

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

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Not to be folded or roughly handled

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

No. 172. Read the following Proceedings of the Board of Revenue, dated 26th September 1865, No. 6,005.

Read the following letter from R. E. MASTER, Esq., Officiating Director of Revenue Settlement, to R. A. DALYELL, Esq., Acting Secretary to the Board of Revenue, dated Madras, 23rd May 1865, No. 510-16:—

ABSTRACT.—Reporting on the state and progress of the Settlement operations during the year 1864, and submitting a Report from the Superintendent of Revenue Survey, on the work of his Department for the same period.

1. The Board regret that the disposal of the foregoing Report, which was received in the Board's Office on the 19th of June, has been unavoidably postponed. It will now be submitted for the information of Government.

2. The Board will briefly review the operations of the Settlement and Survey Departments and their results for the year 1864 under report.

3. *South Arcot*.—The demand for Fusly 1273 in the Chedumbrum Talook, under the revised assessment, was Rupees 5,19,142, or Rupees 7,716 in excess of that of Fusly 1272, and Rupees 3,416 less than that of the year preceding the introduction of the new assessment.

4. *Godavery District*.—The actual demand under the new Settlement in the Western Delta Talooks of this District in Fuslies 1272, 1273, and 1274, compared with the Joint-rents for Fusly 1271, the year previous to the introduction of the new Settlement, was as follows, viz:—

	Rs.
Fusly 1271, Joint-rents...	5,71,373
Do. 1272, actual demand under new Settlement...	5,82,605
Do. 1273	6,18,490
Do. 1274	6,34,613

The difference between the eventual full demand on these lands now in occupation, and the assessment now being paid under the indulgence granted to the Ryots of paying the increased assessment gradually is very small, viz., Rs. 1,374, and will soon cease altogether.

5. *Trichinopoly*.—The new Settlement had been introduced into the four Talooks of Perambalur, Musiry, Kudatalai, and Trichinopoly before the beginning of this year; many more villages have since been settled, and the whole District, it is expected, will in a very short time be completed.

6. *Kurnool*.—One hundred and eighteen villages of the Ramalkota, Nundikotkur, and Nundial Talooks have been settled. The whole of the four Talooks, the proposed Settlement of which has been sanctioned will, it is expected, be completed by next year.

7. *Kistna*.—The Settlement of the Masulipatam portion of the Kistna District has been deferred, as already reported to Government in the Officiating Director's letters to Government, dated 12th December 1864, and 5th January 1865, respectively.

8. *Proposals for the Settlement of other Districts*.—The arrangements for the Settlement of the Central and Eastern Deltas, and upland Talooks of the Godavery District, were forwarded to Government with the Board's Proceedings, dated 4th April 1865, No. 1,839, and have been finally approved in the Government Order, under date 23rd May 1865, No. 1,096.

9. *Salem*.—A report on the Settlement of this District will be submitted in due course.

10. *Cuntoor portion of the Kistna District.*—The report for this District will be submitted so soon as the true Survey areas for all the Talooks are received, and when the re-classification of that portion of this tract, the accounts of which were lost in the inundation, is completed.

11. *Scene of operations during the year 1864.*—In Kurnool and Cuddapah the work consisted of demarcation and classification. In Nellore, Coimbatore, Tinnevely, and in the Wynaad Talook of Malabar, the work was limited to demarcation.

12. The out-turn of work in these Districts as well as the expenditure were less than in the previous year 1863. The chief reasons for the former are stated to be that, both at the beginning and end of the year, the Nellore party was for some time without work waiting for orders, and that no credit is taken for the re-demarcation with stone of two Talooks, which, in the first instance, had been demarcated with earthen marks only.

13. The total work and cost in the year under report compared with the preceding year 1863, were as follow:—

Demarcation 1863.		Total cost.	
Total extent.		Rupees.	
Square miles.			
3,742			2,09,448
Demarcation 1864.		Rupees.	
Square miles.			
2,398			2,00,901
Classification and Assessment 1863.		Rupees.	
Square miles.			
1,532			1,17,249
Classification and Assessment 1864.		Rupees.	
Square miles.			
1,080			1,17,513
Total expenditure.		1863.	
		Rupees.	
		3,26,697	
		1864.	
		Rupees.	
		3,23,356 (including Rupees 4,942	
		"not debitable to parties.")	

14. The decrease in the actual expenditure below the sanctioned amount was Rupees 1,42,513, and it is attributed to the field establishments not having been maintained at their full strength, and to some savings having been effected in the Central Office charges.

15. *Godavery.*—The work done in this District by the small office establishment retained in it, aided by extra servants, was as follows:—

Duplicate copies of the English Settlement Registers of numerous villages were prepared, and other Registers were corrected to correspond with revisions of classifications made subsequent to the preparation of the original Registers. The village of Dowlaishweram recently transferred to Government, and numerous extensive tracts of waste land were demarcated, classified, and measured.

16. *Nellore.*—Besides the re-demarcation with stone of the two Talooks alluded to in paragraph 12 above, waste blocks were marked out for survey, errors in original demarcation were revised and corrected, and many boundary disputes were settled.

17. Under the Order of Government, dated 27th December 1864, the bulk of the establishment was detached for preliminary Settlement operations under the Collector.

18. *Kistna.*—No fresh field work was carried on in this District, and the office work, prepared for the introduction of the Settlement, was swept away by the cyclone of 1st November 1864.

19. The new assessment, however, was calculated on the fields of two hundred and ten villages of the Bunder, Gudiwada, and Bezwada Talooks by the end of the year. Arrangements are to be made to introduce the new Settlement in the current Fusly, and the villages for which the accounts have been lost will be re-classified in time to allow of their being settled with the rest of the District.

20. *Kurnool.*—The field work remaining to be done was completed. Revision of the original work was found necessary in portions of the tracts already completed. The introduction of the new Settlement has advanced considerably, as noticed in paragraph 6 above.

21. *Cuddapah.*—Many difficulties are stated to have been met with in carrying on the field work in this District, which, however, is reported to be virtually completed in the four northern Talooks of the District.

22. *Trichinopoly.*—The Establishments in this District were engaged in miscellaneous work up to the end of March, and after that with the work connected with the introduction of the Settlement.

23. Thirty copies each of the Registers of one hundred and sixteen villages of this District were printed before the end of the year, under a contract made with Graves and Co. to print the Registers of the whole District in diglott, at the rate of six Annas a page.

24. *Salem.*—The revision of demarcation was satisfactorily carried on in eighty-one villages out of three hundred and eleven villages which were subdivided.

25. The final settlement of the boundary disputes, in the estates on the Sheraroy Hills, has been carried out under the arrangement sanctioned by Government in Order, No. 536, dated 1st April 1864.

26. *Tinnevely.*—The demarcation of the whole District has probably by this time been completed, as only one hundred and twenty-five villages in the Strivalliputtur Talook remained to be so dealt with at the date of the Officiating Director's Report under disposal.

27. Two whole months, it is stated, were devoted to the re-demarcation of the Tenkarai Talook, the soil of which is composed of loose sand, and no stone being procurable, the earthenmarks put up at first totally disappeared before the Survey began.

28. The Officiating Director does not state *what* interval elapsed between Demarcation and Survey, nor does he explain the cause of the delay, if any, which might have occurred between the two operations.

29. In the Board's Standing Circular, No. LV., dated 22nd May 1863, the village authorities are instructed to satisfy themselves that the village and field boundaries have been properly erected before the demarcation officers leave the locality, and are held responsible thenceforward for the careful maintenance of the marks: and if the demarcation of the Tenkarai Talook took place subsequent to the Board's Circular, the Officiating Director should have reported the disappearance of the marks to the Collector for such notice as the Collector may have considered necessary.

30. *Coimbatore.*—A portion of the Establishment was engaged in revising work done before in the Coimbatore, Pulladam, and Sattimungalum Talooks. The work lately performed is reported to be more satisfactory.

31. *Wynaad.*—The demarcation after the first eight months was made over to the Collector as reported in the Board's last Annual Report, dated 2nd November 1864, No. 7,188.

32. Seven hundred and eighty-nine villages, comprising an extent of upwards of 1,600 square miles, which were demarcated, were made over to the Survey Department.

33. Survey areas were received for seven hundred and sixty-seven villages, comprising 1,710 square miles.

34. Two neatly executed Sketch maps (rough and fair copies) of the Godavery District are forwarded, the distinctive feature in one being that the Talook boundaries are more plainly marked in it than in the other which, however, shews the wet from the dry cultivation, a distinction omitted to be shewn in the former.

35. The Board are not prepared to recommend, as suggested by Mr. Master and Colonel Priestley, that the gaps in the Talook and District Maps, consisting of proprietary tracts, and worthless jungly wastes, should be filled up at an additional expense with topographical details.

36. *Survey Department.*—Survey operations were carried on in the following Districts in the year under report:—

Salem including the Shervaroys and Coimbatore...	Party No. 1.
Kurnool and Godavery	" " 2.
Kistna	" " 3.
Tinnevely	" " 4.
Nellore	" " 5.
Wynaad... ..	Special Party.

37. Party No. 1 surveyed 38,794 square miles, and the expenditure incurred was Rupees 73,497-14-0, being Rupees 189-7-3 per square mile. The great cost is attributed chiefly to three hundred and eleven villages having had to be sub-divided, and eighty-one villages re-demarcated, re-measured, and sub-divided of original defective demarcation, and to a great part of the country consisting of jungle, rocks, and small hills alternating with cultivated land, and rendering Survey difficult. On the completion of the District, it is expected that the whole work will not have cost more than ninety-four Rupees per square mile.

38. The Superintendent of Survey should be called on to state what time elapsed between the demarcation and survey, and if the interval were considerable, what steps were taken to preserve the demarcation marks by the Revenue Authorities; also to particularize what further sub-divisions were needed, and why, and whether any pressure was placed on the Demarcation party to hurry through their work when the Survey party was already furnished with a great deal more work than they could perform in a reasonable time.

39. It is also reported in paragraph 11 of the Survey Report that three hundred and seventy-five villages were altogether excluded from the Survey, the cultivation being too partial and scattered to warrant the expense of a detailed Survey, and that these villages have been nominally demarcated. The Board do not clearly understand to what operations the term nominal is here applied, and would be glad to have fuller information on the subject. Were any propositions submitted by the officer in charge of the demarcation to substitute natural boundaries for artificial ones through such country, and if so, the Superintendent should explain why the proposal was rejected. The Board also desire to know how long after the demarcation had been completed, the operations of the Survey party commenced.

40. The boundary disputes on the Shervaroy Hills have been all settled, as stated in paragraph 25 above. A corrected map has been prepared, and several blocks of land have been surveyed under the waste land rules.

41. *Party No. 2.*—The area surveyed was 775 square miles, and the total expenditure Rupees 80,741-15-6, averaging Rupees 104-2-11 per square mile: all the villages in the Kurnool District, which will come under the influence of the Irrigation Company's Canal, have been surveyed, and the areas are being supplied with as little delay as possible to the Settlement Department.

42. In the Godavery District the village of Dowlaishweram has been surveyed. Five detached villages in the Yernagaden and Ellore Talooks have been connected with the nearest main circuits. The roads in the Yernagaden Talook have been shewn in the Village map, and the Telegraph lines through the District have been surveyed for insertion in the District map. Besides which three Talook maps, and a great number of Village maps were completed, and all the Village maps of the District have been sent to the Central Office.

43. The total expenditure on the District is given at Rupees 3,08,750-11-4, and the area surveyed was 3391-95 square miles, so that the average cost per square mile is Rupees 91-0-4. No further expenditure on account of the Survey appears to be necessary for this District, and any little work that may be still required, Colonel Priestley states can be performed in the Guntoor Office.

44. *Party No. 3.*—Commenced operations in the Vinukonda Talook in the early part of the year.

From May to December the Tumeracoda division of the Palnad was surveyed. Altogether 835-72 square miles were surveyed during the year at a cost of Rupees 81,193-9-7, the average per square mile being Rupees 97-2-6.

45. The maps destroyed by the cyclone have been in great part re-placed. The damaged records in the Compiler's Department are being re-prepared, and the records of the field work appear to have sustained no important injury.

46. Two hundred and seventy-seven Curnums in the Krosur and Guntoor Talooks, and the Tumeracoda division of the Palnad, have been instructed in the Khasrah system of measuring fields and their included holdings, and calculating their areas.

47. *Party No. 4.*—The operations were confined to the Talooks of Ambasamudram, Tinnevely, Tenkasi, and Nangavary. The area measured was 321-22 miles, at a cost of Rupees 49,339-1-11, the average being Rupees 153-9-6 per square mile. The number of small circuits, their defective demarcation, and the utter disappearance of the marks in some instances in the Tenkasi Talook, are stated to have caused the small out-turn of work, and the corresponding increase in the cost.

48. *Party No. 5.*—Square miles 1018-16 were surveyed at a cost of Rupees 68,506-7-11, being Rupees 67-3-8 per square mile. The Survey areas, &c., for the whole of the Nellore Talook have been furnished to the Settlement Department. The examination of the topographical details in the map of Nellore itself proved unsatisfactory, and steps have been taken to rectify the discrepancies detected. The maps of the other villages should also be examined in order to their correction where inaccurate.

49. *Special Party, Wynaad.*—The examination of forty-four estates was completed by Mr. Starr, the Central Office Assistant, and the signature of the proprietors or agents obtained. Owing to scarcity of labor and much sickness, the work could not be prosecuted so vigorously and satisfactorily as the Settlement of the disputes on the Shervaroy Hills, which was carried out on a similar plan.

50. The long experience gained in the Department has enabled the Superintendent to issue a revised set of rules and instructions for executing each process of Survey computation and mapping. It appears that the general use of the computing scale has simplified the process of obtaining the area of fields, and has also the advantage of great accuracy.

51. Stamps for topographical details and figures have been introduced with the view to facilitate the preparation of the maps.

52. The Lithographic Press has printed 30,880 copies of Village maps, one Talook, and one District map, at a cost of Rupees 8,484-0-2, the average being reported to be Rupees 3-6-10 per mile, or Rupees 0-12-7 in excess of the cost of the previous year.

53. The Revenue Survey was connected to four Great Trigonometrical Survey stations, and the general average error does not exceed 9-4 feet per mile.

54. The total area measured during the year was square miles 3338-04, and the total expenditure incurred, including all charges, was Rupees 4,20,835-8-0, being at the rate of Rupees 126-1-2 per square mile, or three Annas and two Pice per acre on the whole area surveyed. The share of the Central Office in the above total cost was Rupees 22,093-1-6.

55. The above rate of Rupees 126-1-2 greatly exceeds the rate (Rupees 87-7-0) of the previous year.

56. The cost in the two completed Districts of Trichinopoly and Godavery was Rupees 68-11-2 per square mile in the former, and Rupees 95-0-9 in the latter, or Annas 1-8 and Annas 2-5 per acre respectively, which is not considered very unsatisfactory.

57. For the completed Talooks of Districts still under Survey, the following Statement is submitted:—

	Square miles.	Cost per mile.
Kistna, four Talooks	1783-34	91 13 4
Salem, five Talooks	2105-21	100 12 5
Nellore, one Talook	636-14	127 12 2

No. 173. ORDER THEREON, 10th October 1865, No. 2,454.

Land Revenue.

1. Ordered to be recorded.

2. The progress in 1864 appears to have been on the whole satisfactory, and it is hoped that the transfer of Demarcation to the Survey Department will prove a successful measure.

3. The Godavery District Map should be lithographed.

(Signed) W. HUDLESTON,
Acting Secretary to Government.

No. 510
16.

REVENUE SETTLEMENT OFFICE,
MADRAS.
23rd May 1865.

From R. E. MASTER, Esq.,
Officiating Director of Revenue Settlement,

To R. A. DALYELL, Esq.,
Acting Secretary to the Board of Revenue.

SIR,

Opening remarks.—1. I have the honor to report on the state and progress of the Settlement operations during the year 1864, and to submit a report from the Superintendent of Revenue Survey on the work of his Department for the same period. The transmission of this report has been unavoidably delayed owing to my absence on duty in the Kurnool, Coimbatore, Kistna and Godavery Districts in the months of January, March and April last.

Result of the new Settlement in the Chidambaram taluk of South Arcot.—2. The new Settlement has been in force in 337 villages of the Chidambaram taluk of South Arcot for the last 4 years, and the result is considered both by Government and the Secretary of State to be satisfactory. The demand for Fusly 1273 was Rupees 5,19,142, being Rupees 7,716 in excess of that of the previous year, and only Rupees 3,416 less than the heriz of the year preceding the introduction of the new Settlement. There can be little doubt that this small deficiency will be made good in the current year.

Result of the new Settlement in the Western Delta taluks of the Godavery District.—3. In paragraphs 3 and 4 of my last year's Report,* I stated that the demand for Fusly 1273 on the villages in the Western Delta taluks in which the new Settlement is in force, amounted to Rupees 6,60,763, but that this amount would be reduced by the remission of water rate in course of being granted under the Board's orders marginally quoted. This remission amounted to Rupees 42,273, and the actual net demand was therefore Rupees 6,18,490. The demand for Fusly 1274 on the lands in occupation is Rupees 6,34,613, shewing an increase of Rupees 16,123 over the settled demand of the year before, and of Rupees 63,240 over the joint rents of Fusly 1271, the year prior to the introduction of the new Settlement. The eventual full demand on the lands now occupied will be Rupees 6,35,987 or Rupees 64,614 in excess of the joint rents of Fusly 1271. The indulgence granted to the Ryots of paying their increased assessment gradually, has almost ceased to have effect, the difference between the eventual full demand and that now paid being only Rupees 1,374.

Introduction of the new Settlement in the Trichinopoly, Kurnool and Kistna Districts.—4. The orders of Government sanctioning a scale of rates for the Trichinopoly District were passed on the 5th April, and the introduction of the new Settlement was commenced by the Deputy Director Mr. R. K. Puckle early in the following month. By the end of the year the four taluks of Perambalur, Musiry, Kudatalai and Trichinopoly, comprising 887 villages, had been settled, though the registers, chittahs and puttahs could not be finally completed for more than 518 villages. In December, the orders fixing the per centage to be charged on account of the emoluments of village officers were received, and the necessary additions were made in the

prison, the Surgeon and the
all matters relating to the sick
supervised by the sick criminal
who was named to be

house itself, it is men that constitute
prisons. Obviously, in such places
could not be had, nor could direct

rough Puttahs to be issued to the Ryots. Many more villages have since been settled, and the whole District will now in a very short time be completed. The work of printing the Settlement Registers is in active progress.

5. The proposed Settlement for the four taluks of Kurnool Proper received the sanction of Government on the 6th August 1864; and the necessary accounts for its introduction were prepared during the last quarter of the year. The Settlement itself has since been introduced and explained to the Ryots of 118 villages of the Ramalkota, Nundikotkur and Nundial taluks for which the Survey field areas had been received. The financial results of the Settlement, as far as they are known, were reported to the Board in my letters of the 7th November 1864, No. 1,341, and 20th December following, No. 1,495, communicated to Government with the Board's Proceedings, dated the 18th November 1864, No. 7,538, and 17th January 1865, No. 275. As many more villages as possible will be settled this year, and the remainder, for which Survey areas may not be received in sufficient time, will be disposed of next year.

6. The Settlement of the Masulipatam portion of the Kistna District was sanctioned by Government on the 30th September 1864, and had not the cyclone of the 1st November rendered its immediate introduction impracticable, would have been carried out in the current Fyly. The unavoidable necessity of deferring this measure was reported to Government in my letters of the 12th December 1864, No. 1,457 and 5th January 1865, No. 24.

Proposals for the Settlement of other Districts.—7. The Report on the Settlement of the Central and Eastern Deltas and up-land taluks of the Godavery District based on the Survey areas was forwarded to Government by the Board with their Proceedings, dated the 4th ultimo, and is now under consideration.* As soon as the final orders of Government thereon are received, the necessary arrangements will be made for the introduction of the Settlement simultaneously with the Jamabundy of the coming Fyly.

8. A proposal for the Settlement of the Salem District, for which the Survey areas have been received, will be submitted in due course, Mr. Puckle being about shortly to visit the District for that purpose in accordance with Government Order dated the 26th January 1865, No. 123. The submission of the Settlement Report for the Guntoor portion of the Kistna District is deferred pending the receipt of the true Survey areas for all the taluks, as well as pending the re-classification of some 1,000 square miles, the accounts for which were lost in the inundation. An extra party for the accomplishment of the work last named will be shortly organized in accordance with the Order of Government, dated 10th instant, No. 970.

Scene of operations during the year 1864.—9. During the year under report, field operations were carried on in the Districts of Nellore, Cuddapah, Coimbatore, and Tinnevely; in the taluk of Koilkuntla in Kurnool, and in the Wynad taluk of Malabar. In Kurnool and Cuddapah the work consisted of demarcation and classification combined. In the other Districts it was limited, under Government Order of 27th December 1860, No. 2,334, to demarcation only. The out-turn of work in the several Districts, and the expenditure incurred are exhibited in detail in Appendix A, of which the following is an abstract. The results for the year 1863, are also shown in the abstract in juxta position. It will be observed that the area demarcated in 1864 is less than the out-turn of the previous year by 1,344 square miles. The chief reasons for this are, that both at the beginning and at the end of the year the Nellore party was for some time without work, waiting for orders, and that no credit is taken for the work in which it was mainly employed, viz., in re-demarcating with stone two taluks covering an area of 1,061 square miles, which, in the first instance, had been demarcated with earthen marks only. If this virtually fresh work be added, the real decrease is only 283 square miles, a decrease sufficiently accounted for by the employment of a portion of the establishments of Kurnool, Coimbatore and Tinnevely in revision, and by the greater difficulties than usual encountered in the Cuddapah District. These difficulties necessarily affected the classification also, in which branch there is a decrease of 452 square miles. There is a diminution in the total expenditure of the year which will be explained in the sequel.

* NOTE.—The order of Government sanctioning the Settlement dated 23rd May 1865, No. 1,096 has been received during the passing of this Report through the Press.

Names of Districts.	DEMARCATON.						CLASSIFICATION AND ASSESSMENT.										Total expenditure.	Difference.
	Extent in square miles.		Expenditure.		Average cost per square mile.		Extent in square miles.		Expenditure.		Average cost per square mile.		1864		1863			
	1864	1863	Rs.	Rs.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	Rs.	Rs.	Rs.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Godavery.....	...	...	110	462	...	...	...	...	9,432	10,303	...	...	9,542	10,765	—1,223			
Nellore	...	641	44,009	45,078	...	70 5 2	...	...	...	...	...	...	44,009	45,078	—1,069			
Kistna.....	...	...	812	10,263	...	...	...	...	4,403	18,519	...	...	5,215	28,812	—23,597			
Kurnool	4 559	...	4,569	44,188	...	79 0 9	21 1523	...	6,696	47,299	...	...	11,265	91,457	—80,222			
Cuddapah	1079	...	42,609	...	39 7 10	...	1034	...	42,451	...	40 4 5	...	85,060	.....	+85,000			
Trichinopoly	...	9	.....	148	...	...	...	9	54,531	41,098	...	...	54,531	41,246	+13,285			
Salem	...	...	15,928	12,965	...	...	...	...	.....	.....	...	...	15,928	12,965	+2,933			
Tinnevely	571 1547	...	40,463	45,360	70 13 10	29 5 3	...	...	.....	.....	...	...	40,463	45,360	—4,897			
Coimbatore.....	674 883	...	48,143	44,532	71 6 10	50 6 11	...	...	.....	.....	...	...	48,143	44,532	+3,611			
Wynad.....	65 103	...	4,258	6,452	65 8 2	62 10 3	...	...	.....	.....	...	...	4,258	6,452	—2,194			
Total.....	2398 3742	...	2,00,901	2,09,448	...	...	1080 1532	...	1,17,513	1,17,219	...	...	3,18,414	3,26,697	—8,283			
Add charges not debitable to parties .....	...	...	.....	.....	...	...	...	...	.....	.....	...	...	4,942	.....	.....			
Grand Total .....	...	...	.....	.....	...	...	...	...	.....	.....	...	...	3,23,356	.....	—3,341			

Godavery.—10. The small office establishment retained in the Godavery District was employed with the aid of extra servants in preparing duplicate copies of English Settlement Registers for each of 378 villages in the Eastern and Central Deltas and in the up-land taluks, the column of assessment being left blank pending the orders of Government, and in correcting the Settlement Registers of the Western Delta so as to make them correspond with the revised classification of the wet and dry lands in accordance with the examination made under the superintendence of the Sub-Collector. The village of Dowlaiswaram, made over to Government by the Zemindar of Pittapur in exchange for the villages of Oopada and Aminbada, was also demarcated for survey and classified during the year under report, and numerous extensive tracts of waste land, not originally demarcated in detail, but newly taken up for cultivation, were, on the requisition of the local Revenue Officers, demarcated, classified and measured. The expenditure was less than in the previous year owing to there having been no debit against it for European superintendence as in former years.

Nellore.—11. The field demarcation in Nellore was all but completed by the end of the year 1863, a few square miles of demarcation and some out-standing boundary disputes alone remaining to be disposed of. I accordingly addressed the Board on the 5th January 1864, requesting orders as to the future employment of the party. My letter was forwarded to Government, with the Board's Proceedings of the 9th idem. On the 15th February, I again addressed Government direct, requesting early orders; and recommending, that if no determination had yet been arrived at as to the locality in which the party should be employed, it might be advantageously set to work to renew the demarcation of the Nellore and Atmakur taluks. No orders having been received, and the party being without work, I took upon myself the responsibility of employing it in the manner I had recommended, and reported that I had done so in my letter to Government, dated 26th February 1864, No. 297. The demarcation of the above two taluks, which was in the first instance, unavoidably effected with earthen mounds only, has now been renewed throughout in the most substantial manner with stone. In addition to the above work, waste blocks required for cultivation were, on the requisition of the Revenue authorities, marked out for survey, and a small establishment was employed as usual in revising and correcting on the spot, such errors in the demarcation as were from time to time brought to notice by the Survey Department. 18 important boundary disputes were formally investigated and settled under the provisions of Act XXVIII of 1860, besides 67 minor disputes adjusted by amicable arrangement or by informal arbitration. The arbitration clauses of the boundary Act have been worked to a greater extent in Nellore than in any other District, no less than 60 important disputes having been thus adjusted since the commencement of operations. The procedure has in practice proved somewhat slow and tedious; but it has this great advantage, that the disputes thus disposed of are finally settled, and cannot afterwards be re-opened.

12. The demarcation in the above two taluks having been renewed, I solicited orders as to the disposal of the party in my letter of the 8th October 1864, No. 1,190, submitted to Government with the Board's Proceedings of the 17th idem No. 6,831, and at the end of the year, the bulk of the establishment was detached for preliminary Settlement operations under the Collector in accordance with the Order of Government, dated the 27th December 1864, No. 2,326. The decrease in the charges during the past year is attributable to the gradual reduction of establishments which had been temporarily raised in order that the District might be the sooner completed.

Kistna.—13. No fresh field work was carried on in the Kistna District during the year under report, a few hands only having been employed in correcting, under the orders of the Survey Officers, trifling errors and discrepancies in the demarcation. A very small office establishment was maintained, and was employed in entering the survey areas in the classification Registers of the Guntoor villages, making abstracts of the classification, preparing statements of financial results, and in other miscellaneous work pending the receipt of the Orders of Government on the Settlement of the Masulipatam portion of the District. On the receipt of those orders the establishment was strengthened and considerable progress had been

made in the preparation of the accounts required for the introduction of the Settlement, when the Settlement office and its contents were swept away in the inundation of the 1st November. The extent of damage caused by this calamity and the measures adopted in consequence, have been separately reported. It will suffice here to state that the month of November was chiefly spent in drying and re-arranging the records recovered after the storm. A new Office was opened, the establishment was re-organized, and by the end of the year, the assessment, at the sanctioned rates, had been calculated on the fields of 210 villages of the Bunder, Gudiwada and Bezwada taluks. Arrangements will be made to introduce the new Settlement in the coming Fusly. The villages for which the accounts have been lost, will be re-classified by the party alluded to above in paragraph 8, in time to allow of their being settled with the rest of the District. The great decrease in the expenditure in this District is owing to the reduced establishments maintained during the past year.

Kurnool.—14. The field work in the 5 taluks of the Kurnool District taken up by this Department, had been very nearly completed by the end of 1863, and the balance remaining to be performed in the Koilkuntla taluk was brought to account in the year under report. Revision was found necessary in portions of the Nundial and Sirwell taluks, the work in some of the unhealthy villages bordering on the Hill range, having been too hurriedly performed in the first instance, and the opportunity was at the same time taken to demarcate fresh land required for occupation. A few hands were also detached as usual for trifling corrections under the Survey officers. On the receipt of the orders of Government sanctioning the revised Settlement for the 4 taluks of Kurnool Proper, an extra establishment was employed to prepare accounts, &c. The commencement of the introduction of the Settlement has been already alluded to in paragraph 5. The large reduction of expenditure in this District is owing to the transfer of the main body of the party to Cuddapah.

Cuddapah.—15. In Cuddapah the progress made has been, on the whole, satisfactory, though the Officiating Deputy Director has encountered many difficulties which caused the actual out-turn of field work to be less than usual. Some time was necessarily occupied in the transfer of the party from Kurnool at the beginning of the year, and a portion remained behind to accomplish the revision mentioned in paragraph 14. The demarcation proved tedious and complicated. In the Jamalmadugu, the ground was stony, the fields of a very small size, the villages distant from the lands to be demarcated and the petty boundary disputes numerous; sickness prevailed, not only among the Settlement servants, but also among the people, and it was consequently difficult to procure the attendance of either the ryots or the Curnums. Even when made to attend, the latter were found in many cases inefficient and wanting in intelligence, and the former apathetic and obstinate. On the Poddatur taluk being taken up, no stones were in readiness for field marks, though notice had been sent to the ryots several months before-hand to prepare them. In the Cuddapah taluk the ryots were more manageable, but the small sizes of the fields and the large extent of wet and garden land continued to impede the work. It was found necessary to dismiss several servants for misconduct, and time was lost in training fresh hands to supply their places. Mr. Melville was also deprived for six months of the services of one of his Assistants who was obliged to take sick leave.

16. In spite, however, of the above obstacles, the field work in the four Northern taluks of the District is now virtually completed, and I have every reason to believe that it has been done in the usual good style of the party. I had an opportunity of inspecting the demarcation in two taluks in January last, and found it well and substantially performed. The expenditure, though not unduly high, is larger than in the other Districts owing to the party being maintained at the full sanctioned strength with a full staff of European officers.

Trichinopoly.—17. The establishments in Trichinopoly were engaged during the first three months in comparing Putabs and Registers, and making corrections in the latter. A good deal of miscellaneous work was also completed and fieldwar lists of Inams for numerous villages were handed over to the Inam Commissioner. From April till the end of the year all hands were busily engaged with the work connected with the introduction of Settlement.

18. On the 9th August 1864, a contract was signed by Messrs. Graves and Co., to print the Trichinopoly Registers in diglott at the rate of 6 Annas a page, and 30 copies each of the Registers of 116 villages were printed before the end of the year. It was found necessary to re-write the manuscript Registers on one side only, in the form most convenient for printing, and an establishment has been specially employed in preparing diglott Registers for the press.

19. The demarcation Registers for 4 taluks were distributed to the Curnums, and the classification records of 3 taluks were forwarded to the Collector for record.

20. The increase in the expenditure, Rupees 13,285, is owing to the enlarged establishments entertained for the completion of the accounts connected with the introduction of the Settlement, to the debit to the Department of the pay of the substitute appointed to act for the Head Revenue Sheristadar, whose services were placed at Mr. Puckle's disposal, and to the printing of Settlement Registers.

Salem.—21. In Salem, revision of demarcation was successfully carried on in the Womalur, Senkagiri, Kistnagiri and Oosoor, &c., taluks. About 311 villages were sub-divided, and 81 re-demarcated. Mr. Puckle reports that the manner in which the work was performed has met with the approval of the Survey Department.

22. The arrangement sanctioned in Government Order, dated the 1st April 1863, No. 536, for the final settlement of the boundary disputes in the estates on the Shevaroy Hills, has been carried out by the Collector aided by Mr. Beaumont of the Survey Department. The debit to the Settlement Department of the pay and allowances of that gentleman during the period he was so employed is the chief cause of the increase in the expenditure.

Tinnevely.—23. In Tinnevely, the area demarcated is much below the work of the previous year in which the out-turn was unusually large. It must be admitted that the work in 1863 was too hurriedly performed; sufficient attention was not paid to quality, and, as a necessary consequence, a good deal of it had to be revised and corrected in 1864, to the detriment of the progress of the current work. All the revision required, however, was not attributable to the fault of the Department. Two whole months were devoted to the re-demarcation of the Tenkarai taluk, the soil of which is composed of loose sand, and no stone being procurable, the earthen marks put up in the first instance totally disappeared in the interval which elapsed between demarcation and Survey, and the demarcation had to be done over again.

24. With the exception of about 125 villages in Strivalliputtur, the demarcation of the whole District has been completed, and the work will probably be brought to a close next month. The expenditure in Tinnevely is considerably below that of last year owing to the absence on sick leave of one of the European Assistants attached to the party.

25. The Superintendent of Revenue Survey in his Report for 1863 complained of the defective demarcation in Tinnevely, and I observe that he alludes to the subject again in his present Report. His strictures, however, refer to the taluks first demarcated, and in which the work has since been revised. Mr. Puckle gives a much better account of the later work and anticipates that the Survey Department will be quite satisfied with it. Mr. Symonds states that the work has been carefully and thoroughly performed, that the marks are of a permanent character and that the convenience of the Survey has been studied in every respect.

Coimbatore.—26. The area demarcated in Coimbatore was less than in the previous year, owing to a portion of the establishment having been employed in the revision of back work in the Coimbatore, Palladam, and Sattimungalum taluks, originally executed under the late Acting Deputy Director. The Board and Government are aware of the circumstances under which the work in this party was carried on, and which, ultimately, led to the removal from the Department of the gentleman above alluded to. His successor has had to contend against the same inferiority of agency for which the party has all along been unenviably distinguished, and many dismissals have been found necessary, notwithstanding the difficulty of obtaining fresh men in place of those

whose services have been dispensed with. I visited the District in March in company with the Acting Superintendent of Revenue Survey and inspected a portion of the work lately performed, with which, on the whole, we were satisfied. The increase of expenditure, Rupees 3,611, during the past year is owing mainly to the Assistant Director in charge of the party being a Major in the Staff Corps, and consequently drawing larger allowances than his predecessor who was an Uncovenanted Officer.

Wynad.—27. The area entered as demarcated in the Wynad taluk represents the work of the first eight months of the year only, the party having been broken up, and the demarcation made over to the Collector from 1st September last under the Order of Government, dated the 2nd August 1864, No. 1,374. The progress of the work was, as usual, much impeded by the heavy rains and scarcity of labor, and more than usual by sickness, the season having been a particularly unhealthy one. The decrease in the expenditure is owing to the maintenance of the establishment for a portion of the year only.

28. The following Statement shows the total expenditure of the year compared with that of the previous one, and also with the sanctioned amount. The latter includes the various items entered in the Budget Estimates of the Department for 1863-64 and 1864-65, one-third of the former and two-thirds of the latter being taken, those being the proportions of the two official years comprising the Calendar year now under report. The decrease in the actual expenditure below the sanctioned amount is owing to the field establishments not having been maintained at full strength, and to the saving effected in the Central office charges. The item of Rupees 4,942, entered at the foot of the Statement consists of the pay of officers absent on sick leave, and not attached to any particular party and of the allowance paid from the Settlement funds to the late Mr. W. C. Stuart, Deputy Collector of Madura, under the Order of Government, dated 2nd May 1864, No. 761.

Districts.	Sanctioned amount for the year 1864.	Actual expenditure in 1863.	Actual expenditure in 1864.	Difference between Columns 2 and 4.	Difference between Columns 3 and 4.
1	2	3	4	5	6
	RS.	RS.	RS.	RS.	RS.
Godavery.....	85,098	8,548	7,149	— 44,953	— 4,578
Nellore... ..		36,175	32,996		
Kistna	1,22,151	22,619	4,589	— 31,017	— 15,428
Kurnool		80,943	10,314		
Cuddapah. ... ..		.....	73,231		
Salem... ..	1,09,245	11,555	14,003	— 11,728	+ 9,066
Trichinopoly.		36,696	47,941		
Tinnevely		40,260	35,573		
Coimbatore... ..	82,603	34,767	35,740	— 43,607	— 868
Wynad... ..	66,772	5,097	3,256	— 13,150	+ 3,525
Central office.		50,097	53,622		
Total.....	4,65,869	3,26,697	3,18,414	— 1,47,455	— 8,283
Add charges not debit- able to parties ... ..	.....	....	4,942	.....	.....
Grand Total ..	4,65,869	3,26,697	3,23,356	— 1,42,513	— 3,341

Erection of boundary pillars.—29. 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. The pillars are of the same material as those described in paragraphs 39 to 42 of my last Annual Report.

Items.	Total.
<i>Village boundaries.</i>	
Villages... ..	593
Khandams or Sub-divisions... ..	5,796
Trijunction pillars... ..	4,034
Secondary pillars... ..	15,836
Other marks on village boundaries... ..	27,974
Marks on Khandams... ..	84,223
<i>Field boundaries.</i>	
Number of villages... ..	469
Villages divided into } Number of Villages... ..	425
Khandams. } Number of Khandams... ..	4,730
Number of fields marked... ..	2,59,590

Villages made over to Survey.—30. 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	199	1,118
Kurnool... ..	86	437
Tinnevely... ..	479	.....
Coimbatore... ..	25	45

Ready for delivery.
Besides the Records of
several villages retrans-
mitted after correction.

31. The records connected with the Wynad demarcation were handed over to the Collector of Malabar.

Villages for which the Survey areas have been received.—32. 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.
Trichinopoly... ..	51	44
Salem... ..	88	104
Kurnool... ..	66	478
Kistna... ..	139	586
Coimbatore... ..	97	121
Nellore... ..	324	1,462
Godavery... ..	2	15

General Remarks.—33. The Godavery District map, which forms an enclosure to Colonel Priestley's Report, has been very neatly executed under Colonel Crewe's superintendence and cannot fail to be most useful to the District officers, when lithographed. The only improvement in it that I can suggest is that the taluk boundaries might with advantage be more distinctly defined. It is no doubt true, as stated by Colonel Priestley, in paragraph 67, that the system of excluding from Survey all Zemindary and Proprietary estates as well as those tracts of country in the Government taluks which are comparatively worthless in a Revenue point of view, leads to unsightly gaps in the taluk and District maps. The extension of operations to these tracts was not considered necessary for Revenue purposes, but I share Colonel Priestley's opinion that it is very desirable that the gaps should be filled up by the insertion of topographical details, if this can be done without any great increase of expense.

34. The uncertainty of the duration of the Department alluded to in paragraph 49 of my last year's Report, continued throughout the past year and necessarily exercised an unfavorable effect on the establishments. The Order of Government of the 12th December last, No. 2,243, has, to a certain extent, removed the uncertainty; but as it has been now determined that the Department will not be permanently maintained, the difficulty of procuring or retaining the services of eligible men continues the same as before.

35. In conclusion it only remains for me to acknowledge the valuable aid and co-operation I have received, during the year, from the Deputy Directors and officers in charge of parties, who, in their turn, report favorably of the conduct of their Assistants.

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 Settlement Parties, and the expenditure incurred thereon, for the year 1864.

Settlement Parties, and the										
Taluku.		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.
Demarcation.			GODAVERY PARTY.			RS.	RS.	RS.	RS. A. P.	
Narsapur....	...	...	...			20	...	20	...	...
Tanuku....	...	...	...			5	...	5	...	...
Undi....	...	...	...			2	...	2	...	...
Peddapur ...	...	...	...			1	...	1	...	...
Rajahmundry.	...	...	...			67	...	67	...	...
Ellore....	...	...	...			15	...	15	...	...
Total...	...	...	...			110	...	110	...	...

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

Classification and Assessment.	Taluks.	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.
						Rs.	Rs.				
Classification and Assessment.	Nursapur...	...	...	...	...	1,263	429	1,692	...	...	...
	Tanuku...	...	...	...	...	1,478	502	1,980	...	...	...
	Undi....	...	...	...	...	1,631	555	2,186	...	...	...
	Amlapur...	...	...	...	...	442	150	592	...	...	...
	Ramachendrapur...	...	...	...	...	1,080	367	1,447	...	...	...
	Rajahmundry...	...	...	...	...	464	158	622	...	...	...
	Peddapur...	...	...	...	...	276	94	370	...	...	...
	Ellore.....	...	...	...	...	124	42	166	...	...	...
	Yernagudem...	...	...	...	...	281	96	377	...	...	...
	Total...	...	...	...	...	7,029	2,393	9,432	...	...	...
Demarcation.	Nellore...	...	...	...	...	11,102	3,717	14,819	...	...	...
	Atmakur...	...	...	...	...	8,275	2,770	11,045	...	...	...
	Rapur...	...	...	...	...	869	291	1,160	...	...	...
	Kavali...	...	...	...	...	945	316	1,261	...	...	...
	Gudur...	...	...	...	...	452	151	603	...	...	...
	Udayagiri...	...	...	...	...	448	150	598	...	...	...
	Kandakur...	...	...	...	...	2,389	800	3,189	...	...	...
	Kanigiri...	...	...	...	...	3,448	1,154	4,602	...	...	...
	Ongole...	...	...	...	...	4,631	1,550	6,181	...	...	...
	Suvarikotta...	...	...	...	...	340	114	454	...	...	...
Total...	...	...	...	...	32,899	11,013	43,912	...	...	...	
Add cost of boundary pillars.						...	...	97	...	...	
Demarcation.	Rajapet ..	...	...	...	...	169	...	169	...	...	...
	Bapatla...	...	...	...	...	202	...	202	...	...	...
	Vinukonda.	...	...	...	...	322	...	322	...	...	...
	Palnad...	...	...	...	...	119	...	119	...	...	...
	Total...	...	...	...	...	812	...	812	...	...	...
Classification and Assessment.	Rajapet...	...	...	...	...	151	25	176	...	...	...
	Bapatla...	...	...	...	...	156	25	181	...	...	...
	Vinukonda.	...	...	...	...	157	26	183	...	...	...
	Palnad...	...	...	...	...	157	26	183	...	...	...
	Repalli ..	...	...	...	...	156	26	182	...	...	...
	Krosur...	...	...	...	...	156	26	182	...	...	...
	Gudiwada.	...	...	...	...	1,196	199	1,395	...	...	...
	Guntoor...	...	...	...	...	151	26	182	...	...	...
	Bandar...	...	...	...	...	995	165	1,160	...	...	...
	Bezawada.	...	...	...	...	340	56	396	...	...	...
Nandigama.	...	...	...	...	157	26	183	...	...	...	
Total...	...	...	...	...	3,777	626	4,403	...	...	...	

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

STATEMENT showing the extent of the work done in the year 1900-1901.																	
Classification and Assessment.	Demarcation.	Classification.	Demarcation.	Classification.	Demarcation.	Taluks.	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.		
									KURNOOL.		RS.	RS.	RS.	RS. A. P.			
						Nandikotkur...	...	...	.....	.....	36	...	36	...	...		
						Nandial...	...	...	.....	.....	631	...	631	...	...		
						Siwell...	...	...	.....	.....	817	...	817	...	...		
						Koilkuntla...	4	...	4	1	1,970	...	1,970	...	...		
						Total...	4	...	4	1	3,454	...	3,454	...	...		
						Add cost of boundary pillars							...	...	1,115	...	...
													4,569	...	...		
						Ramalakotta...	...	...	.....	.....	1,129	187	1,316	...	...		
						Nandikotkur...	...	...	.....	.....	1,129	187	1,316	...	...		
						Koilkuntla...	8	...	26	4	3,487	577	4,064	...	...		
						Total...	8	...	26	4	5,745	951	6,696	...	...		
									CUDDAPAH.								
						Jammalamadugu...	78	...	421	331	11,297	1,871	13,168	...	...		
						Poddatore...	56	5	309	293	10,868	1,799	12,667	...	...		
						Cuddapah...	92	29	319	308	12,853	2,128	14,981	...	...		
						Total...	226	34	1,079	952	35,018	5,798	40,816	...	...		
						Add cost of boundary pillars							...	...	1,793	...	...
													42,609	39	7 10		
						Jammalamadugu...	78	...	421	318	11,107	1,839	12,946	...	...		
						Poddatore...	56	5	304	265	12,174	2,016	14,190	...	...		
						Cuddapah...	92	29	329	260	13,139	2,176	15,315	...	...		
						Total...	226	34	1,054	843	36,420	6,031	42,451	40	4 5		
									TRICHINOPOLY PARTY.								
						Salem District...	...	...	.....	.....	11,003	1,925	15,928	...	...		
						Trichinopoly District...	...	...	.....	.....	47,941	6,590	54,531	...	...		

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

Taluks.	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.
TINNEVELLY DISTRICT.									
Tenkarai...	6	...	2	2	5,110	702	5,812	...	...
Ottapadaram...	13	...	62	56	3,680	505	4,185	...	...
Sankaranainarcovil.	25	...	198	147	9,924	1,364	11,288	...	...
Sattoor...	67	...	256	241	13,143	1,806	14,949	...	...
Strivalliputtur.	15	...	53	53	3,716	513	4,229	...	...
Total...	126	...	571	499	35,573	4,890	40,463	70 13 10	...
COIMBATORE PARTY.									
Palladam...	1	...	...	...	...	...	...	...	...
Sattimungalam...	79	...	203	...	...	...	...	...	...
Bhawany...	26	17	38	13	1,111	395	1,506	...	...
Perundurai...	56	148	321	11	545	193	738	...	...
Darapuram...	...	33	112	112	28,423	10,088	38,511	...	...
Total...	162	199	674	458	4,868	1,727	6,595	...	...
Add cost of boundary pillars...				...	...	...	47,350	...	...
				...	...	...	793	...	...
				...	...	...	48,143	71 6 10	...
WYNAD.									
Wynad...	7	...	...	65	2,822	1,002	3,824	...	...
Add cost of boundary pillars				...	...	...	434	...	...
				...	...	...	4,258	65 8 2	...

ABSTRACT.

District.	Total expenditure of 1864.
Central office...	Rs. 53,622
Godavery...	7,149
Nellore...	32,996
Kistna...	4,589
Kurnool...	10,314
Cuddapah...	73,231
Salem...	14,003
Trichinopoly...	47,911
Tinnevelly...	35,573
Coimbatore...	35,740
Wynad...	3,256
Total...	3,18,414
Add charges not debitabie to parties	4,912
Grand Total...	3,23,356

REVENUE SETTLEMENT OFFICE,
MADRAS, 26th May 1865.

(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 1864.

Items.	Kurnool.	Cuddapah.	Tinnevelly.	Coimbatore.	Wynad.	Total.
1	2	3	4	5	6	7
Village Boundaries.						
Villages.....	40	226	179	141	7	593
Khandams or sub-divisions.	732	2,537	2,054	473	.....	5,796
Tri-junction Pillars	80	338	817	113	2,686	4,034
Secondary do.	977	3,912	4,675	900	5,372	15,836
Other marks on village boundaries.....	1,280	5,777	14,650	6,267	.....	27,974
Marks on Khandams.....	6,997	22,311	36,437	18,478	.....	84,223
Field Boundaries.						
Number of villages.....	4	226	126	113	.....	469
Number of villages divided into Khandams..	4	226	104	91	.....	425
Number of fields marked...	112	2,782	1,225	611	.....	4,730
	4,434	1,29,644	91,182	34,330	.....	2,59,590

REVENUE SETTLEMENT OFFICE,
MADRAS, 23rd May 1865.

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

REPORT ON THE SURVEY OPERATIONS FOR THE YEAR 1864.

No. 1. Revenue Survey, Salem

Amins' measurement completed with the exception of Ossoor taluk.

Completion of circuit work delayed by non-receipt of demarcation Records.

392 villages re-surveyed, owing to defective demarcation.

1. The beginning of 1864 found the Amins' measurement of all the taluks but Ossoor completed; whilst a large quantity of circuit work remained which could not be undertaken till the records had been received from the Demarcation Department.

2. The demarcation of the fields in several villages having been found defective, it had to be revised; re-measurement was consequently necessary.

The number of villages in which this occurred is given below:—

Sub-divided.	Re-demarcated, re-measured, and sub-divided.	Villages.
14	41	Salem... 55
1	20	Senkageri... 21
2	1	Tripatoor... 3
23	1	Ootengeri... 23
128	...	Kistnageri... 128
144	18	Ossoor, including Denkanicota... 162
Total... 311	81	Total... 392

D

Demarcators placed under the direction of Captain Hessey.

Satisfactory conduct of Sasha Iyengar.

Karkoons trained under a Surveyor.

Charge taken by Captain Hessey in March.

Transfer of Mr. Cardozo to Nellore. Transfer of Lieutenant Baynes to Coimbatore.

Transfer of subordinates to other Parties.

By end of 1865, the area of Salem District (excepting Ossoor taluk) will be furnished to the Settlement Department and maps completed.

Dates of completion of the several taluks. Comprising three divisions Raseepur, Salem, and Womalur. will be completed by the end of March.

Senkageri	...	do.	February
Darampore	...	do.	do.
Tripathoor	...	do.	April.
Ootengeri	...	do.	August.
Kistnageri	...	do.	December

Ossoor, in which is included Denkanikota, will be far advanced towards completion.

A portion of the Party employed in Coimbatore.

Circuit work in arrears in the Coimbatore District.

Inadvisability of field measurement advancing angular work.

Cost great.

275 villages altogether excluded from survey.

3. It being found impossible for the Deputy Director to detach an Officer for the express purpose of superintending his men, he was good enough to place them under the direction of Captain Hessey, who, whilst interfering as little as possible with the working of the Department, was able to prevent the servants of the Demarcation and Survey from clashing.

The immediate head of the Party, Supervisor Sasha Iyengar, is reported to have exerted himself greatly and to have given great satisfaction. Many of Mr. Puckle's Karkoons have, at his request, been trained under a Surveyor.

4. Captain Hessey received charge of the Party from Mr. Beaumont in the month of March. Mr. Cardozo was sent to Nellore in that month, and was succeeded in his charge at Coimbatore by Lieutenant Baynes, who was withdrawn from Salem for that purpose.

5. There have been many transfers, and more are ordered. No. 1 has been a training ground for other Parties, for which its mature organization, and the accessibility of Salem by rail, render it especially eligible.

6. At the present moment, the state of work in the Salem District encourages the hope that, with the exception of the Ossoor taluk, by the end of the year 1865, the whole of the areas will be in the hands of the Deputy Director, and the maps lodged in the Superintendent's office.

7. The probable dates of completion of the taluks are given in the margin.

8. During the whole of the year a portion of the Party has been employed in Coimbatore.

9. It was mentioned in paragraph 1, that a great quantity of circuit work remained in the Salem District: for a similar reason the circuit work was in arrears in the Coimbatore District. It was not advisable to push the measurement of fields still further in advance: men were trained for Surveyors as rapidly as possible.

10. The cost of work appears very great, and, in addition to the causes mentioned above, it must be remembered that a great part of the Salem, Ootengeri, Senkageri, and Kistnageri taluks consist of difficult country to survey; jungle, rocks and small hills alternate with cultivated land contrasting disadvantageously with other localities.

11. It has been found necessary to exclude altogether from survey several villages; the cultivation being too partial and scattered to warrant the expense of a detailed survey. When it is con-

Cost excessive by partial survey of villages now excluded.

Work in the District on the whole will be satisfactory.

Approximate cost of a square mile in the District.

Complaints of the proprietors on the Shervaroy Hills.

Mr Beaumont specially deputed to the work on the hills.

Satisfactory completion of the work in two months.

A connected map of Estates has been made, and details examined.

Survey of waste lands

Efforts made to clear off arrears in Coimbatore.

Progress of work dependant on the revision of demarcation.

Revision of demarcation completed in Coimbatore.

Nandikotkur.
Nundial.
Sirwell.
Koilkautla.

Cause of detail survey being retarded.

Recess.

Boundary work resumed in Ramalacota taluk

Survey of Irrigable villages completed.

Area surveyed during the year.

Cost of work.

sidered that these villages have been nominally demarcated, and that a great deal of labor has been expended on them by the survey which is now laid on one side, it is not surprising that the expense has increased very much beyond calculation. It is hoped, however, that the result of the work in the District will not be found unsatisfactory.

12. On the completion of the District, the whole work will not, it is expected, be found to have cost Rupees 93-7-3 per mile.

13. By the close of 1863, the survey of the greater part of the estates on the Shervaroy Hills had been completed; but the owners had almost unanimously declined acknowledging the correctness of their boundaries.

14. At the request of the Collector, Mr. Beaumont was specially appointed to go over the estates, in company with him and the proprietors. At the end of two months, not a single dispute remained. The mistakes in boundaries were not numerous, and were rectified under Mr. Beaumont's orders on the spot.

15. Since then, a connected map has been made, and the topographical details have been examined. Several blocks of land have been surveyed under the waste Rules.

16. In the Coimbatore District, great efforts have been made to clear off the arrears of office work. The progress of the Coimbatore taluk depended on that of the revision of demarcation. That taluk has nearly been completed, and Palladam is making fair progress.

No. 2, Revenue Survey, Kurnool.

17. The survey during the year was carried on in the taluks noted in the margin. All the irrigable villages in these taluks were first undertaken; but their completion (with the exception of those in the Ramalacota taluk) was retarded by the unfinished state of the Irrigation Canal Company's works.

18. In the month of October, the Head Surveyors and Amins came into office for the recess; a few Amins remained in the field till the end of the year to finish the villages in progress in the Nudikotkur taluk. Four Head Surveyors were sent to resume the boundary work in the Ramalacota taluk in December.

19. All the villages in this District, which will come under the influence of the Irrigation Company's Canal, have been surveyed, and the areas are being supplied to the Settlement Department as soon as the maps are plotted.

20. The approximate area surveyed during the year is 4,96,000 acres, or 775 square miles.

21. The expenditure on the party during the year (exclusive of measurement allowance drawn for work performed in former years) was Rupees 76,241-15-6; to this must be added a sum of Rupees 4,500, due for measurement allowance for 1864, making a total of Rupees 80,741-15-6. This makes the cost, Rupees 104-2-11 per square mile, or Rupee 0-2-7 per acre.

Map work retarded.

Field work remaining in the District.

Commencement of field operations, Vinukonda taluk, and one village of Rajapet surveyed.

Theodolite work retarded by jungle not being cleared.

Tumerakodu division of Palnad which completes the demarcated portion of the District surveyed.

Employment of the Deputy and Detail Surveyors.

Guntoor. Rajapet.
Repalli. Vinukonda.
Bapatla. Palnad.

Area surveyed.

22. The map work is in arrears on account of the difficulty of procuring a sufficient number of efficient hands.

23. The following field work remains to be performed in the five taluks which have been handed over by the Settlement Department for survey, which will occupy the field Party for the next six months.

	Villages.	Approximate area in square miles.
Boundary work	97	624
Field work for Amins	78	417

No. 3.—Revenue Survey, Kistna.

24. At the commencement of the year, the field portion of the establishment was at Head Quarters for the recess. Field operations were commenced at the close of the month in the Vinukonda taluk. The taluk being a dry one, and the demarcation generally good, the survey of it was mostly executed without difficulty. The completion of the Theodolite work was very much retarded, as jungle had to be cleared for the survey of numbers that could not be measured by Amins. Further delay occurred in the survey of detached Agraharums, of which the boundaries were only partially defined.

25. The Datchepilly Division of the Palnad was surveyed in 1862. The Tumerakodu Division of this taluk, which alone remained to complete the survey of the demarcated portions of the Government villages, was commenced in May under Mr. Dunsford, who superintended the operations in it till they were nearly completed in December.

26. All the available Deputy and Detail Surveyors, and a few of the best qualified Amins, have been employed throughout the year testing, correcting, and detailing in the six taluks named in the margin. The topographical details of the Bezawada taluk, commenced in 1863, have been finished. Similar work has been undertaken in the Nandigama taluk, and is nearly completed.

27. The traverse areas of the lands surveyed during the year, and different proportions thereof, are as follows :—

No.	Taluks.	Acres.	Square miles.
1	Rajapet... ..	1610.75	2.52
2	Vinukonda	282184.46	440.91
3	Tumerakodu Division of the Palnad... ..	236157.62	368.99
4	Datchepilly do. of do. estimated area	14912.00	23.30
	Total...	534864.83	835.72

* This includes the Gunlakama River, the area of which is 4.09 square miles.

Government land, of which the field measurements have been taken	601.24
Cultivable waste, traversed only	181.23*
Zemindaries	53.25
Agraharums	53.25
Total...	835.72

Undemarcated tract within main circuits excluded from survey area.

Expenditure and cost per square mile and per acre.

Additional map work performed. Maps destroyed by storm of 1st November. Cause of zone being sent to the Central Office.

Destruction of records by Cyclone.

Abstraction of records.

State of the taluk map.

28. There is an extensive tract of undemarcated hill and jungle in the Vinukonda taluk situated within our main circuits, the traverse area of which is 284.24 square miles. No work having been done within the boundary of this tract, its area is excluded in the above Statement of the year's work.

29. The expenditure on the Party during the year, exclusive of measurement allowance drawn for work done in previous years, is Rupees 78,688-12-0. From this, a sum of Rupees 495-2-5, the salaries of men employed on the Godavery work, has to be deducted, and Rupees 3,000 added on account of the undrawn allowance for the year's field measurements, making the cost of the year's work in the Kistna District amount to Rupees 81,193-9-7. The cost per square mile is Rupees 97-2-6, and per acre 0-2-5.

30. In addition to the maps completed for the first time, 78 have been re prepared to replace maps destroyed by the storm of the 1st November; very serious injury was done to the Records by the Cyclone of the night of 1st November. Of 95 maps that were completed and about to be despatched to the Central Office, 43 were destroyed and 40 very materially injured. Besides, these 76 village maps, in different stages of progress, were also destroyed or injured; consequent on this loss, no maps have been received this year in the Central Office. Colonel Crewe states, that 100 maps are now completed and will be sent to the Central Office.

31. The records in the Computer's Department were very much wetted on the night of the storm. After they had been dried, arranged, and examined, a large number of them were found deficient. The demarcation sketches and a few other records had doubtless been destroyed by the wet; but it was evident that advantage had been taken of the opportunity to make away with some Traverses and field Books. Inquiries were made, and information was obtained which led to the recovery of a great portion of the missing records. Such of them as are required are being re-prepared. Fortunately no damage of any importance was done to the records in the field on the occasion of the storm.

32. The Bandar and Bezawada taluk maps (with the exception of trifling work in the latter) are completed. The Nandigama map is in an advanced state, and the plotting of the maps for Repalli, Guntoor, and Bapatla has been commenced.

33. For the Vinukonda taluk, the error of the revenue area calculated on 52 villages is 31 per cent. minus. In the Tumerakodu Division, the revenue area calculated on 24 villages shows an excess of 19 per cent. on the survey area. This is accounted for by some of the jungle of these villages having been excluded from the survey limits; were it not for this the error would show a deficiency estimated by measurement from the sheet map at 13 per cent.

Krosur.....	131
Guntoor.....	110
Tumerakodu division of the Palnad.....	36
	277

34. Two hundred and seventy-seven Curnums, in the three taluks named in the margin, have been instructed in the Khasrah system of measuring fields and their included holdings, and calculating their areas.

35. The demarcation, both in Vinukonda and the Datchepilly Division of the Palnad, was generally found correct and substantial. Three Demarcation Gumastahs, furnished from the Settle-

ment office at Masulipatam, have been employed during the year, making such corrections as have been found requisite in the Rajapet, Vinukonda, and Palnad taluks.

36. A Statement of the survey distances between two of the old Trigonometrical stations that have been connected with our work is given. A comparison of them with the Trigonometrical distances shows an error 8.3 per mile.

37. During the greater part of the year, there has been only one Assistant of the second grade with the Party. In February, Mr. Tomlinson, Assistant Superintendent, left on a month's privilege leave, on his return he sent in his resignation, which was accepted from the 1st May. In June, Sub-Assistant Mr. E. Liepenstein, who had for some time previously been incapacitated by sickness for the performance of his work, went to Madras on sick leave, on the expiration of which he resigned. During the whole of the year, the field and boundary surveys have been in progress at a great distance from the office, the testing, correcting, and detailing work has been spread over an immense area.

No. 2 Branch, Godavery.

38. Dowlaishwaram, in the Rajahmundry taluk, which was a Zemindary village when the survey was made, having been transferred to Government has been surveyed. Its area is 283 square miles. Five detached villages in the Yernagudem and Ellore taluks have been connected with the nearest main circuits. The roads in the Yernagudem taluk have been laid down in the village maps, and the Telegraph lines through the District have been surveyed for insertion in the District.

39. One hundred and ninety-four village maps, with an aggregate area of 835.47 square miles, have been completed, and all the village maps of the District have been sent to the Central office.

Rajahmundry, Square miles.	329.32
Yernagudem	841.42
Ellore	449.27

40. The maps of the three taluks named in the margin, (of which the Rajahmundry map alone was commenced in 1863), representing an area of 1120.01 square miles, have been completed.

41. The expenditure incurred during the year is Rupees 2,851.4-6.

42. The estimate for completing the work given in Colonel Crewe's Report for 1863 was Rupees 1,880. The excess of Rupees 971.4-6 is attributable to the execution of the following work in addition to what was then estimated for; 1st, the survey of Dowlaishwaram, for which a head Surveyor and Ameen and a Detail Surveyor had to go from Guntur; 2nd, correction of detached villages in Yernagudem and Ellore; 3rd, Survey of Telegraph lines; and 4th, preparation of rough and fair copies of Sketch map of the District.

43. This map Colonel Crewe explains, which is drawn on the same scale as the sheet map, viz., 4 miles to one inch, has not been plotted, but is a compilation of the taluk maps reduced by pentagraph. Its accuracy, therefore, is only approximate; still it is quite correct enough for Revenue and all other purposes. In the fair map, the areas of wet and dry cultivation are shown in addition to the ordinary topographical features. The position of the Grand Trigonometrical stations shown in the map, with reference to latitude and longitude, accord with the data obtained from Captain Branfill, the Officer in charge of the Coast series of the Grand Trigonometrical Survey. There is a difference of about 1 between the positions of the meridian of longitude in this and the sheet map. The object of this map is to show at one view the portions of the District that have been surveyed and those that remain untouched by us. Colonel Crewe suggests that if lithographed, it will be found very useful for Revenue and other ordinary purposes, pending the preparation of the proper District map in the Central Survey Office.

44. The total expenditure on the District, amounts to Rupees 3,08,750.11-4. The area surveyed being 3,391.95 square miles, the cost per square mile is Rupees 91.0-4.

45. The cost of surveying Chanbada, of the Kistna District, which is excluded from the above sum, amounts to Rupees 670-6-4.

46. As the maps and all other survey records for the District are now completed, and any little work that may be required can be performed in the Guntur office, no further expenditure will be necessary, and the accounts of the survey can be closed.

No. 4, Revenue Survey, Tinnevely.

47. At the commencement of the year, the Ameens' work being in advance of the Circuit work, the number of Ameens employed was reduced to 22, the number of small Circuits, the defective demarcation of them, and, in some instances, total absence of stones in the Tenkasi taluk rendered it impossible for the Circuit Surveyors to keep up with the Ameens.

48. The party has been principally employed in the Ambasamudram and Tinnevely taluks and clearing up work in Tenkasi. The field Survey of the whole of the villages in the above taluks has been completed, with the exception of 12 in hand, and the whole of the boundaries taken, with the exception of one returned to the Revenue Settlement Department for correction.

49. The Boundary Survey of Nanganary taluk has been commenced, two grand Circuits, 41 village boundaries and minor Circuits taken; but Ameens have not yet been sent into the taluks as they are employed in correcting and detailing in the before-mentioned taluks.

50. The total number of square miles measured, is 321.22, at a cost of 49,339-1-11 Rupees, or 153.9-6 per square mile, or 0-3 10 per acre, including estimated measurement allowance. The out-turn of work is small for reasons before stated; but the actual expense will not be more than Rupees 0-3-6 per acre when the 9 per cent. average excess of actual measurement is taken into account.

No. 5, Revenue Survey, Nellore.

51. On the 1st January, Mr. F. C. Fuckle was in charge of the survey of the Nellore District, and it remained under his superintendence till the 31st March, on which date he left for England on sick leave. Mr. Cardozo was then placed in charge, and handed over the party, on the 16th July to Mr. Beaumont who is still in charge.

52. Lieutenant A. O. H. Clay, 2nd Assistant Superintendent, left on sick leave to Europe on the 1st July.

53. At the beginning of the year, 34 Ameens were at work.

54. Up to 31st December, the average number employed in each month was 50. They worked in the taluks of Gudur, Udayagiri, Kanigiri, Kavali, Kandakur, and Ongole, and the extent measured in fields is 566.89 square miles by 1st Khasreh calculations.

55. The average number of Theodolites at work in each month was 14, and the area surveyed 1018.16 square miles by Revenue accounts. The expenditure during the year was Rupees 68,506-7-11, and the cost per square mile, on boundary areas, Rupees 67.29; or on field areas, Rupees 120.81.

56. The whole of the Nellore taluk has been surveyed and mapped, and the accounts closed and furnished to the Settlement Department. The maps have all been sent to the Central Office, with the exception of Nellore itself, the Topographical details of which are now under examination. The result, up to date, of this examination is, I regret to say, reported as unsatisfactory; steps have been taken to rectify the discrepancies discovered; but from the above Report it is feared that the details of other completed villages are not as accurate as they should be. The expenditure on this taluk is now closed, and amounts to Rupees 77,961-9-2. The total area, by Traverse, of village boundaries surveyed is 636.14 square miles, and the cost per square mile Rupees 122.55.

57. Delay in closing the accounts was caused by the exclusion of the Pennar River and two Hills from the villages adjoining them. The taluk map is in progress.

Atmakur taluk.
34 villages in every respect completed.
Revision in details.
Revision performed under the Superintendence of Mr. Cardozo.
Revision in 34 villages completed.

Rapur taluk.

Gudur taluk.

13 villages have been closed.

Work impeded by rains, &c.

Boundary disputes of 2 villages not decided.

Kavali taluk.

Boundary disputes of 7 villages not decided.

Udayagiri and Kanigiri taluk.

* 7 in dispute.

4 in hand.

Taluk unhealthy, and difficult to survey.

Grand Trigonometrical Survey.

Conduct of subordinates.

58. Of the 98 villages contained in the Atmakur taluk, 34 have been completed in every respect, and their maps received at the Central Office. The corrected villages were originally detailed; but having been found to require revision, have not been taken credit for. On the 1st August Mr. Cardozo was sent with a small party of Detail Surveyors to undertake the Topographical Survey of this taluk and at the end of the working season had completed 34 villages. These will, I believe, give satisfaction: similar delay to that reported in the Nellore taluk, from exclusion of river bed and hills, has been experienced.

59. In the Rapur taluk, all the maps except 2 have been closed: but none have yet been detailed. The remark regarding exclusion of hills in Nellore and Atmakur is also applicable to this taluk.

60. Of the 117 villages contained in the Gudur taluk, 18 have been closed. The Deputy Surveyors have been chiefly employed in this taluk during the year. Their work has been to some extent impeded by the rains in the low swampy portions of the taluk. The Survey of 2 villages cannot yet be undertaken, as their boundaries are still in dispute.

61. 13 villages in the Kavali taluk have been completed, leaving a balance of 20 villages to be closed; 7 boundary disputes remain unadjusted.

62. No village maps in the taluks of Udayagiri and Kanigiri have yet been closed: with the exception of 11 villages* all the village boundaries have been surveyed, and the Ameens' work, except in 5 villages of the Kanigiri taluk, completed. These 2 taluks are the most unhealthy and difficult to survey in the District.

63. The survey has been connected with 2 stations of the grand Trigonometrical Survey, and the result of a comparison shows an error of 10.1 feet per mile.

64. I regret to state that the Officer in charge has reported his being dissatisfied with the conduct of the Native subordinates of this Party; while serious charges against several Surveyors have been made and taken notice of as was found necessary.

Wynad.

65. In Wynad, with the sanction of the Board of Revenue, a plan similar to that carried out on the Shervaroys was attempted; but from the numerous calls on the time of the Deputy Collector, Mr. Richardson, and from the scarcity of labor and sickness among the people, the same success has not attended the attempt. However, the examination of 44 estates was completed by Mr. Starr, the Central Office Assistant, and the signatures of the Proprietors or Agents obtained.

66. It is with regret that the death of one man employed under Mr. Starr is reported from fever in Wynad, and that almost all the others who went there suffered more or less. Early in the year, the Superintendent had met with no better success: 20 estates only being completed and the death of more than one Surveyor resulted from their accompanying him to the Wynad taluk.

67. It is believed that the Shervaroys Hill map will be found very generally useful, and particularly so, to the Collector of the District. Attention is requested to the compiled map of the Godavery District, which shows at a glance the different Topographical and Revenue features of the country. An inspection of it will also bring to view the serious blanks caused by the rigid exclusion from the Revenue Survey of all proprietary and unprofitable land. When detailing Survey operations in Salem, it was noted, that a large tract of country has been by the Revenue authorities thus excluded. This will cause unsightly gaps in the taluk and District maps, and in a professional point of view, it is much to be lamented that opportunity, such as is afforded by the presence of the Survey Establishment on the spot, should not be taken advantage of to, at any rate, complete a connected Topographical map of each District at an additional not very great expense.

68. During the past year, with the aid of Captain Hessey and the general concurrence of the other Deputy Superintendents, the Superintendent has issued a revised set of Rules and instructions for the guidance of the Department. This has of late been wanted, as sufficient time has now elapsed to enable an accurate opinion to be formed as to the best method of executing each process of Survey computation and mapping. The general use of the computing scale has simplified the process of obtaining the area of fields, and has, moreover, the advantage of greater accuracy.

69. The introduction of stamps for Topographical details and figures is also a step in the same direction.

70. By the courtesy of Colonel Walker, R. E., superintending the G. T. Survey of India, Tables of the Latitude, Longitude and Azimuth of a large number of G. T. Stations have been received through Captain Branfill, R. E., the Officer conducting the Trigonometrical operations.

Lithographic Press

71. During the year, the press has printed 965 village Maps, or 30,880 copies, comprising an area of 2473 24 square miles; also one taluk and one Pergana map.

72. The expenditure is given in the margin, and the cost of lithography is Rupees 3-6-10 per mile. The cause of out-turn being smaller, and the cost per mile greater, this year than last, is owing to the non-receipt of the printed Settlement Registers of the Trichinopoly and Udiarpollam taluks till late in the year, and to village maps received from the Deputies, during the year, having been insufficient to keep the press at full work.

Central Office.

73. The Central Office has been employed in the examination and check of village maps, and in the preparation of taluk maps.

74. The expenditure, including Military and Civil pay of the Superintendent and Contingent charges, amount to Rupees 30,992-10-6, or Rupees 9-4-6 per mile, to be added to the expenditure on the work of the different Parties.

Working of Act XXVIII of 1860.

75. The power conferred under Act XXVIII of 1860 was exercised in 448 cases, and the fines collected, amounted to Rupees 3,374 from 2,704 persons, at an average of a little more than a Rupee each.

Out-turn during the year.

Expenditure.
7,481 10 4 Village Maps.
1,002 5 10 Taluk do.

Cause of out-turn being small, and rate per mile high.

Trichinopoly, } Trichinopoly District.
Kulatali, }
Ramachendrapur, } Godavery do.
Amalapur, }
Gudiwada, } Kistna do.
Gudur Pergana, }

Expenditure and share of Central Office.

Working of Act XXVIII of 1860.

Fines inflicted.

76. Fines above 10 Rupees were inflicted in 12 cases in the Tinnevely District only. In one case in Salem, and two in Tinnevely, offenders have been imprisoned for default of payment.

Connection with the Stations, G. T. Survey.

77. During the year under report, the Revenue Survey has been connected to four G. T. Survey Stations, and the general average error does not exceed 9.4 feet per mile.

General Remarks.

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

79. The total out-turn of work during the year is 3338.04 square miles, at a cost of Rupees 126-1-2 per mile, or 0.3-2 per acre. This is a higher rate than usual. The out-turn and cost per mile in Kurnool, Kistna, and Nellore† may be considered fair. In Salem, the Party being employed in going over the same ground again, from no fault of its own, accounts for a small show of work in comparison with expenditure. In Tinnevely, the quantity of work executed, and amount expended, can hardly be deemed satisfactory. It is true the sudden defection of a number of Ameens, the misconduct of the Office Manager and others, must have caused much delay and inconvenience, and the demarcation in Tinnevely, when stated to be good in some official documents, was most emphatically pronounced the reverse by Major Barber; still it may be reasonably expected that another year will show great improvements in out-turn and cost.

80. Of the two completed Districts, one has cost Rupees 68-11-2 per square mile, and the other Rupees 95-0-9, or Rupee 0-1-8 and Rupee 0-2-5 respectively per acre; considering the minuteness of the Survey, it is believed that this may be considered satisfactory.

81. In the margin is given a similar statement for the completed taluks of Districts still under Survey.

82. I have pleasure in bearing testimony to the support afforded me by the Officers in charge of District Surveys, and to the zeal evinced by all others, with one exception. The name of one Assistant, I regret to report, was brought to my notice as having been extremely negligent in performing certain duties assigned him, and I was under the necessity of administering a reprimand to him, and of informing him that his neglect would be made known to Government.

REVENUE SURVEY OFFICE, CHEPAUK,
10th March 1865.

(Signed) W. H. HESSEY, Captain,
for Lieut. Col. F. PRIESTLEY,
Superintendent, Revenue Survey.

District.	No. of villages.	Area in sq. miles.
Trichinopoly ...	51	44.19
Salem*.....	83	104.33
Kurnool.....	66	477.33
Godavery.....	2	1.89
Kistna.....	139	585.54
Coimbatore.....	97	121.38
Nellore.....	324	1462.06
Total...	767	2810.29

* Ready to be handed over but retained at the request of the Deputy Director of Revenue Settlement ... 408 592.65

† In these 3 Districts, out-turn 2630 square miles.

Expenditure, Rupees 2,53,264, or Rupees 96 per square mile: all expenses included.

Trichinopoly,
Godavery

	Sqr. miles.	Cost per mile.
Kistna, 4 taluks.	1783.34	91 13 4
Salem, 5 taluks.	2105.21	100 12 5
Nellore, 1 taluk.	636.14	127 12 2

RETURN of area surveyed and cost incurred during the year 1864.

Names of Parties.	Extent measured in square miles.	Actual expenditure during the year.	Estimated measurement Allowance.	Expenditure including estimated measurement Allowance.	Cost per		Share of Central Office, exclusive of Superintendent's Regimental Allowance.	Expenditure of each party, inclusive of the share of Central Office.
					Square mile.	Acre.		
					RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
No. 1 Salem and Coimbatore	387.94	70,997 14 0	2,500 0 0	73,497 14 0	189 7 3	0 4 9	4,287 10 0	77,785 8 0
" 2 Kurnool	775.20	66,355 0 0	4,500 0 0	70,855 0 0	91 6 9	0 2 3	4,287 10 0	75,142 10 0
" 3 Kistna	835.72	64,458 14 1	3,000 0 0	67,458 14 1	80 11 6	0 2 0	4,287 10 0	71,746 8 1
" 4 Tinnevely	321.22	41,871 7 9	1,200 0 0	43,071 7 9	134 1 4	0 3 4	4,287 10 0	47,359 1 1
" 5 Nellore	1018.16	67,271 1 11	4,000 0 0	71,271 1 11	69 15 11	0 1 9	4,287 10 0	75,558 11 1
Total...	3338.04	3,10,954 5 9	15,200 0 0	3,26,154 5 9	97 12 6	0 2 5	21,438 2 0	3,47,592 7 9
Godavery	...	2,851 4 6	...	2,851 4 6	...	...	...	2,851 4 6
Coimbatore	...	13,255 12 2	...	13,255 12 2	...	...	...	13,255 12 2
Sherravoy Hills	...	2,503 0 1	...	2,503 0 1	...	...	...	2,503 0 1
Wynad...	...	1,833 9 9	...	1,833 9 9	...	...	654 15 6	2,488 9 3
Grand Total...	3338.04	3,31,398 0 3	15,200 0 0	3,46,598 0 3	103 13 3	0 2 7	22,093 1 6	3,68,691 1 9

Return of area surveyed and cost incurred during the year 1864.—(Concluded.)

Names of Parties.	COST PER		CHARGEABLE TO GENERAL FUND.					COST PER	
	Square mile.	Acre.	Regimental Allowance of the Superintendent and Officers.	Measurers and Coolies.	Instruments issued.	Total chargeable to General Fund.	Total expenditure including all charges.	Square mile.	Acre.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
No. 1 Salem and Coimbatore ...	200 8 1	0 5 0	10,760 11 1	...	382 10 9	11,143 5 10	88,928 13 10	229 3 8	0 5 8
" 2 Kurnool ...	96 15 3	0 2 5	1,910 14 6	9,886 15 6	66 9 0	11,864 7 0	87,007 1 0	112 4 3	0 2 9
" 3 Kistna... ..	85 13 7	0 2 1	9,722 6 6	5,923 3 6	7 0 0	15,652 10 0	87,399 2 1	104 2 3	0 2 1
" 4 Tinnevely... ..	17 3 11	0 3 8	8,026 14 6	...	591 0 0	8,617 14 6	55,977 0 2	174 4 2	0 4 4
" 5 Nellore ...	74 3 4	0 1 10	3,146 4 6	...	153 9 0	3,299 13 6	78,858 9 5	77 7 2	0 1 11
Total...	104 2 1	0 2 7	33,567 3 1	15,810 3 0	1,200 12 9	50,578 2 10	3,98,170 10 7	119 4 6	0 3 0
Godavery ...	...	...	...	...	...	...	2,851 4 6	...	...
Coimbatore ...	...	...	1,566 3 5	...	...	1,566 3 5	14,821 15 7	...	...
Shervaroy Hills ...	...	...	...	...	...	...	2,503 0 1	...	...
Wynad... ..	...	...	...	...	...	...	2,488 9 3	...	...
Grand Total...	110 7 2	0 2 9	35,133 6 6	15,810 3 0	1,200 12 9	52,144 6 3	4,20,835 8 0	126 1 2	0 3 2

REVENUE SURVEY OFFICE,
Chepauk,
10th March 1865.

(Signed) W. H. HESSEY, Captain,
for Lieutenant-Colonel Priestley,
Superintendent, Revenue Survey.

STATEMENT of expenditure of the Revenue Survey

	Extent in square miles.
Village maps	2473.24
Taluk do.	352.19
Total...	2855.43

phic Department for the year 1864.

Cost per square mile.	Cost including Contingencies and Printing paper.	Cost per square mile.
RS. A. P.	RS. A. P.	RS. A. P.
3 3 2	9,097 5 3	3 10 8
...	1,002 5 10	...
...	10,099 11 1	...

(Signed) W. H. H.

STATEMENT of comparative distances between Trigonometrical stations.

Parties.	Stations.	DISTANCES.		Difference.	Error per mile.	Average error.
		Trigonometrical Survey.	By Revenue Survey.			
No. 3 Kistna...	Beeranelly to Yellamandah ..	500 60	110382.46	118.14	5.6	...
	Do. Gooty Kondah ..	7092.00	56946.09	145.91	13.5	8.3
" 5 Nellore...	Gooraloor H. S. to Allicondah	75090.4	174880 6	209.8	6.3	...
	Betrangoonta H. P. to Seedanag	71904.9	71640.7	264.2	19.4	10.1
	H. S.					
	Average error on the whole...					9.4

REVENUE SURVEY OFFICE,
Chepauk,
10th March 1865.

W. H. HESSEY, Captain,
for Lieutenant-Colonel Priestley,
Superintendent, Revenue Survey.

43. The total expenditure on the District is given at Rupees 3,08,750-11-4, and the area surveyed was 3391.95 square miles, so that the average cost per square mile is Rupees 91-0-4. No further expenditure on account of the Survey appears to be necessary for this District, and any little work that may be still required, Colonel Priestley states can be performed in the Guntoor Office.

44. *Party No. 3*.—Commenced operations in the Vinukonda Taluk in the early part of the year.

From May to December the Tumeracoda division of the Palnad was surveyed. Altogether 835.72 square miles were surveyed during the year at a cost of Rupees 81,193-9-7, the average per square mile being Rupees 97-2-6.

45. The maps destroyed by the cyclone have been in great part re-placed. The damaged records in the Compiler's Department are being re-prepared, and the records of the field work appear to have sustained no important injury.

46. Two-hundred and seventy-seven Kurnums in the Krosur and Guntoor Taluks, and the Tumeracoda division of the Palnad, have been instructed in the Khasrah system of measuring fields and their included holdings, and calculating their areas.

47. *Party No. 4*.—The operations were confined to the Taluks of Ambasamudram, Tinnevely, Tenkasi, and Nangavary. The area measured was 321.22 miles, at a cost of Rupees 49,339-1-11, the average being Rupees 153-9-6 per square mile. The number of small circuits, their defective demarcation, and the utter disappearance of the marks in some instances in the Tenkasi Taluk, are stated to have caused the small out-turn of work, and the corresponding increase in the cost.

48. *Party No. 5*.—Square miles 1018.16 were surveyed at a cost of Rupees 63,506-7-11, being Rupees 67-3-8 per square mile. The Survey areas, &c., for the whole of the Nellore Taluk have been furnished to the Settlement Department. The examination of the topographical details in the map of Nellore itself proved unsatisfactory, and steps have been taken to rectify the discrepancies detected. The maps of the other villages should also be examined in order to their correction where inaccurate.

49. *Special Party, Wynad*.—The examination of forty-four estates was completed by Mr. Starr, the Central Office Assistant, and the signature of the proprietors or agents obtained. Owing to scarcity of labor and much sickness, the work could not be prosecuted so vigorously and satisfactorily as the Settlement of the disputes on the Sheeraroy Hills, which was carried out on a similar plan.

50. The long experience gained in the Department has enabled the Superintendent to issue a revised set of rules and instructions for executing each process of Survey computation and mapping. It appears that the general use of the computing scale has simplified the process of obtaining the area of fields, and has also the advantage of great accuracy.

51. Stamps for topographical details and figures have been introduced with the view to facilitate the preparation of the maps.

52. The Lithographic Press has printed 30,880 copies of Village maps, one Taluk, and one District map, at a cost of Rupees 8,451-0-2, the average being reported to be Rupees 3-6-10 per mile, or Rupees 0-12-7 in excess of the previous year.

53. The Revenue Survey was connected to four Great Trigonometrical Survey stations, and the general average error does not exceed 1.4 feet per mile.

54. The total area measured during the year was square miles 3338.04, and the total expenditure incurred, including all charges, was Rupees 4,20,835-8-0, being at the rate of Rupees 126-1-2 per square mile, or three annas and two pies per acre on the whole area surveyed. The share of the Central Office in the above total cost was Rupees 22,093-1-6.

56. The cost in the two completed Districts of Trichinopoly and Godavery was Rupees 68-11-2 per square mile in the former, and Rupees 95-0-9 in the latter, or annas 1-8 and annas 2-5 per acre respectively, which is not considered very unsatisfactory.

	Square miles.	Cost per mile.
Kistna, four Taluks.....	1783.34.....	91 13 4
Salem, five Taluks... ..	2105.21.....	100 12 5
Nellore, one Taluk... ..	636.14.....	127 12 2

[illegible]

Copy to R. E. Master, Esq., Officiating Director of Revenue Settlement.
to Major W. H. Hessey, Officiating Superintendent, Revenue Survey.

14. The 10 days of the 1st Dec
18. The 10 days of the 2nd Dec
19. The 10 days of the 3rd Dec

Exd. J. Wright.

Submitting review of the operations of the
Settlement and Survey Departments and their
results for 1864.

No. 6,005.

Ms A 24-54. 10 Cellophane

PROCEEDINGS OF THE BOARD OF REVENUE

No. 2764

1865

Department.