correct field areas of villages as shown in the margin have been handed over to the Settlement Department.

5. The total area surveyed in the Salem and Coimbatore Districts amounts to 655.17 square miles.

6. The expenditure has reached Rupees 70,173-1-2.

7. The small amount of field work is attributable mainly to imperfect demarcation.

8. This has already been reported and disposed of by Government in G. O., 15th December 1863, No. 2,293.

9. In the preceding year the out-turn of work was larger than the estimate, and the cost less.

10. No. 1 Party having been under the same superintendence as in the former year, nothing but the positive directions of the Superintendent would have prevented Mr. Beaumont from showing an equally favorable result.

11. Mr. Beaumont has spared no exertions to clear the office.

12. During the greater part of 1863 an Assistant was stationed on the Shevaroy Hills. Eighty estates have been surveyed at a cost of Rupees 6,743-9-0.

13. The Demarcation has been reported as faulty.

14. In addition to the duties devolving on the Deputy Superintendent from his own Party, he has had charge of a Detachment from No. 4, engaged in clearing off the arrears of work in the Coimbatore taluk on the transfer of No. 4 to Tinnevely.

15. During the year, the Revenue Survey work has been connected with eight G. T. Stations. The average error does not exceed 9-30 feet per mile.

No. 2.—Revenue Survey Party, Kurnool.

16. The Head Quarters of this Party have been employed in the Kurnool District in the survey of taluks named in the margin.

17. The Surveyors were transferred from Ramalakota taluk before the completion of the Survey of it, in order that the records of all the irrigable villages in the District might be completed as soon as possible, in readiness for the Irrigation Company.

Party incomplete for some time.

Full number of Amins not employed in the field.

Demarcation defective.

Jungle not cleared in two taluks.

Re-demarcation rendered necessary in Sirwell.

Work greatly impeded.

Out-turn and expenditure.

Noticing the services of the Deputy Superintendent and Sub-Assistant.

Work in Godavery District almost complete.

Head Quarters transferred to Kurnool.

General reduction of Party.

Office removed from Rajahmundry to Guntur.

309 villages comprising an area of 1,193 square miles handed over to Settlement.

Expenditure.

Establishment under the charge of Mr. Gompertz.

Excess over the estimate.

Connection of Revenue Survey with G. T. Survey stations.

18. The party having been transferred from Godavery, some men refused to accompany it, and it was for some time incomplete.

19. Even after it had been brought up to its full strength the average number in the field did not exceed 42, as it was considered advisable to hasten the preparation of the records of work already performed.

20. The Demarcation having been found defective, several Demarcators accompanied the Surveyors to supply omissions in the Nandikotkur taluk.

21. An Assistant Director was, on the representation of Mr. Wright, the Acting Deputy Superintendent, sent to superintend clearing jungle and correcting Demarcation in the Nundial taluk. Similar work required to be done in the Sirwell taluk.

22. The demarcation of Sirwell has to be revised in consequence of the Irrigation Company having taken up more land than was originally allotted to them.

23. The incomplete state of the Demarcation has not a little retarded work.

24. During the year, 1078.80 square miles have been surveyed at a cost of Rupees 59,763-11-1, or 55-6-4 per mile.

25. The Party has been, for the greater part of the year, under the unassisted superintendence of Mr. Wright, who has exerted himself greatly. He speaks highly of Mr. Frazer, his Sub-Assistant. Mr. Tomlinson, 2nd Assistant Superintendent did not join at Kurnool till October.

Godavery Survey Party.

26. The Survey of the Godavery District may be said to have been completed.

27. The Head Quarters of No. 2 Party were transferred to Kurnool in January; a small Party was detained in the District to complete the work. Their number was 253 at the beginning of the year, and at the close but thirty-nine men, exclusive of Peons and Measurers, were employed.

28. In October the Branch Office was broken up, and the records were taken to Guntur where the remaining accounts are being prepared.

29. The extent of country, the records of which have been handed over to the Settlement Department, is shown in the margin.

30. The total expenditure has been Rupees 27,970-14-0.

31. The Detachment has been under the immediate charge of Mr. Gompertz, and supervised by Major Crewe.

32. The estimate formerly submitted for the completion of the District will be exceeded by about Rupees 1,200.

33. The work of the District has been connected with 9 G. T. Points, 7 of the distances have been calculated and compared with the G. T. work. An average error of 9.96 per mile is the result.

No. 3.—Revenue Survey Party, Kistna.

Field work.

Krosur. Bapetla.
Repalli. Rajapet.
Guntoor.

Area furnished to Settlement
Department in Krosur and Re-
palli taluks.

	Sq. miles
Out-turn.—Government land of which the field measurements have been taken.....	1071.11
Do. cultivable and waste traversed only.....	158.03
Zemindary.....	14.91
Agraharums.....	112.23

Total 1356.36

Expenditure.

Work in excess of former years.

Demarcation good.

Work slightly impeded.

G. T. Survey records.

Connection of Revenue Survey
with G. T. Survey stations.

Noticing the services of the As-
sistants.

Conduct of subordinates unsat-
isfactory.

34. No. 3 Party has been employed under Major Crewe in the Bapetla and Rajahpett taluks, both which taluks have been taken up in the past year.

35. In the five taluks named in the margin men have been employed in surveying topographical details, and correcting former work.

36. During the year, the correct area of 277 villages with a total area of 818 square miles have been furnished to the Settlement Department.

37. During the year, 1356.36 square miles have been surveyed.

38. The total expenditure has been Rupees 77,927-8-10, or Rupees 57-7-3 per square mile.

39. This, the largest out-turn that has yet been attained by No. 3. The large size of the fields measured by Amins contributed to this.

40. The Party has been at its full strength.

41. The Demarcation has been very favorable to the progress of the Survey, having been executed under the orders of the late Mr. Morris.

42. The introduction of Puntas after the demarcation and survey of villages had been completed, has caused some delay near the sea coast; the marks, being formed of sand, are said to be disappearing.

43. The alteration of taluk and village boundaries after they had been surveyed and mapped, will in some cases cause a discrepancy between them and their delineation on the maps.

44. By the courtesy of Captain Branfil, in charge of the Coast Series of the G. T. Survey, a copy of the G. T. triangles has been obtained for comparison with the Revenue Survey work.

45. Ten of his stations have been worked up to, and nine of the distances have been calculated; the rate of error varies from 1.54 to 15.79 feet per mile. The average gives 7.20 per mile.

46. Major Crewe acknowledges the assistance rendered him by Messrs. Dunsford and Tomlinson, his Assistants.

47. The conduct of some of the upper subordinates has not been satisfactory, and several dismissals have taken place.

No. 4, Revenue Survey Party, Tinnevely.

48. No. 4 Party has labored under considerable disadvantages during the past year.

Disadvantages under which the
Party labored.

Small establishment left at
Coimbatore under Mr. Cardozo.

Head Quarters removed to Tinne-
velly.

Field work commenced in Ten-
kasi taluk.

Defective Demarcation.

634 square miles surveyed.

Area not supplied to Settlement
Department.

Expenditure.

Party not raised to its full
strength.

Conduct of subordinates unsat-
isfactory.

Transfer of No. 4 Party.

Small establishment in Coimba-
tore under an Assistant Super-
intendent.

Cost great.

Establishment employed in map-
ping.

Establishment superintended by
Mr. Beaumont.

Surveyors of No. 1 Party em-
ployed in Palladam taluk.

1st. The absence of the Deputy Superintendent Captain Barber for six months for the purpose of studying; and secondly the transfer of the Head Quarters and the major part of the establishment from Coimbatore to Tinnevely.

49. This transfer took place in May. Mr. Cardozo, 1st Assistant, was ordered by the Superintendent to remain in charge of this Detachment left at Coimbatore for the completion of the work of the Coimbatore taluk.

50. Lieutenant Shortt, 1st Assistant, and Mr. T. H. L. Gordon, 2nd Assistant, proceeded with the Head Quarters to Tinnevely.

51. The Party arrived on the 3rd June.

52. The Tenkasi taluk was handed over for survey. The complaints made by Surveyors and Amins of imperfect Demarcation were very great. Captain Barber, on re-joining his Party in September found that the complaints were well founded, and made several reports on the subject, which have been forwarded to the Director of Settlement.

53. The work performed by the Head Quarters is shown in the margin.

54. The correct areas of no villages have been handed over to the Settlement Department.

55. The total expenditure in Tinnevely has been Rupees 30,445-5-4, or 70-2-5 per mile.

56. The Party has not been more than seven months at work, and that with a reduced establishment.

57. In the month of November, the services of Mr. T. Gordon were dispensed with by Government.

58. Captain Barber reports the conduct of several of his office subordinates as unsatisfactory. Their conduct has been noticed as it deserved.

Coimbatore District.

59. On the transfer of Head Quarters of No. 4 to Tinnevely, a small Detachment remained behind to complete the work of the Coimbatore taluk.

60. This Detachment was placed under Mr. Cardozo. The original work has been small in amount.

61. If an average be struck on that, the cost will appear to be unduly great; but if the outlay be added to the cost of work in former years and an average then be struck, the Survey of the Coimbatore taluk will not then appear exorbitant.

62. The Detachment has been chiefly occupied in mapping and correction.

63. The Detachment has been supervised by Mr. Beaumont, Deputy Superintendent of No. 1 Party.

64. The Palladam taluk of the Coimbatore District has been undertaken by No. 1 Party Surveyors; whilst the faulty Demarcation of some taluks in Salem is being revised.

65. A Statement of the work done there, appears in the remarks of No. 1 Party.

Wynad.

Out-turn during first season, and expenditure.

66. During the first quarter of the year, twenty-five estates with an area of 3.15 square miles were surveyed at a cost of Rupees 1,712-10-4.

Small Party employed at the end of the year.

67. In October a small Party was sent to complete fifteen unfinished coffee estates, and to insert the topographical details in fourteen others.

Out-turn small.
Demarcation marks not found.

68. Nine estates have been finished; great difficulty was experienced in consequence of the disappearance of the Demarcation marks, and those laid down by the Surveyors in former years. The cost has been Rupees 1,197-3-8. The Detachment at work in Wynad belongs to No. 4 Party.

No. 5.—Revenue Survey Party, Nellore.

Field work.

Gudur. Kavali. Udayagiri.

Out-turn and expenditure.

69. No. 5 party has been employed in the Nellore District in the taluka marginally noted.

Time lost to Survey.

70. The total area measured by Amins does not exceed 830.03 square miles. The expenditure has been comparatively large, Rupees 66,382-10-11, or 79-15-7 per mile.

Work at present satisfactory.

71. Mr. Puckle mis-apprehended the orders of the Superintendent regarding minor circuits of waste land. On proceeding to carry out the orders of the Superintendent he found so much difficulty in making these circuits tally with the Amins' work, in consequence of the disappearance of the Demarcation, that a great deal of time was lost.

Repeated calls for survey of waste fields in completed villages unfavorable to Survey.

72. The work in the Nellore District is now proceeding satisfactorily. Mr. Puckle represents that unsettled boundary disputes and the handing over for Survey part of the Streehari-cottah Zemindary situated about 150 miles from the Kanigiri taluk, where the main body of his men is employed, has had an unfavorable effect; also the having repeatedly to send back Surveyors and others to survey fresh waste numbers in villages completed a considerable time before.

Areas will be furnished to Settlement Department.

73. It may be expected that during the current year the records of a large extent of country will be handed over to the settlement.

Connection of Revenue Survey with G. T. Survey Stations.

74. The work has been connected with two G. T. stations.

75. The average error is 2.36 feet per mile.

Madras Town Survey.

Black Town Survey completed in Central Office.

76. The records of Black Town division, of which the Survey was stated to have been completed in the annual report for 1862, were brought up during the year in the Revenue Survey Central Office at a cost of Rupees 858-6-3.

Tondivaid Survey.

Out-turn and expenditure.

77. *Tondivaid division.*—In this division 574 holdings, comprising an area of 609.61 acres left unmeasured at the close of the working season of 1862, were surveyed by the end of June

last, besides fourteen streets. During the latter half of the year, 692 holdings were plotted; the key and divisional maps colored and finished; fair registers and field books prepared; and Cutcherry areas examined. The cost of this division during the year under report is Rupees 2,252-3-10.

78. The Survey of the Town of Madras is therefore now at an end.

Transfer of Messrs. Plumbé and Cooke.

79. Mr. Plumbé has been placed in charge of the Coorg Survey, and Mr. Cooke has been transferred to the Kimerly Survey as Sub-Assistant.

Lithographic Press.

Out-turn during the year.

80. During the year the press has printed 54,060 copies of 1,690 Village maps, comprising an area of 3,199 square miles, also two Taluk and Hydrographic maps.

Expenditure.
8,445-7-11 Village maps.
769-8-10 Taluk do.

81. The expenditure is given in the margin, and the cost of lithography per mile appears to be Rupees 2-10-3.

Rate greater than expected.

82. This rate though less than that of former years is larger than had been expected.

Cause rendering rate per mile great.

83. During the first seven months, the rate had been reduced to Rupees 2-1-5 per mile; but during the remaining five months it again rose to Rupees 4-6-2.

Insufficient work for Presses.
Trichinopoly maps not reprinted.

84. The increase is owing to the following causes:—the Demarcation Registers of the Godavery District having been found untrustworthy, the Board of Revenue in their Proceedings of the 14th October last, No. 6,590, approved of a proposal to defer the printing of the village maps till the completion of new Registers. Work on the Godavery District maps was consequently suspended.

Lithographic Presses provided with work.

85. The Presses were only able to work half time.
86. An application was made for a list of the villages in the Trichinopoly District, of which the maps were to be reprinted agreeably to Government Order, 7th November 1863, No. 2,003. The new Registers not being ready this list has not been furnished.

Specimen maps.
Present year's work compared with last years.

87. In order to prevent the Presses from coming to a stand still, village maps are now being lithographed without the symbols for wet, dry, and Inam.

88. On the receipt of the new Registers, the maps will be again passed through the Press to receive the symbols.

89. Copies of several maps are sent as specimens.
90. A comparison with those submitted last year will show that while the cost has been reduced the execution has not suffered.

Central Office.

Taluka
Museri.
Trichinopoly.
Kulutalli.
Undi.

} Trichinopoly District.
Godavery do.

91. The Central Office has as usual been employed in the examination and check of Village maps, and in the preparation of Taluk maps.

Expenditure.

Share of Central Office.

Out-turn.

Estimate exceeded.

Demarcation of Nos. 1 and 3
Parties contrasted.

Demarcation good in Kistna

Defects in Demarcation already
reported.

Great difficulties experienced in
Trichinopoly and Salem were
brought forward.

Cost of taluks not reported on.

Cost per mile for past years.

	Area sq. miles.	Cost per mile.
Trichinopoly, 3 Taluks...	1597.5	89
Salem, 3 Ta- luks...	705.4	110
Godavery District ..	3,393	95
Kistna, 3 Taluka ..	1,274	98

Rate shorter than estimate in
Ahtoor.

Cost of Namcul great.

92. The expenditure including Military and Civil pay of the Superintendent; purchase of instruments; and contingent charges amounts to Rupees 30,327-4-3.

93. This gives a rate of Rupees 6-5-10 per square mile to be added to the expenditure on the work of the different parties.

94. The total out-turn of work during the year is 4763.88 square miles at a cost of Rupees 87-7-4 per mile.

95. This is in excess of the estimate by Rupees 7-7-4 per mile. The chief causes of this excess have been shown in the remarks on the work of the different parties.

96. The great influence that really good Demarcation has on the work of a Party may be seen on contrasting the work of No. 1 and No. 3 Parties.

97. The Demarcation performed by the late Mr. Morris was very carefully done.

98. The Salem Demarcation has already been sufficiently reported on. It may seem to require explanation why the imperfect Demarcation of Salem has only at this late hour appeared materially to affect the Survey.

99. It is a most invidious task, and one that the Superintendent has shrunk from, to charge another Department with the responsibility of being the cause of retarding work.

100. The difficulties met with both in Trichinopoly and Salem have been from time to time reported by the Deputy Superintendents, Captain Hesse and Mr. Beaumont; they did all in their power to overcome these difficulties, and it was not till they were found to be overwhelming that the circumstance was brought before Government.

101. Up to this time, the exact cost of surveying any particular taluk has not been calculated and submitted to Government.

102. In the past years, the cost of the work per mile has been said to be as follows:—

	1859.	1860.	1861.	1862.	1863.	Mean.
Trichinopoly and Salem...	Rs. 69	58½	68½	72½	122	78
Godavery.....	" 91	77½	80½	112	...	95½
Kistna.....	" 129	79½	78½	72	65½	85

103. In the margin is shown a Statement of average cost per square mile in the Trichinopoly, Salem, Godavery, and Kistna Districts as far as can be given from the data furnished by the officers in charge.

104. The rate of work in one taluk in Salem is Rupees 73 per square mile.

105. In another, Namcul, it is exceptionally large, for this there are a variety of causes.

Difference of cost between Delta
and Upland taluka.

Cost per mile in the Kistna and
Nellore Districts will be fur-
nished.

Working of Act XXVIII of 1860.

Heavy fines inflicted in few
cases.

Test of Revenue Survey in com-
parison with Great Trigono-
metrical Survey.

Noticing the conduct of Assis-
tant Superintendents.

Captain Barber passed in Ver-
nacular.

Charge of No. 4 Party under
Lieutenant Shortt.

Re-joining of Captain Hesse and
his taking charge of Central
Office.

Lieutenant Pavy's return to
England from severe illness.

Health good in general.

REVENUE SURVEY OFFICE,
CHEPAUK, 19th March 1864.

106. In the Godavery District, the cost of the Delta taluka is about Rupees 107-12-0; of the Upland about Rupees 75-12-0.

107. At the close of the year, the cost of surveying the greater part of the Kistna District and some part of Nellore will be submitted.

Working of Act XXVIII of 1860.

108. The powers conferred under Act XXVIII of 1860 were exercised in 325 cases; and the fines collected amounted to Rupees 2,301-4-0 from 2,167 persons at an average of a little more than a Rupee each.

109. Fines above 10 Rupees were inflicted in twenty-five cases only; viz., five in the Salem, eighteen in the Tinnevely, and two in the Kistna Districts. In two cases in the Salem District offenders have been imprisoned for default of payment.

Connection with the Stations G. T. Survey.

110. The general average of error found by comparison of the Revenue Survey work with the G. T. Survey does not exceed 8-22 feet per mile, vide Statement.

General Remarks.

111. The Superintendent desires to acknowledge the assistance he has received from officers in charge of Parties.

112. He found it necessary to recommend the removal of one Assistant. He has had to reprimand another Assistant for neglect of duty. With these exceptions the Assistants have conducted their duties so as to require no special notice.

113. Captain Barber has succeeded in passing an examination for staff employ for which he was granted leave.

114. Lieutenant Shortt held charge of No. 4 for him during that period.

115. Captain Hesse returned from sick leave in November and took charge of the Central Office on Major Priestley's obtaining leave to the Hills, and the Superintendent has to thank him for the manner in which he has performed that duty in his absence.

116. The Superintendent regrets that severe illness will deprive Government of the services of Lieutenant Pavy, who has recently been promoted to First Assistant on his return from leave.

117. There has been but little sickness among the officers and subordinates of the Revenue Survey during the past year.

(Signed) F. J. B. PRIESTLEY, Lieut. Colonel,
Superintendent, Revenue Survey.

Return of area surveyed and cost incurred during the year 1863.

Names of Parties.	Extent measured in square miles.	Actual expenditure during the year 1863.	Estimated measurement Allowance.	Expenditure including estimated measurement Allowance.	Cost per		Share of Central Office, exclusive of Superintendent's Regimental Allowance.	Expenditure of each party in share of Central Office.
					Square mile.	Acre.		
1	2	3	4	5	6	7	8	9
No. 1 Salem and Coimbatore	655.17	Rs. A. P. 66,314 5 0	Rs. A. P. 3,000 0 0	Rs. A. P. 69,314 5 0	Rs. A. P. 105 12 8	0 2 7	Rs. A. P. 4,359 5 8	Rs. A. P. 73,073 10 8
" 2 Kurnool	1078.80	51,198 6 6	4,500 0 0	55,698 6 6	51 10 1	0 1 3	4,359 5 7	60,057 12 1
Do. Godavery	...	26,477 11 9	...	26,477 11 9	...	...	...	26,477 11 9
" 3 Kistna	1356.36	62,490 10 2	5,000 0 0	67,490 10 2	50 0 10	0 1 3	4,359 5 8	72,249 15 10
" 4 Coimbatore	400.36	23,250 11 7	1,000 0 0	24,250 11 7	60 9 2	0 1 6	1,743 11 10	25,994 7 5
Do. Tinnevelly	433.62	27,591 2 9	1,200 0 0	28,791 2 9	66 5 7	0 1 8	2,615 9 9	31,406 12 6
" 5 Nellore	830.03	64,033 10 11	3,000 0 0	67,033 10 11	80 12 2	0 2 0	4,359 5 7	71,393 0 6
Total.....	4754.64	3,21,756 10 8	17,700 0 0	3,39,456 10 8	71 6 3	0 1 9	21,796 12 1	3,61,253 6 9
Shevaroy Hills	6.09	6,743 9 0	...	6,743 9 0	1,107 5 0	1 11 8	...	6,743 9 0
Wynad	3.15	2,909 14 0	...	2,909 14 0	923 12 3	1 7 1	...	2,909 14 0
Rasepoor	...	196 11 8	...	196 11 8	...	...	...	196 11 8
Grand Total.....	4,763.88	3,31,606 13 4	17,700 0 0	3,49,306 13 4	73 5 2	0 1 10	21,796 12 1	3,71,103 9 5

Names of Parties.	Cost per		Chargeable to General Fund.				Total expenditure including all charges.	Cost per	
	Square mile.	Acre.	Regimental Allowances of the Superintendent and Officers.	Measures.	Instruments issued.	Total chargeable to General Fund.		Square mile.	Acre.
	10	11	12	13	14	15	16	17	18
No. 1 Salem and Coimbatore	Rs. A. P. 112 7 2	Rs. A. P. 0 2 9	Rs. A. P. 3,858 12 2	Rs. A. P. ...	Rs. A. P. 855 7 9	Rs. A. P. 6,252 6 9	Rs. A. P. 79,926 1 5	Rs. A. P. 121 15 10	Rs. A. P. 0 3 0
" 2 Kurnool	55 10 8	0 1 5	1,555 2 10	8,570 4 7	646 8 3	10,754 15 8	70,812 11 9	65 10 3	0 1 7
Do. Godavery	...	...	...	1,493 2 3	20 8 0	1,513 10 3	27,991 6 0	...	...
" 3 Kistna	63 4 3	0 1 4	7,690 14 0	7,346 0 8	56 11 0	16,631 12 6	88,881 12 4	65 8 5	0 1 7
" 4 Coimbatore	64 14 10	0 1 7	992 0 0	...	24 10 2	1,631 14 5	27,625 5 10	69 0 0	0 1 8
Do. Tinnevelly	72 6 0	0 1 9	2,854 2 7	...	116 12 0	3,893 13 1	35,300 9 7	81 5 7	0 2 0
" 5 Nellore	86 0 2	0 2 2	2,349 0 0	...	976 0 0	4,863 2 9	76,256 3 3	91 13 11	0 2 3
Total.....	75 15 7	0 1 10	17,744 12 9	17,409 7 6	2,696 9 2	45,541 11 5	4,06,795 2 2	85 8 11	0 2 1
Shevaroy Hills	1,107 5 0	1 11 8	...	...	...	...	6,743 9 0	1,107 5 0	1 11 8
Wynad	923 12 3	1 7 1	...	...	...	...	2,909 14 0	923 12 3	1 7 1
Rasepoor	...	...	...	...	...	...	196 11 8	...	...
Grand Total.....	77 14 4	0 1 11	17,744 12 9	17,409 7 6	2,696 9 2	45,541 11 5	4,16,645 4 10	87 7 0	0 2 2

Revenue Survey Office,
CHEPAUK, 19th March 1864.

(Signed) F. J. B. PRIESTLEY, Lieut.-Colonel,
Superintendent, Revenue Survey.

176-1670
Enc in the Proceeding
of the Board of Revenue
to the Secretary to Govt.
P. D. Dated 2 November
1874. No. 7188-

Rev. 2906/64.

Letter from the
Offr Director of Revenue
Ltr to the Secy to the
Board of Rev. Dated 29th
April 1874 No. 521, reg.
the progress of Settlement
operations during the year
1873-

10th June/85

1275

223-224

33. Party No. 1 surveyed 655.17 square-miles. The expenditure amounted to Rupees 70,173. On the Shevaroy Hills, eighty estates were surveyed at a cost of Rupees 6,743. The Revenue Survey was connected with eight G. T. stations. The average area did not exceed 9.30 feet per mile.

34. In Kurnool, Party No. 2 surveyed square-miles 1,078, at a cost of Rupees 59,768, or Rupees 55.6-4 per mile.

35. A small detachment of this party was detained in the Godavary District to complete the Survey.

36. The expenditure of the year in the above District was Rupees 27,970. The estimate formerly submitted for the completion of the District will be exceeded by about Rupees 1,200.

37. The survey of the District has been connected with nine G. T. stations. Seven of the distances have been calculated and compared with the G. T. work. An average area of 9.98 feet per mile is the result.

38. In the Kistna District 1,356 square-miles were surveyed by No. 3 Party, at a total cost of Rupees 77,927-8-10, or Rupees 57-7-3 per square-mile.

39. Ten of the G. T. stations have been worked up to, and nine of the distances have been calculated; the rate of area varies from 1.54 to 15.79 feet per mile, the average rate being 7.20 per mile.

40. Party No. 4. A detachment of this party was at work in Wynad, and another detachment was detained at Coimbatore for the completion of the work in the Coimbatore Taluk. The remainder of the establishment was transferred with the head-quarters from Coimbatore to Tinnevely.

41. In the seven months that the reduced establishment was at work in Tinnevely, 434 square-miles were surveyed, at a cost of Rupees 39,445-5-4, or Rupees 70-2-5 per square mile.

42. The detachment in Wynad surveyed, during the first quarter of the year, twenty-five Estates comprising an area of 3.15 square miles, at a cost of Rupees 1,712-10-4. In October nine other Estates which were left unfinished during former operations were completed at a cost of Rupees 1,197-3-8.

43. The disappearance of the boundary marks is alluded to by Colonel Priestley as causing great difficulty. Mr Master observes that in Wynad it is difficult to maintain such marks which are not unfrequently thrown down by wild elephants, and in the preservation of which the proprietors of Estates appear to take no interest.

44. No. 5 Party in Nellore. The total area measured was 830.03 square-miles, at a cost of Rupees 66,382-10-11, or Rupees 79-15-7 per mile.

45. Colonel Priestley alludes to the delay caused by the re-call of Surveyors and others to survey in detail waste numbers in villages completed a considerable time before. The Board have been in correspondence with the Collector on the subject.

46. The work in Nellore has been connected with two G. T. stations, and the average area is 2.36 feet per mile.

47. The Lithographic press printed 50 copies of 1,690 village maps, comprising an area of 3,194 square-miles, also two Taluk and Hydrographic maps. The expenditure amounted to Rupees 8,445 on account of Village maps, and Rupees 769 on account of Taluk maps. The cost of lithography per mile was Rupees 2-10-3, which rate is less than that of former years.

48. The general results of the year in the Survey Department were briefly as follows.

49. The total extent measured was 1,731.43 square miles, and the total expenditure incurred, including all charges, was Rupees 4,16,655-4-10, being at the rate of Rupees 87-7-0 per

R 40-10 June 65
R 229-224

17

STATEMENT of expenditure of the Revenue Survey Lithographic Department for the year 1863.

	Extent in square miles.	Cost including ordinary contingencies.	Cost per square mile.	Cost including contingencies and printing paper.	Cost per square mile.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Cost of Village maps ...	3,109	8,445 7 11	2 10 3	15,891 12 1	4 15 6
Do. Taluk do. ...	1,017	769 8 10		769 8 10	
Total.....	4,246	9,215 0 9		16,661 4 11	4 15 6

Revenue Survey Office,
CHERPAUK, 19th March 1861.

(Signed) F. J. B. PRIESTLEY, Lieut.-Colonel,
Superintendent, Revenue Survey.

STATEMENT of comparative distances between Trigonometrical Stations.

Parties.	Stations.	Distances.		Difference.	Error per mile.	Average error.
		By Trigo- nometrical Survey.	By Revenue Survey.			
No. 1, Salem.	Gollaputty to Garadugootah.	73155	73143 93	11 07	0 73	9 30
	Do. do. Mookanoor ...	82830	82552 73	297 25	18 94	
	Podahry do. do. ...	95539	95359 05	179 95	9 94	
	Do. do. Tripatore ...	810 7	81273 93	236 93	15 43	
	Do. do. Kistnagherry..	118772	118409 40	362 60	16 12	
	Do. do. Hurroor Hill..	101892	101895 82	3 82	0 19	
	Gollaputty do. Pennagra ...	44287	44255 05	31 95	3 80	
	Garadeegoola do. do. ...	51333	51423 29	90 29	9 29	
No. 2, Godavery.	Elagai do. Narnilmeta..	68690 55	68635 83	54 72	4 20	9 96
	Mairra do. do. ...	50016 70	49914 55	102 15	10 78	
	Sutkondah do. do. ...	25920 20	25846 46	73 74	15 02	
	Yedlaghatu do. Lutchinupram	84083 66	84049 81	33 85	2 13	
	Arpad do. do. ...	77773 55	77614 54	159 01	10 79	
	Do. do. Yedlaghatu ...	52930 18	52805 36	124 82	12 45	
	Nullakondah do. Korkondah ...	66148 80	65968 05	180 75	14 36	
	Bezwadah H. S. to Ananthava- ram H. S. ...	64347 72	64328 96	18 76	1 54	
No. 3, Kistna.	Lagodapad do. do. ...	65458 10	65262 42	195 68	15 79	7 20
	Do. do. Chikri H. S.	69104 87	69066 04	38 83	2 97	
	Dhulipalla do. do. ...	58839 61	58794 59	45 02	4 05	
	Do. do. Adam's Peck.	94927 58	94809 79	117 79	6 53	
	Lagodapad do. do. ...	86858 14	86771 25	86 89	5 28	
	Gorantla do. do. ...	63087 09	62984 76	102 33	8 56	
	Do. do. Ananthavaram	...	...	...	...	
	H. S. ...	62505 74	62424 05	81 69	6 91	
No. 5, Nellore.	Dhalipalla do. Lagoodapad...	55829 32	55690 35	138 97	13 14	2 36
	Kurracondah do. Seddanayudoo	...	...	...	...	
	H. S. ...	199343 20	199484 56	141 36	3 70	
	Allicondah do. do. ...	154018 00	154023 74	5 74	1 03	2 36
Average error, on the whole						8 22

Revenue Survey Office,
CHERPAUK, 19th March 1864.

(Signed) F. J. B. PRIESTLEY, Lieut.-Colonel,
Superintendent, Revenue Survey.

square mile on the whole area surveyed. The share of the Central Office in the above rate was Rupees 6-5-10 per square-mile, the expenditure connected with it amounted to Rupees 80,327-4-3.

50. The above rate of Rupees 87-7-0 exceeds the estimated rate by Rupees 7-7-4; but much exceptional work was included in the out-turn of the year.

51. The following Statement of actual average cost per square-mile is submitted in correction of previous calculation.

	Area Square-mile.	Cost per mile.
Trichinopoly, three Taluks.	1,597-5	89
Salem, two Taluks	705-5	100
Godavery District	3,392-0	95
Kistna, three Taluks	1,274-0	98

52. In Salem, one of the Taluks was exceptionally expensive. The Godavery and Kistna Survey areas include delta lands which are necessarily expensive.

53. The Revenue Survey has been connected with twenty-nine G. T. stations. The average area was 8-22 feet per mile.

54. The Board consider the progress and operations of the year to be very creditable to the Officer of the Survey and Settlement Departments.

(A true Extract.)

[Signature]
Secretary.

To J. D. Sim, Esq., Secretary to Government R. D.,
with eleven maps and copies of letters from Officiating Director of
Revenue Settlement, dated 29th April 1864, and 22nd September 1864.
Copy to R. E. Master, Esq., Officiating Director of Revenue Settlement.
to Lieutenant-Colonel F. J. B. Priestley, Superintendent of Revenue Survey.

Ed. R. H. Lee.

[Handwritten note]

Submitting with remarks report of the Officiating Director of Revenue Settlement on the relations of the Settlement and Survey Departments and their results in 1863.
12/25/64
RECORDED

Date: 10 November 1864.
12/25/64
18-6-65

PROCEEDINGS OF THE BOARD OF REVENUE,
No. 2906

10 June 1865
1864 Department
[Handwritten signature]