M.R.O. 1—83,000—16-10-29.

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT

G.O. No. 97 Press
Mis.

202-203.

Dated 14th January 1869.

Not to be folded or roughly handled

Proceedings of the Madras Government, Revenue Department,
14th January 1869.

No. 202. Read the following Proceedings of the Board of Revenue, dated 30th June 1868, No. 4,824 :—

Read the following letter from the Director of Revenue Settlement, to the Acting Secretary to the Board of Revenue, dated 1st May 1868, No. 489-16.

Abstract.—Submitting the usual report of the operations of the Settlement Department during the year 1867 ; and forwarding a report from the Superintendent of Revenue Survey on the work of his Department from the same period.

Submitted to Government for information.

No. 203. Order thereon, 14th January 1869, No. 97.

Land Revenue.

1. The Board of Revenue submit, without comment, the report of the Revenue Settlement and Survey operations for the year 1867.

2. The settlement appears to have worked favorably in those divisions where it has been completed, viz., in Chidambaram Talook, South Arcot, Kurnool Proper, and the Masulipatam Division of Kistna District.

3. No report appears to have been received from the Collector of Tinnevelly on the operations carried on under his superintendence; but it is presumed that monthly Progress Reports are received by the Board.

4. It is to be regretted that so much time and labor has been necessarily expended in the re-classification of the Nellore District.

5. In the report on the Revenue Survey operations nothing calls for special remark, except the removal of the demarcation stones in Coimbatore Talook, alluded to in paragraph 8. The Board should direct the special attention of the Collector to this point.

6. The Government would suggest, for consideration of the Board, whether it would not simplify matters if only one Administration Report were submitted by these two departments. At present one report, giving full details for the Calendar year, is furnished to the Board, and subsequently a shorter report for the Official year, giving a brief resumé of operations, is submitted direct to Government. It would entail less labor if only one report for the Official year were submitted through the Board with their remarks.

(True Extract.)

(Signed) R. A. DALYELL,

Acting Secretary to Government.

To the Board of Revenue.
,, the Director of Revenue Settlement.
,, the Superintendent of Revenue Survey.

Exd. G. A. Turton.

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Govt. of 1869 Madras.

REVENUE.

To

THE BOARD OF REVENUE,

&c., &c., &c.

Dated January, 14th.

Recd.

G. O., 14th January 1869, No. 97.

JANUARY.

Nos. 202-203.

Operations of the Survey and Settlement Departments.—Board's Proceedings submitting the report for 1867, reviewed.

REVENUE SETTLEMENT OFFICE,
MADRAS, *1st May* 1868.

No. $\frac{489}{16}$

From

R. E. MASTER, Esquire,
Director of Revenue Settlement.

To

A. MACGREGOR, Esquire,
Acting Secretary to the Board of Revenue.

SIR,

OPENING REMARKS.—1. I have the honor to submit the usual Report of the operations of the Settlement Department during the year 1867, and to forward a Report from the Superintendent of Revenue Survey on the work of his Department for the same period. I have to express my regret that absence on duty in the Northern Districts until the end of March has prevented the submission of the Report at an earlier date.

2. In accordance with the usual practice, I will, in the first place, allude to the present condition, as regards cultivation and assessment, of those Districts and parts of Districts, which have been already brought under the new Settlement, but as respects the Godavery and Trichinopoly Districts, the particulars will be separately furnished hereafter, the necessary returns not having yet come to hand.

RESULT OF THE NEW SETTLEMENT IN THE CHIDAMBARAM TALOOK OF SOUTH ARCOT.—3. The number of villages under the new Settlement, including those transferred from the Trichinopoly District, is the same as in last year, viz., 396. In Fusly 1276, the aggregate area under cultivation was 1,29,515 acres, the assessment on which, including Kusser and Fussal jasti, amounted to Rupees 5,19,397. In Fusly 1277, the aggregate area under cultivation was 1,29,818 acres, an increase of 303 acres over the previous year's cultivation, but the assessment, including the same items, amounted to only Rupees 5,03,359, shewing a decrease of Rupees 16,038. Of this sum, however, only Rupees 1,870 belong to the land assessment, and the remainder to Kusser and Fussal jasti, the decrease in those items being Rupees 10,427 and Rupees 3,741 respectively.

RESULT OF THE NEW SETTLEMENT IN KURNOOL PROPER.—4. Up to the present time, 336 out of the 370 villages which compose the four talooks of Kurnool proper, have been settled. The Report on these talooks having, as an exceptional case, been accepted before the completion of the Survey, the Settlement was introduced gradually as the correct areas were supplied; 143 villages were settled in Fusly 1274; 111 villages in Fusly 1275; and 82 villages in Fusly 1276, that is to say, the Settlement was explained to the ryots, and the tickets were issued in those Fuslies, the new assessment actually taking effect from the commencement of Fuslies 1275, 1276 and 1277, respectively. The annexed statement exhibits separately, the results for the villages settled in each year, and it will be observed that whereas the occupied area and the assessment according to the Jamabundy accounts for Fusly 1274, in the 143 villages first settled, were 2,37,510 acres, and Rupees 2,61,227 respectively, the application of the Settlement rates and Survey areas to the above, resulted in an area of 2,68,404 acres, and an assessment of Rupees 2,79,683. The actual Settlement demand for Fusly 1275, after allowing for relinquishments and new cultivation, was Rupees 2,64,757 on 2,45,397 acres. For Fusly 1276, the figures were Rupees 2,67,855 and 2,49,888 acres, and for Fusly 1277 Rupees 2,66,669 and 2,49,517 acres.

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5. The occupied area and assessment, according to the Jamabundy accounts of Fusly 1275, in the 111 villages settled in that Fusly were 1,64,613 acres and Rupees 2,34,138, respectively. According to Survey measurement and Settlement rates, the area was 1,80,887 acres, and the assessment Rupees 2,31,586. The actual Settlement demand for Fusly 1276, after deducting relinquishments, &c., was Rupees 2,26,312 on 1,74,707 acres, while for Fusly 1277, the area is 1,75,982, and the assessment Rupees 2,26,867.

6. The occupied area and assessment according to the Jamabundy accounts for Fusly 1276 in the 82 villages settled in that Fusly were 1,18,188 acres, and Rupees 1,51,078, respectively. According to Survey measurement and Settlement rates, the area was 1,28,041 acres, and the assessment, Rupees 1,43,902. After deducting relinquishments, &c., the actual Settlement demand for Fusly 1277 is Rupees 1,41,247 on 1,22,912 acres.

7. Taking the 336 settled villages together, the occupied area in Fusly 1277 is 5,48,411 acres, bearing an assessment of Rupees 6,34,783, compared with an area (according to the Revenue accounts) of 5,20,311 acres, and an assessment of Rupees 6,46,433 in the year prior to the introduction of the new Settlement.

Fuslies in which the Settlement was introduced.	No. of villages settled.	As per Jamabundy accounts of Fusly 1274.		As per Jamabundy accounts of Fusly 1275.		As per Jamabundy accounts of Fusly 1276.		As per new Settlement at the time of introduction.		Settlement demand for Fusly 1275.		Settlement demand for Fusly 1276.		Settlement demand for Fusly 1277.		Per-centage, Cols. 5 and 10, 6 and 10 and 8 and 10.	Per-centage, Cols. 4 and 12.	Per-centage, Cols. 6 and 14.	Per-centage, Cols. 8 and 16.
		Extent.	Assessment.	Extent.	Assessment.	Extent.	Assessment.	Extent.	Assessment.	Extent.	Assessment.	Extent.	Assessment.	Extent.	Assessment.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
1274	143	2,37,510	2,61,227	...	...	...	...	2,68,404	2,79,683	2,45,397	2,64,757	2,49,888	2,67,855	2,49,517	2,66,669	+ 7	+ 1	...	...
1275	111	...	...	1,64,613	2,34,138	...	...	1,80,887	2,31,586	...	...	1,74,707	2,26,312	1,75,982	2,26,867	— 1	...	— 3	...
1276	82	...	...	...	...	1,18,188	1,51,078	1,28,041	1,43,902	...	...	...	...	1,22,912	1,41,247	— 4	...	...	— 6
Total...	336	...	...	...	...	...	...	5,77,332	6,55,171	...	...	...	...	5,48,411	6,34,783	...	...	...	...

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RESULT OF THE NEW SETTLEMENT IN THE MASULIPATAM DIVISION OF THE KISTNA DISTRICT. —8. The following statement furnished by the Acting Sub-Collector on special duty, shows, for the Masulipatam division, the Settlement demand for Fusly 1276, the first year of the new Settlement, the relinquishments up to the 31st May 1867, the extent to which durkhasts for fresh land were received from the ryots, and the total demand for Fusly 1277. It will be seen that the occupied area in Fusly 1276 was 3,64,109 acres, the assessment on which, including water rate on the delta irrigated lands, was Rupees 6,85,321. Up to 31st May 1867, 10,172 acres assessed, including water rate, at Rupees 34,724, were relinquished, but on the other hand, 15,210 acres bearing an assessment, with water rate, of Rupees 52,466, were newly taken up, leaving the total demand for Fusly 1277 at Rupees 7,03,063, on an occupied area of 3,69,147 acres.

Items.	Dry.		Upland wet.		Water rate on wet lands of the Delta.	Total.	
	Extent.	Assessment.	Extent.	Assessment.		Extent.	Assessment.
1	2	3	4	5	6	7	8
	Acres.	Rs.	Acres.	Rs.	Rs.	Acres.	Rs.
Amarakum of Fusly 1276...	3,54,060	4,44,133	10,049	42,735	1,98,453	3,64,109	6,85,321
Relinquishment for Fusly 1277....................	9,949	12,765	223	937	21,622	10,172	34,724
Remaining..................	3,44,111	4,31,368	9,826	41,798	1,77,431	3,53,937	6,50,597
Add lands newly taken up.	15,071	20,772	139	591	31,103	15,210	52,466
Total demand for Fusly 1277	3,59,182	4,52,140	9,965	42,389	2,08,534	3,69,147	7,03,063

PROPOSALS FOR THE SETTLEMENT OF OTHER DISTRICTS.—9. The proposals for the Settlement of the Salem District contained in my letters of the 8th March and 29th August 1866, Nos. 286 and 1211, were submitted with the Board's Proceedings of the 4th October last, No. 6,334, to Government and are now under their consideration.

10. A proposal for the Settlement of the Guntoor Division of the Kistna District is under preparation and will shortly be submitted to the Board. The report of the Acting Sub-Collector on special duty was received some time back, but has only just been returned by the printers, in whose hands it was considered advisable to place it on receipt, in order to facilitate the consideration of the numerous and voluminous accounts and Statements which accompanied it.

SCENE OF OPERATIONS DURING THE YEAR 1867.—11. During the year under report regular field operations were limited to the Districts of Kurnool, Cuddapah and Nellore, though a certain amount of fresh Demarcation and Classification, rendered necessary by the extension of cultivation since the execution of the original field work, was also performed in the Godavery and Kistna Districts. In Kurnool and Cuddapah, the work consisted of Demarcation and Classification executed on the combined system; in Nellore of Classification only.

12. The Statements in Appendix A exhibit in detail the work performed and the expenditure incurred in each District during the year, [illegible] abstract giving the results at one view and comparing them with those for 1866. There is a considerable decrease

in the area demarcated, as well as in that classified. This is partly owing to the peculiar circumstances of the talooks of Cuddapah in which the work was chiefly performed and partly to a recess having been taken by the party under Mr. Cox, none having been allowed in the previous year. The particulars will be explained more in detail in the sequel. The expenditure of the year, excluding Rupees 46,673 not debitable to the parties, as will be hereafter explained, is less than that of the previous year by close upon half a lakh, the figures being Rupees 1,89,923 against Rupees 2,39,367. The decrease occurs chiefly in Trichinopoly, Salem and Coimbatore.

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Names of Districts.	DEMARCATION.										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.								
	1866.	1867.	1866.	1867.	1866.			1867.			1866.	1867.	1866	1867.	1866.			1867.			1866.	1867.	
1	2	3	4	5	6			7			8	9	10	11	12			13			14	15	16
	Sq. M.	Sq. M.	Rs.	Rs.	Rs.	A.	P.	Rs.	A.	P.	Sq. M.	Sq. M.	Rs.	Rs.	Rs.	A.	P.	Rs.	A.	P.	Rs.	Rs.	Rs.
Godavery	6	23	529	2,709	...	...	...	...	...	...	5	25	21,340	28,666	...	...	...	...	...	...	21,869	31,375	+ 9,506
Kistna	53	41	4,642	4,727	...	...	...	...	...	...	174	38	27,238	20,688	...	...	...	...	...	...	31,880	25,415	— 6,465
Kurnool	1,179	32	63,300	13,274	49	3	4	...	...	...	1,270	56	53,657	15,607	35	10	10	...	...	...	1,16,957	28,881	—88,076
Cuddapah	3	424	5,898	48,573	...	...	...	98	8	10	1	400	422	34,068	33	...	...	65	14	...	6,320	82,641	+76,321
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...	21,934	59	...	...	...	...	...	...	21,934	59	—21,875
South Arcot, (Chidambaram talook) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	5	+ 5
Salem	...	...	...	...	...	...	...	...	...	...	...	...	19,433	11,036	...	...	...	...	...	...	19,433	11,036	— 8,397
Tinnevelly	...	...	2,952	4,446	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,952	4,446	+ 1,494
Coimbatore	...	...	17,093	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17,093	...	—17,093
Nellore	...	...	929	...	...	...	...	...	...	...	...	354	...	6,065	...	...	...	17	2	1	929	6,065	+ 5,136
Total...	1,241	520	95,343	73,729	...	...	...	...	...	...	1,450	873	1,44,024	1,16,194	...	...	...	...	...	...	2,39,367	1,89,923	—49,444
Charges not debitable to parties, including Settlement Establishments under Collectors of Nellore and Tinnevelly.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47,841	46,673	— 1,165
Grand Total...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,87,208	2,36,596	—50,612

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13. I will now remark on the work performed and expenditure incurred in the several Districts, giving such explanation as the figures require.

GODAVERY.—14. The eastern and central deltas and upland talooks having been brought under the new Settlement in the previous year, as already reported, the Office establishment under the Uncovenanted Native Assistant was chiefly employed in the year under report in preparing the final Settlement Registers in diglott for the press. Registers for 511 villages were completed and despatched to the Central Office, and at the close of the year those for 60 villages were in progress. The Contractors, Messrs. Graves, Cookson and Co. turned out, during the year, 574 Village Registers, of which the usual number of copies were printed. They also printed Alphabetical lists of the villages in three talooks, to be bound up with the 1st volume of the Registers of each talook. In addition to the Office work, 23 square miles were demarcated and 24 square miles classified by the party during the year. The area operated upon consisted partly of tracts of land hitherto undemarcated in detail, and consequently unclassified, but now taken up for cultivation, and assessed according to the Settlement rates, on the requisition of the local Revenue Officers and partly of certain islands in the Godavery, which though in the original scheme, excluded from the Settlement it has since been considered desirable to bring under it, owing to their high level and permanent character. Besides the above work, in the absence of a Survey Establishment, the Party measured 4,726 acres of land newly taken up. The expenditure in this Party, exclusive of the proportion of Central Office charges, exhibits a net increase of Rupees 5,911 resulting from a gross increase of Rupees 9,275 and a gross decrease of Rupees 3,364. The increase occurs almost exclusively in the item of printing, there being a decrease in nearly all the other items.

KISTNA.—15. The Settlement operations in this District were under Mr. W. Wilson who superintended them without prejudice to his other duties, which were, during a part of the year, those of Acting Sub-Collector, and during the other part those of Acting Collector. The operations consisted of the preparation of diglott Settlement Registers for the villages in the Masulipatam division already settled; the completion of the Settlement Report and accounts for the Guntoor division; the demarcation and classification of fresh lands, and the measurement of lands demarcated subsequently to the completion of the survey. 206 diglott Village Registers were completed during the year, and of these 159 had been despatched to the Central Office before its close. Registers for 216 more villages were in progress but could not be completed pending replies to references to the Tahsildars and Survey Offices. The want of sub-division measurements which had to be made by the Village Curnums under the supervision of the Settlement Officers, also retarded this branch of the work, especially as errors on the part of the Curnums were frequent and the work had in many cases to be all done over again.

16. Field work to the extent of 41 square miles of new demarcation and 38 square miles of new classification was accomplished in the Guntoor division, and 27 square miles were measured by a small establishment entertained for the purpose. In Office the establishment was also engaged in tabulating information for the Guntoor report and in calculating the financial results of the proposals. The report was finished and despatched to the Central Office towards the close of the year. The expenditure of this Party shows a net decrease of Rupees 6,509, resulting from a gross increase of Rupees 1,021, and a gross decrease of Rupees 7,530. The increase occurs in Hoozoor and Demarcation establishments and contingent charges. The decrease in the salaries of Gazetted Officers, classification establishments, Office rent and mounting Maps.

KURNOOL AND CUDDAPAH.—17. These two Districts will be noticed together, the operations in them having been conducted by the same Party. In 1866, the field work accomplished was almost exclusively in Kurnool. In 1867 on the contrary, it was chiefly confined to Cuddapah. At the beginning of the year the field parties were still at work in the

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Markapur and Cumbum talooks of Kurnool, and a few hands had commenced operations in the Budwail talook of Cuddapah. The party in the last named talook was strengthened as the Markapur and Cumbum villages were finished, and towards the end of May, Budwail itself approached completion. As the villages in it were finished, the field Gumastahs were allowed to come into Head Quarters at Cuddapah, and the Party enjoyed a recess for the first time since the year 1863. While in Cuddapah, the men were employed in working up the accounts of the Kurnool District, the whole of which has now been completed as far as field work is concerned, and of the 5 talooks of Cuddapah already demarcated and classified. Towards the end of September, the Party took the field again and the Pullampet talook of Cuddapah was commenced and engaged its attention till the close of the year.

18. The outturn of the year, as regards field work, is undoubtedly small, when viewed by the area alone, but the fact that 88,052 fields were marked out, and that 3,81,597 field stones were erected, shews that the Party has not been idle. The reasons why so many stones have been necessary are, the large extent of wet cultivation operated upon and consequent small sizes of the fields and their irregular shape. This was particularly the case in Pullampet, and so tenacious were the ryots of every inch of ground, that they objected to the zigzag sides of their irregular small fields being in any way straightened, so as to reduce the number of field stones. Mr. Cox states that in no place has he ever seen such complicated demarcation as in Pullampet. The above was not the only impediment to the work. Sickness (chiefly fever) was very prevalent throughout the working season and as the ryots generally, as well as the Settlement servants, suffered, it is not surprising that the progress of the work was affected. In Budwail the extent to which jungle had to be cleared in the course of the demarcation combined with the paucity of the ryots and the prolonged absence at the Jamabundy of the Curnums and Reddies, just at the time that their presence was most necessary, proved a great hindrance. The Officiating Deputy Director also found it necessary to withdraw some of the most experienced classifiers for the purpose of re-examining certain doubtful work in the Kurnool District and in the Northern talooks of Cuddapah, and though the ordinary course in such cases is to replace the men so withdrawn by acting classifiers, it was found, impracticable to adopt it in Cuddapah, no qualified men being procurable. This is a disadvantage under which the Department will, I fear, continue to labour in Kurnool and Cuddapah. The men are not to be had in those Districts, and though there are plenty of qualified persons in the Kistna and Godavery, so great is the dislike of the latter to the climate of the Ceded Districts that they cannot be tempted to go there. From this cause the Officiating Deputy Director is often unable to keep his ordinary establishments at their full sanctioned strength. It may also be remarked that some time was unavoidably lost in travelling from talook to talook and that the recess, being the first taken for four years, was allowed to last somewhat longer than usual.

19. The number of masonry pillars built by this Party during the year was 10,969, of which, 5,414 were on village boundaries and the rest on those of khandams.

20. Attention was paid to kyling during the harvest, and 336 experiments in jonna and paddy were made in the Koilkoontla talook of Kurnool and the Podatur and Jamalmadugu talooks of Cuddapah. Other experiments were made in the Markapur, Cumbum and Budwail talooks, both by the superior officers and the subordinates.

21. The new Settlement was introduced in 82 more villages of Kurnool proper, for which Survey areas had been received, viz., 48 villages in Sirwell, 21 in Nandial and 13 in Ramalkota. It took effect from the commencement of the current Fusly 1277. 34 villages now remain to be settled, to complete the four talooks of Kurnool proper, and it is hoped that for most of these Survey areas will be received in sufficient time to allow of their being settled before the commencement of Fusly 1278.

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22. Survey areas were received during the year for 85 villages, representing an area of 568 square miles.

23. During the same time the demarcation sketches and records of the two talooks of Markapur in Kurnool and of Sidhout in Cuddapah, aggregating, according to the Curnum's accounts, 665 square miles, were furnished to the Survey Department.

24. The expenditure in this Party was much lower than in the previous year, partly in consequence of Mr. Melville's departure to England and the lower allowances drawn by his successor; partly owing to the number of Assistant Directors having been reduced from three to two, and partly to the occurrence of vacancies and smaller contingent disbursements.

TRICHINOPOLY.—25. The small item of expenditure set opposite this District is a charge for binding Settlement Registers, the Departmental establishments having been broken up or removed from the District in the previous year.

SOUTH ARCOT.—26. The item of Rupees 5 opposite this District is also a charge for mounting a few Maps and binding a few Registers.

SALEM.—27. Pending the receipt of orders on the proposals for the Settlement of this District alluded to in para. 9, the establishment has been kept at as low a strength as possible, and employed to the best advantage. A Supervisor only has been retained in charge of the Party, the services of the Native Uncovenanted Assistant Vencatacharri having been placed at the disposal of the Collector of Tinnevelly. Further, a party of field hands was despatched from Salem to Tinnevelly to strengthen the establishment employed there in the revision of demarcation. The expenditure in Salem is less than that of the previous year by Rupees 8,397.

TINNEVELLY.—28. The expenditure set opposite this District consists of the pay of the establishment employed under the orders of the Collector and of the Survey Department in correcting and revising demarcation. It is larger than in last year owing to the services of some of the Salem hands having been utilized as described in the last para.

COIMBATORE.—29. This District finds a place in the Statement only because the latter compares the work and expenditure of 1866 with those of 1867. In the last named year, no establishment was employed and no expenditure incurred in Coimbatore.

NELLORE.—30. For the first ten months of 1867, the Settlement operations in this District were carried on under the superintendence of the Collector. The order of Government, transferring the Settlement of the District to the Special Department, was passed on the 31st October. Between that date and the end of the year, I visited Nellore and arranged with the Acting Collector and with the Special Assistant, Mr. Rundall, since appointed an Officiating Deputy Director, for the future conduct of the work. These arrangements were reported to Government in my letter of the 3rd January, No. 2, and approved in their order of the 27th idem, No. 220. With the sanction of the Board, and in anticipation of the orders of Government, Mr. Boswell had some time previously introduced the system of classification adopted by the Settlement Department and by the end of November, 505 square miles in the three talooks of Atmakur, Gudur and Rapur had been classified according to that system. The actual work of the two months of November and December amounted to 334 square miles. The work being in fact re-classification, the men were able to get through it rapidly. The expenditure represents the cost of the establishment for November and December and is of course much in excess of the expenditure of 1866, when a small Demarcation Establishment only was employed and that but for a short period.

31. The following statement shews the expenditure of the year compared with that of 1866 and with the sanctioned amount. The latter calculated for the calendar year, necessarily comprises parts of two Budget allotments, viz. for 1866-67 and 1867-68, but owing to the alteration

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in the official year, the proportions taken are one-fourth of the former and three-fourths of the latter. The total sanctioned amount thus obtained, is Rupees 3,46,125, and the total expenditure Rupees 2,36,596, being Rupees 1,09,529 less than the sanctioned amount, and Rupees 50,612 less than the expenditure of the year 1866. The causes of the short expenditure compared with the Budget provision, have been, the reduction of some establishments; the non-maintenance at full strength of others; and the slow progress in printing the Settlement Registers made by the Contractors, in consequence of which, only a portion of the money provided to pay for printing was spent. The provision made in anticipation of orders on the Settlement of Salem, was not required. Out of the surplus funds of the Department, a sum of Rupees 10,000 was transferred to the Superintendent of Revenue Survey in accordance with the order of Government dated 5th November last, No. 2616. The provision made for the Settlement establishments under the Collectors of Nellore and Tinnevelly was not all expended, there being a surplus of Rupees 24,348. The item of Rupees 460 entered at the foot of the statement as charges not debitable to parties, consists of the pay of certain Demarcators placed at the disposal of the Superintendent of Revenue Survey during a portion of the year, for employment in the Madras District. This establishment has since been transferred altogether to the Survey Department.

DISTRICTS.	Sanctioned amount for the year 1867	Actual expenditure in 1866.	Actual expenditure in 1867.	Difference between Columns 2 and 4.	Difference between Columns 3 and 4.
1	2	3	4	5	6
	Rupees.	Rupees.	Rupees.	Rupees.	Rupees.
Godavery	53,741	17,447	23,358	—11,462	—15,061
Kistna		25,430	18,921		
Coimbatore		14,463	...		
Nellore	6,354	741	4,515	—1,839	+ 3,774
Salem	59,166	15,501	8,216	—46,450	—23,240
Trichinopoly		17,497	44		
Tinnevelly		2,952	4,440		
South Arcot (Chidambaram talook) ..		...	4		
Kurnool	1,05,843	94,061	22,566	—21,445	—15,087
Cuddapah		5,374	61,832		
Central Office...	50,000	45,901	46,021	—3,979	+ 120
Total...	2,75,104	2,39,367	1,89,923	—85,181	—49,444
Tinnevelly and Nellore District Settlement Establishments ...	71,021	38,669	46,213	—24,808	+ 7,544
Charges not debitable to parties..	...	9,172	460	+ 460	— 8,712
Total.....	71,021	47,841	46,673	—24,348	— 1,168
Grand Total ...	3,46,125	2,87,208	2,36,596	—1,09,529	—50,612

ERECTION OF BOUNDARY PILLARS.—32. Statement B. in the Appendix shews in detail the number of Boundary pillars constructed during the year. The following is an abstract of it.

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Items.	Total
Village Boundaries.	
Villages	169
Khandams or Sub-divisions	1,733
Tri-junction pillars	231
Secondary pillars	5,185
Other marks on village boundaries	6,613
Marks on Khandams	24,536
Field Boundaries.	
Number of villages	268
Villages divided into Khandams — No. of villages	119
Villages divided into Khandams — No. of Khandams	1,442
No. of fields marked	92,118

33. The annexed statement shews the number of villages and the demarcated area made over to the Survey Department during the year.

Districts.	No. of villages.	Extent in square miles.
Kurnool	83	529
Cuddapah	76	136

34. The following statement shews the villages for which Survey areas were received during the year.

Districts.	No. of villages.	Extent in square miles.
Kurnool	85	568
Kistna	30	315

General Remarks.—35. The only alteration during the past year in the Staff of European Officers attached to the Department was the retransfer to it, under Government Order dated 31st October No. 2,564, of Mr. C. Rundall, who in his new grade of Officiating Deputy Director, is superintending the Settlement Operations in Nellore with his wonted energy. It is with pleasure that I again acknowledge the valuable and zealous services of Mr. W. Wilson, the Acting Sub-Collector of the Kistna District, on special duty in this Department, and of Mr. J. H. M. Cox, Officiating Deputy Director in Cuddapah and Kurnool. The latter gentleman speaks favorably of his two Assistants, Captain C. J. Stuart and Mr. R. V. Mayer, as well as of his Native Uncovenanted Assistant Y. Senkiah Row, who, after a long and faithful service under Government, will shortly send in his application for a Pension. Now that the Settlement of the Godavery District has been brought to a close, it is right also that I should place on record my sense of the value of the services rendered by Native Uncovenanted Assistant P. Venu Row from the commencement of the operations to the present time. At first as Inspector and Supervisor, and afterwards in his present post, he has at all times given satisfaction, and for some years past he has been my right hand man in the Godavery District. He will now be transferred to the Nellore Party under Mr. Rundall.

I have the honor to be,
Sir,
Your most obedient servant,
(Signed) R. E. MASTER,
Director of Revenue Settlement.

Comments of the [illegible] [illegible]
the Board submitted in [illegible]
[illegible]

APPENDIX—A.

Statement shewing the extent of Demarcation and Classification work performed by the Settlement Parties and the expenditure incurred thereon for 1867.

Districts and Talooks.	No. of villages completed.	No. of villages in progress.	Ayakut or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of work in the Office.	Local superintendence.	Central Office proportion.	Total.	Average cost per square mile.		
Godavery.			S.M.	S. M.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	A.	P.
Nursapur	...	...	...	...	400	...	315	245	960	...	...	...
Nagaram	...	...	...	...	2	...	2	1	5	...	...	...
Tanuku	...	...	...	...	109	...	86	67	262	...	...	...
Undi	...	...	...	...	7	...	5	4	16	...	...	...
Amlapur	...	...	...	...	403	...	318	247	968	...	...	...
Ramachendrapur	...	...	...	...	177	...	140	109	426	...	...	...
Rajahmundry	...	...	...	...	...	...	...	...	...	...	...	...
Peddapur	...	...	...	...	18	...	14	11	43	...	...	...
Yernagudem	...	...	...	...	4	...	3	3	10	...	...	...
Ellore	...	...	...	...	8	...	6	5	19	...	...	...
Total	...	...	...	23·17	1,128	...	889	692	2,709	...	...	...
Classification and Assessment.												
Nursapur	...	...	...	...	15	62	61	48	186	...	...	...
Nagaram	...	...	...	...	4	156	126	98	384	...	...	...
Tanuku	...	...	...	...	12	151	129	100	392	...	...	...
Undi	...	...	...	...	11	150	127	99	387	...	...	...
Amlapur	...	...	...	...	30	1,350	1,088	847	3,315	...	...	...
Ramachendrapur	...	...	...	...	11	1,624	1,289	1,003	3,927	...	...	...
Rajahmundry	...	...	...	...	...	527	415	324	1,266	...	...	...
Peddapur	...	...	...	...	10	464	374	291	1,139	...	...	...
Yernagudem	...	...	...	...	13	604	486	378	1,481	...	...	...
Ellore	...	...	...	...	...	621	489	381	1,491	...	...	...
Total	...	...	...	24·60	106	5,709	4,584	3,569	13,968	...	...	...
Cost of printing settlement Registers and of mounting Maps	...	...	...	...	...	10,942	...	3,756	14,698	...	...	...
Total	...	...	...	...	106	16,651	4,584	7,325	28,666	...	...	...
Grand Total	...	...	...	...	1,234	16,651	5,473	8,017	31,375	...	...	...

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A.—(Continued.)

Statement shewing the extent of Demarcation and Classification work performed by the Settlement Parties and the expenditure incurred thereon for 1867.

	Districts and Talooks.	No. of villages completed.	No. of villages in progress.	Ayakut or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of work in the Office.	Local superintendence.	Central Office proportion.	Total.	Average cost per square mile.		
	Kistna.			S. M.	S. M.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	A.	P.
Demarcation.	Rajapet	25	...	...	8·80	219	...	329	188	736	...	...	...
	Bapatla	3	...	...	2·08	176	...	264	151	591	...	...	...
	Krosur	46	1	...	7·59	321	...	482	276	1,079	...	...	...
	Vinukonda	22	...	...	9·47	301	...	453	259	1,013	...	...	...
	Palnad	52	3	...	11·28	363	...	546	312	1,221	...	...	...
	Repalli	...	...	...	[illegible]	17	...	25	14	56	...	...	...
	Guntoor	3	...	...	0·31	9	...	14	8	31	...	...	...
	Total...	151	4	...	40·58	1,406	...	2,113	1,208	4,727	...	...	...
Classification and Assessment.	Bandar	...	...	...	...	18	635	981	561	2,195	...	...	...
	Bezwada	...	...	...	...	...	580	871	498	1,949	...	...	...
	Gudiwada	...	...	...	...	53	721	1,163	665	2,602	...	...	...
	Nandigama	...	...	...	...	...	1,029	1,546	883	3,458	...	...	...
	Rajapet	21	...	...	7·84	237	210	687	393	1,527	...	...	...
	Bapatla	3	...	...	2·01	149	447	896	512	2,004	...	...	...
	Krosur	46	1	...	7·82	225	224	675	386	1,510	...	...	...
	Vinukonda	22	...	...	8·66	212	327	810	463	1,812	...	...	...
	Palnad	52	3	...	11·05	353	209	845	483	1,890	...	...	...
	Guntoor	...	...	...	...	18	180	307	175	680	...	...	...
	Repalli	...	...	...	...	18	296	467	267	1,048	...	...	...
	Total...	147	4	...	37·38	1,283	4,873	9,248	5,286	20,683	...	...	...
	Grand Total...	...	...	...	...	2,689	4,873	11,361	6,494	25,410	...	...	...

A.—(Continued.)

Statement shewing the extent of Demarcation and Classification work performed by the Settlement Parties and the expenditure incurred thereon for 1867.

	Districts and Talooks.	No. of villages completed.	No. of villages in progress.	Ayakut or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of work in the Office.	Local superintendence.	Central Office proportion.	Total.	Average cost per square mile.		
	Kurnool.			Sq. M.	Sq. M.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	A.	P.
Demarcation.	Ramalkota	...	...	3·09	2·94	71	...	51	42	164	...	...	...
	Nundial	...	...	...	...	18	...	13	11	42	...	...	...
	Koilkuntla	...	...	...	...	149	295	318	261	1,023	...	...	...
	Pattikonda... ...	...	...	...	...	686	275	688	566	2,215	...	...	...
	Cumbum	11	...	19·14	13·78	955	362	942	775	3,034	...	...	...
	Markapur	4	...	9·53	8·88	835	306	816	672	2,629	...	...	...
	Total...	15	...	31·76	25·60	2,714	1,238	2,828	2,327	9,107	...	...	...
	Cost of Boundary Pillars...	...	...	...	...	4,167	...	...	...	4,167	...	...	...
	Total...	...	...	...	...	6,881	1,238	2,828	2,327	13,274	...	...	...
Classification and Assessment.	Ramalkota	...	...	3·09	2·48	577	456	739	608	2,380	...	...	...
	Nandikotkur ...	...	...	...	...	...	289	207	170	666	...	...	...
	Nundial	...	...	...	...	...	984	704	579	2,267	...	...	...
	Sirwell	...	...	...	...	...	977	699	576	2,252	...	...	...
	Koilkuntla	...	...	...	...	44	241	204	168	657	...	...	...
	Pattikonda	...	...	...	...	497	220	513	422	1,652	...	...	...
	Cumbum	13	...	39·30	18·16	1,009	307	942	775	3,033	...	...	...
	Markapur	4	...	13·52	0·38	921	251	838	690	2,700	...	...	...
	Total...	17	...	55·91	21·02	3,048	3,725	4,846	3,988	15,607	...	...	...
	Grand Total...	...	...	...	...	9,929	4,963	7,674	6,315	28,881	...	...	...

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A—(Continued).

Statement shewing the extent of Demarcation and Classification work performed by the Settlement parties and the expenditure incurred thereon for 1867.

	Districts and Talooks.	No. of villages completed.	No. of villages in progress.	Ayakut or gross area in square miles.	Actual work in square miles.	Cost of field work.	Cost of work in the Office.	Local superintendence.	Central Office proportion.	Total.	Average cost per square mile.		
	Cuddapah.			Sq. M.	Sq. M.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	A.	P.
Demarcation.	Jammalamadugu...	...	...	...	...	273	267	594	389	1,523	...	...	...
	Proddatur	...	...	...	...	422	341	817	535	2,095	...	...	...
	Cuddapah	...	...	...	...	179	296	522	342	1,339	...	...	...
	Sidhout	...	...	...	...	88	301	428	281	1,098	...	...	...
	Budwail	98	...	366	307	10,176	...	11,188	7,332	28,696	...	...	...
	Pullampet	4	61	58	58	4,476	...	4,921	3,225	12,622	...	...	...
	Total...	102	61	424	365	15,614	1,185	18,470	12,104	47,373	98	8	10
	Cost o Boundary Pillars...	...	...	...	...	1,200	...	...	...	1,200	...	...	...
	Total...	...	...	...	...	16,814	1,185	18,470	12,104	48,573	...	...	...
Classification & Assessment.	Jammalamadugu...	...	...	...	...	610	212	904	592	2,318	...	...	...
	Proddatur	...	...	...	...	572	261	910	609	2,349	...	...	...
	Cuddapah	...	...	...	...	423	241	735	482	1,886	...	...	...
	Sidhout	...	...	...	...	418	247	731	479	1,875	...	...	...
	Budwail	98	...	368	231	7,634	...	8,393	5,501	21,528	...	...	...
	Pullampet	4	43	32	31	1,455	...	1,603	1,051	4,112	...	...	...
	Total...	102	43	400	262	11,120	961	13,282	8,705	34,068	65	14	0
	Grand Total...	...	...	...	...	27,934	2,146	31,752	20,809	82,641	...	...	...

A—(Concluded).

Statement shewing the extent of Demarcation and Classification work performed by the Settlement parties and the expenditure incurred thereon for 1867.

	Districts and Talooks.	No. of villages completed.	No. of villages in progress.	Ayakut or gross area in square miles.	Actual works in square miles.	Cost of field work.	Cost of works in the Office.	Local superintendence.	Central Office proportion.	Total.	Average cost per square-miles.		
Assessment.	*Trichinopoly.*			Sq. M.	Sq. M.	RS.	RS.	RS.	RS.	RS.	RS.	A.	P.
	Binding Settlement Registers	...	...	...	...	...	44	...	15	59	...	...	...
Assessment.	*South Arcot, (Chidambaram.)*												
	Mounting Maps and binding Settlement Registers	...	...	...	...	...	4	...	1	5	...	...	...
Assessment.	*Salem.*												
	Office work	...	...	...	...	...	5,915	2,012	2,721	10,648	...	...	...
	Mounting Maps ...	...	...	...	...	...	289	...	99	388	...	...	...
	Total...	...	...	...	...	...	6,204	2,012	2,820	11,036	...	...	...
Demarcation.	*Tinnevelly.*	...	...	...	...	4,446	...	...	...	4,446	...	...	...
Classification.	*Nellore.*												
	Atmakur	49	11	344	200	2,011	...	1,453	1,189	4,653	...	...	...
	Nellore	...	...	...	...	286	...	207	169	662	...	...	...
	Repur...	2	...	10	2	184	...	133	109	426	...	...	...
	Gudur	...	...	...	1	140	...	101	83	324	...	...	...
	Total...	51	11	354	203	2,621	...	1,894	1,550	6,065	17	2	1

REVENUE SETTLEMENT OFFICE,
MADRAS, 1st *May* 1868.

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

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ABSTRACT OF APPENDIX A.

Districts.	Total expenditure of 1867. Rs.
Central Office	46,021
Godavery	23,358
Kistna	18,921
Kurnool	22,566
Cuddapah	61,832
Trichinopoly	44
South Arcot (Chidambaram)	4
Salem	8,216
Tinnevelly	4,446
Nellore	4,515
Total ...	1,89,923
Add charges not debitable to parties ...	46,673
Grand Total ...	2,36,596

Revenue Settlement Office,
Madras, 1st *May* 1868.

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

APPENDIX B.

Statement shewing the number and description of Boundary marks put up by the several Settlement parties for the year 1867.

Items.	Kurnool.	Cuddapah.	Kistna.	Total.
1	2	3	4	5
Village Boundaries.				
Villages	26	143	...	169
Khandams or Sub-divisions	315	1,418	...	1,733
Tri-junction Pillars	15	215	...	238
Secondary do.	1,146	4,039	...	5,185
Other marks on village Boundaries	627	5,986	...	6,613
Marks on Khandams	3,587	20,949	...	24,536
Field Boundaries.				
No. of villages	15	102	151	268
Villages divided into Khandams. — No. of villages	15	102	2	119
Villages divided into Khandams. — No. of Khandams	325	1,111	6	1,442
Number of fields marked	14,327	73,725	4,066	92,118

Revenue Settlement Office,
Madras, 1st *May* 1868.

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

Revenue Survey Office,
Chepauk, 11th *May* 1868.

No. $\frac{623}{12}$

From
Lieutenant Colonel F. J. B. PRIESTLEY,
Superintendent, Revenue Survey.

To
R. E. MASTER, Esquire,
Director, Revenue Settlement.

Sir,

I have the honor to forward for submission to Government, the Annual Report of Survey and Demarcation operations in 1867, and to state, that my absence from Madras on circuit, and delay in the receipt of the year's Report from a District Survey Officer, are the causes that prevented its submission at an earlier date.

I have the honor to be,
Sir,
Your most obedient servant,
(Signed) F. PRIESTLEY, Lieut. Col.,
Superintendent, Revenue Survey.

REPORT

ON THE

REVENUE SURVEY AND DEMARCATION OF THE MADRAS PRESIDENCY,

From 1st January to 31st December 1867.

No. 1. Revenue Survey—Coimbatore and Salem.—The main body of the party has been employed in the plains of the Coimbatore District, and detachments from it, on the Neilgherry Hills in the Salem District and in Wynaad.

2. Mr. Beaumont was in charge of the Head Quarters; but early in May, Major Hessey who conducted, as directed by the Superintendent, the Demarcation and Survey on the Hills, assumed the charge of it and of its detachments.

3. In June 1867, Major Hessey was directed to concentrate his field establishment and to complete work in certain talooks, in order that better supervision might be exercised. Accordingly, the Boundary Surveyors at work in the Bowany talook were gradually withdrawn, as each finished the village on which he was employed, and drafted either to the Hills or to the Coimbatore, Kistnagherry and Oussoor talooks for the detailed Survey, and to the Palladum and Sattimungalum talooks for the completion of the testing of villages.

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4. The progress made during the year has been as follows:—

	No. of Villages.	Sq. Miles.
1. Boundaries surveyed...	175	573·55
2. Fields measured...	100	444·33
3. Do. plotted...	365	1,058·75
4. Detailed...	710	857·57
5. Area ready for Settlement... ...	318	825·40
6. Maps sent to the Central Office... ...	632	711·24
7. Minor circuits traversed... ...	...	No. 1,724

5. The expenditure has been Rupees 85,957-1-5. The cost per square mile, on the work completed in all respects, is Rupees 120-13-7. The causes of the expenditure being higher than usual are, that the villages closed during the year, had, owing to defective demarcation and consequent bad measurement, difficult ground, &c., remained till the last; that the renewal of demarcation was rendered absolutely necessary by the absence of the marks erected by the late Settlement Department in the Coimbatore and Palladum talooks; that a draft of men was made to the Demarcation parties, &c.

	RS.	A.	P.
Salem...	90	7	10
Trichengode	88	12	0
Ootengiri	95	7	6
Kristnagiri	110	11	2

6. During the year the talooks as per margin were completed at a cost set opposite to each, or at an average cost of Rupees 96-6-8. The Maps of the talooks are completed in all respects as far as surveyed, but their utility is greatly impaired by the blanks in them of unsurveyed Zemindaries. The Superintendent inspected on the ground, Map in hand, a large number of villages in the Oossoor talook, the only one in which a few villages remain to be completed. The accuracy of the work is highly creditable to all employed on it.

Coimbatore.
Palladum.
Sattiamungalum.
Perunthorai.
Bowany.

7. In the Coimbatore District, the talooks named in the margin are under survey; in the first three, field plotting has almost been completed; and the insertion of Topographical details is in progress in the Coimbatore talook. In the last two, the survey of boundary and minor circuits is completed, with the exception of 19 villages in the Bowany talook. Field measurement and plotting are in progress in Perunthorai.

8. The renewal of demarcation in the Coimbatore talook has been taken in hand. The necessity for restoring the marks (not taking into account the impediments to survey resulting from their non-existence) may be judged of from the fact that in the village of Anuparpalaiam, the Head Quarters of the Collector, only one stone in 40, and in the village of Coimbatore, where the Tahsildar's Cutcherry is held, only 1 stone in 1,261 was found on the ground!

9. The Revenue Survey work in the Salem and Coimbatore Districts has been connected with 32 Grand Trigonometrical stations, and the traverse work of the Sheveroys, with 7 minor points fixed by triangulation from G. T. stations. The average error is 1·31 feet per mile.

10. Fines to the extent of Rupees 12 have been inflicted under the Boundary Act.

11. Of the Assistants attached to this Party, Captain Baynes was withdrawn from Survey to organize a Demarcation Party in Darapuram, and was afterwards moved to the Madras District. Lieutenant Frank Eyre was transferred to the Tinnevelly Survey Party, and Lieutenant Sargeant, who joined the Party in September, was sent in charge of the men detached for work in Wynaad. The Survey in the plains and on the Hills was, therefore, carried on by Major Hessey alone, as the Superintendent had no Assistants available for duty under him.

12. The conduct of the subordinates has been good. Major Hessey specially brings to notice the valuable services of the two Sub-Assistants, Messrs. Fraser and Ross, and of the Office Manager, Rungacharry. The season has been healthy, and favorable for field work.

1. Ramalcota.
2. Nundial.
3. Sirwell.
4. Koilkuntla.
5. Patticonda.

NO. 2 REVENUE SURVEY—*KURNOOL*.—13. No. 2 Party has been employed in the talooks named in the margin. In the first three talooks, the process of testing is nearly complete, and the insertion of topographical details, progressing.

14. Mr. Wright, who had been in charge of the Party, was, on the 29th July 1867, relieved by Mr. W. Beaumont. The Party continued under the superintendence of the latter, till compelled by ill-health, he left the District for England. Mr. Wright, for the reasons stated in the Superintendent's letter, given in Government Order of the 26th November 1867, No. 2812, having been removed to another District, Captain Clay was placed in temporary charge for the remainder of the year.

15. The progress of the Survey during the year is given below:—

	No. of Villages.	Square Miles.
1. Boundaries surveyed	30	391·50
2. Fields measured	43	426·08
3. Do. plotted	45	331·09
4. Details inserted	63	328·87
5. Field area for Settlement	72	518·33
6. Minor circuits traversed	...	No. 1,277

16. The expenditure amounts to Rupees 77,948-5-5. The out-turn is small, and cost high, owing to the season having been extremely unfavorable, and to the supervision, for part of the year, having been inefficient.

17. The Talook Map of Nundikotkur has been received at the Central Office. The cost on this completed talook, containing 686·2 square miles, is Rupees 111-13-11 per square mile.

18. During the year, fines, amounting to Rupees 101, have been inflicted in 9 cases; and 7 offenders imprisoned, under the Boundary Act.

19. During August and September last, the Superintendent made a visit of inspection to the District, and found that the conduct of many of the subordinates had not been satisfactory. Some of the Head Surveyors were removed; and the proceedings of Mr. Beaumont, the Deputy Superintendent, in dismissing and reducing several of the lower subordinates, were approved.

20. The season, as has been stated, was very unhealthy. 566 cases of sickness and 15 deaths are recorded in the Dresser's list; and, besides these, a number of men were granted sick leave for various periods. Several resignations were also received on account of ill-health.

1. Jamalamadugu.
2. Poddatoor.
3. Cuddapah.

NO. 3 REVENUE SURVEY—CUDDAPAH.—21. The Party has been employed in the talooks named in the margin, under the orders of Lieutenant Colonel Crewe, assisted, at first, by Mr. J. J. Tomlinson, and, on his transfer to No. 3 Coimbatore Demarcation, by Mr. T. A. Tomlinson. It completed testing and correction in the first, minor circuits and field measurement in the second, and boundary and field Surveys in the third talook.

22. The progress of the Survey during the year has been as follows:—

	No. of Villages.	Square Miles.
1. Boundaries surveyed	135	911·79
2. Fields measured	86	396·04
3. Do. plotted	81	404·22
4. Area for Settlement	25	105·79
5. Minor circuits traversed	...	No. 1,322

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23. The total expenditure has been Rupees 56,687-14-7; or, Rupees 62-2-7 per square mile. The cost per square mile, for work completed in all respects, is higher than it otherwise would be, on account of the climate of the District being most trying and unhealthy, in consequence of which increased rates of salary are demanded, and of necessity given, owing to the paucity of candidates for employment. The men composing the Party, likewise, have, with few exceptions, come from other Districts, principally Godavery and Kistna; and pecuniary inducement is requisite to persuade them to serve in a District not their own, and both expensive and unhealthy.

24. The descriptive list of Trigonometrical stations applied for to the Surveyor General of India not having yet been received, no stations have been identified in the talooks under Survey; it has not, therefore, been possible to apply this test to the work performed by the Revenue Survey.

25. Fines to the extent of Rupees 265 have been inflicted under Act XXVIII of 1860.

26. The year, taken as a whole, has been an unfavourable one; especially as regards the health of the Party, the strength of which has been reduced from 11 to 6 by death, severe illness, and casualties from other causes. Both Col. Crewe and several of his men suffered very greatly from severe attacks of fever.

27. The conduct of the subordinates, notwithstanding the bad climate and effects of the fever, has been, generally, satisfactory.

28. The work has been inspected by the Superintendent.

No. 3 Branch—Kistna.—29. No. 3 Branch, Kistna, completed, under the orders of Mr. Gompertz, the Topographical Surveys in the Palnad, and Hill sketching in the Vinukondah talook, besides the measurement of additional fields to the extent of 24·48 square miles, and was closed early in April 1867. The services of such men, as were unwilling to join the Head Quarters at Cuddapah, were dispensed with.

30. The work done during the year is appended.

	No. of villages.	Square miles.
1. Additional fields measured... ...	...	24·48
2. Detailed	100	573·32
3. Area for Settlement...	36	314·78
4. Do. of additional fields	...	16·14
5. Maps sent to the Central Office... ...	192	1,131·81

31. The expenditure has been Rupees 11,411-2-3.

32. The average cost per mile, for six of the talooks, as per margin, completed, is Rupees 83-4-9. The cost per square mile, in the first two talooks, has been swelled by the cost of re-preparing the maps and records destroyed by the Cyclone in Guntur; a great deal of the land measured in the Repalli talook was under wet cultivation.

	Extent in square miles.	Cost.		
1. Guntur	477·83	100	10	6
2. Repalli	626·03	124	5	7
3. [illegible]	[illegible]	[illegible]	6	11
4. Bapatla	677·63	83	9	1
5. [illegible]	690·38	69	8	2
6. Vinukondah	692·07	[illegible]	10	6

No. 4 Revenue Survey—Tinnevelly.—33. Survey operations have been carried on in five of the talooks as per margin, under the orders of Mr. F. Puckle, assisted by Captain Graham and Lieut. Franklyne.

1. Tenkasi.
2. Tinnevelly.
3. Ambasamudram.
4. Nanganery.
5. [illegible]

34. The progress made by the Party during the year is given below :—

	No. of Villages.	Square miles.
1. Boundaries surveyed	48	155·26
2. Fields measured	122	451·60
3. Do. plotted.	93	382·59
4. Detailed...	84	233·39
5. Area ready for Settlement ...	66	193·23
6. Maps sent to Central Office ...	97	245·47
7. Minor circuits traversed	...	No. 1,660

35. The out-turn is incommensurate with the expenditure during the year, amounting to Rupees 76,700-11-4. Mr. Puckle reports great delay to the work by the non-residence of the village authorities in their respective villages, and by the employment of Kavilgars as chainmen. A notice requiring the presence of Merasidars, published by the Collector in the Tinnevelly Gazette of 16th February 1867, would, it was hoped, have removed this cause of delay; it appears, however, not to have had the desired effect.

36. The Maps of all villages in the Tinnevelly talook have been received at the Central Office; but owing to a recent alteration in the boundary, the talook Map has not been returned as finished.

37. The completion of work in the talooks of Tenkasi and Ambasamudram has been delayed by adopting the Collector's scheme for dividing the District according to irrigation, with a view to the impending Settlement. The Nirarambam, or irrigated portion, being the first required, the small size and irregularity of the fields in it has also been an obstacle to rapid progress. In the Nanganery talook, the Topographical Survey has not been pushed on, as it appears it is in contemplation to bring a large portion of the talook within the irrigated division to be settled.

38. The Revenue Survey in the District has been, during the year, connected with 7 Grand Trigonometrical Survey stations. The average error is 15·2 feet per mile.

39. Fines to the amount of Rupees 256-8-0 have been inflicted under Act XXVIII of 1860. These, compared with the amount of those levied in former years, shew a sensible diminution, this is to be attributed, in part, to the people beginning to appreciate the benefits to be derived from the Survey, and in part, to the subordinate revenue authorities being compelled by the Collector to render assistance to the Department.

40. Mr. Puckle reports favorably of the conduct of the subordinates of the upper grade. The Superintendent, however, had occasion to order the dismissal of a number of the Amins, and men of that class, on account of their work being altogether insufficient. A draft of men of different grades from No. 1 has been made, at the Superintendent's request, by Major Hessey, and, it is hoped, that their example will have a beneficial effect, on the future out-turn of No. 4 Party.

41. Though the work has been a little impeded by rain in the neighbourhood of the Western Hills, and the high winds that prevailed during a great portion of the year caused some injury to Maps in the field, the season has been generally favorable, and sickness among subordinates though large has not been severe.

No. 5 Revenue Survey—Madras.—42. The Head Quarters of this Party was removed, at the beginning of 1867, from Nellore to the Madras District, where it has been employed under the orders of Major Barber, in the Survey of the Sydapet and Trivellore talooks. In the former talook, all the circuit work and field measurements have been completed, with the exception of 5 villages delayed by non-receipt of Demarcation records.

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the Report, still [illegible]
[illegible] in [illegible]

43. The progress of the Party has been as follows:—

	No. of villages.	Square miles.
1. Boundaries surveyed	342	346·80
2. Fields measured	221	225·60
3. Do. plotted	127	81·28
4. Detailed	74	47·33
5. Area ready for Settlement	31	19·49
6. Minor circuits traversed		No. 2,931

44. The total expenditure during the year has been Rupees 51,011-8-11, or at a cost of Rupees 147 per square mile. By comparing the traverse area of 35 villages in the Sydapet talook with their extent by Revenue accounts, an excess of 16·58 acres per cent. has been found. This reduces the cost by Rupees 21 per square mile.

45. Major Barber states that the Demarcation in the talooks under Survey is good and such as he has not seen elsewhere equalled, but that it, not being in a more advanced state, prevented him from turning out a larger amount of work than has been performed. Moreover, the small size of fields and the number of taks into which they have been divided are reported, among others, as retarding causes.

46. Major Barber's statement is undoubtedly well founded, that the Demarcation is not sufficiently in advance of the Survey.

47. At the commencement of 1867 the position of affairs was this—Almost all the men composing No. 5 Party required work, the chief Survey operations in Nellore having been completed. In fact, so far back as May 1866, Mr. F. Puckle, then in charge of No. 5 Party, proposed transferring about half of it to Madras on the 1st September 1866.

48. The Superintendent, therefore, had to choose between keeping the Survey Party in idleness, or transferring it to Madras, and endeavouring to keep Demarcation a head of it, by drafts of men from the Survey, thus increasing the Demarcation Establishment by temporary additions.

49. The chief difficulty experienced has been in obtaining the services of qualified Officers for Demarcation. Two of those employed in Madras have gone Home on sick certificate, and one has resigned his appointment. The present strength of the Demarcation Party is as great as can be properly looked after by a zealous and energetic Officer.

50. Owing to the small sized [illegible] into which the villages are, agreeably to para. 30 of G. O. dated 12th December [illegible], No. [illegible], divided, the cost of circuit work appears larger than elsewhere, but this expenditure is more than sufficiently counter-balanced by village Maps closing easily without being sent to the field more than once to be tested.

51. The Revenue Survey work in the Sydapet talook has been compared with seven G. T. Survey stations; the rate of error varies from 13·68 to 8·22 feet per mile. The average gives [illegible] per mile.

52. Fines have been inflicted under the Boundary Act in 63 cases, to the amount of Rupees [illegible].

53. The season has been generally favorable, and the conduct of the subordinates, good.

54. Of the six Assistant Superintendents that have been posted to the Party, only one remains attached to it. Captain Shortt and Lieut. Williams resigned their appointment; Captain Clay and Lieut. Sargeant were transferred to other Districts; and the services of Lieut. [illegible] were, by order of Government, dated [illegible] October 1867, No. 2,336, placed at the disposal of His Excellency the Commander-in-Chief for duty with the Sappers in Abyssinia.

No. 5. Branch—Nellore.—55. On the transfer of Head Quarters of No. 5 to Madras, a detachment remained behind, to complete the work in the Nellore District.

56. The detachment was placed in charge of Captain Clay, under the supervision of Major Barber and has been engaged in detailing and mapping.

57. The extent of work performed during the year is appended.

	No. of villages.	Square miles.
1. Boundaries surveyed	12	73·75
2. Detailed	283	1,528·31
3. Area for Settlement	230	1,210·32
4. Maps sent to the Central Office	306	1,735·99
5. Minor circuits traversed	...	No. 10

	Extent in Sqr. Miles.	Cost Per. Sqr. Mile.
Nellore...	638·92	122 14 7
Atmakur	618·04	89 1 9
Repur	518·86	89 12 7
Gudur	766·69	79 5 9
Kavali	450·41	82 0 3

58. Of the 9 talooks in the District, those named in the margin have been completed in all respects, at an average cost of Rupees 92-11-4.

59. Five talook Maps have been received at the Central Office during the year.

60. The total expenditure has been Rupees 35,995-14-6.

61. In August last, Major Barber, by order of the Superintendent, inspected the work, and made the arrangements that seemed advisable for the speedy completion of the Topographical Survey, and for the transfer of the Branch Establishment to Head Quarters. The detachment was accordingly removed to Saint Thomas's Mount, leaving Sub-Assistant Mr. Middleton, with a small party of detail Surveyors, to finish the remaining field work, in the Ongole talook. Major Barber states that the District will be completed in all respects in 9 months.

No. 6. Revenue Survey—Ganjam.—62. As directed in G. O. of the 31st August 1865, No. 2,054, the best men of the late Purla Kimedy estate Survey, had been drafted into the Ganjam Survey Establishment; and Survey operations were, at the desire of the Collector of the District, commenced in the Chicacole talook, under the orders of Mr. H. O'C. Cardozo. In December he was relieved of the charge by Mr. Gompertz.

63. The progress of the Survey during the year is given below.

	No. of villages.	Square miles.
1. Boundaries surveyed	161	188·33
2. Fields measured	41	90·63
3. Do. plotted	19	24·54
4. Detailed	2	1·31
5. Minor circuits traversed		No. 1,239

64. The expenditure has been Rupees 32,250-2-5. The outturn is small, and the cost large. This is owing to the party having been under organization till April. The Ameens had to measure fields composed of very small sized taks estimated at 4 or 5 per field. Added to the above, a considerable delay has occurred by the South-West and North-East monsoon having been exceptionally heavy.

65. Mr. Cardozo reports that the Ameens' work, as it has been plotted, is of excellent quality and requires little revision. The increased expenditure in one process of work is thus met by reduction in others.

66. No fines have been inflicted on villagers under the Boundary Act. This was, in a great measure, owing to the cordial assistance rendered him by the Revenue Authorities, especially the Tahsildar, Mr. Thomson.

67. The season has been, on the whole, healthy, and the conduct of the subordinates satisfactory.

68. The Superintendent inspected the party in November last, and found the office in very good order, and the work of the party accurate.

69. NEILGHERRY DEMARCATION AND SURVEY.—The detachment on the Hills has been employed in the Settlements of Ootacamund, Coonoor and Kotagherry. Till the end of April, it was under the immediate control of Major Hessey, when he proceeded to assume charge at Coimbatore, leaving Sub-Assistant Mr. Fraser to direct work at Ootacamund. The Hill stations were visited by Major Hessey at intervals varying from two to five weeks.

70. The boundary of Kotagherry about two miles distant from the Church as centre, and including a space of 11·96 square miles, has been demarcated. The progress of work in other processes are as follows:

1.	Government Reserve	No.	23
2.	Forest Department blocks	„	5
3.	Quit-rent properties...	„	222
4.	Puttah lands...	„	645
5.	Town lots...	„	850
6.	Waste land rules lot	„	24
7.	Roads...	„	107, or linear miles 268·69.

71. The Demarcation of all the blocks on the Hills is very tedious. Boundary disputes are everywhere to be met with, and are not to be settled easily. Even the land-holders in Ootacamund and Coonoor who have purchased the lands from persons that had *no right* to sell them, and who can produce no title deeds granted by Government, are very tenacious. The exact limits of Puttah lands are far from being easily pointed out even by the Curnams, and include from three to ten times the land for which rent is actually paid to Government. As it is now understood that the introduction of the new Settlement, based on Survey areas, will enforce payment of rent to the extent registered in each person's name, great delay occurs on the part of land-holders before the Demarcation of a piece of land can be commenced.

72. The sketches of the various sub-divisions into which each of the three Settlements have been divided are completed.

73. In the erection of stones on the boundaries of settlements and properties, marks deeply cut on rocks were preferred to stones, to prevent the possibility of removing them. The boundaries in Hill Settlements running in a direct line from one station to another, no off-set stones are necessary; and trenches have been dug to prevent encroachment. Quit-rent properties are demarcated with stones of 2 feet × ½ × ½, which, and the labor required for fixing them, are supplied by the proprietors. In other instances, both stones and labor have been supplied by Government and the amount recovered through the Tahsildar. The amount advanced is Rupees 3,179-12-1, out of which Rupees 710-13-9 has been recovered, leaving a balance of Rupees 2,468-14-4.

74. The Demarcation of properties in Coonoor has been completed, and the registers *written up*. All the principal roads within the Cantonment of Ootacamund, or within three miles distant from the Jail as a centre, have been demarcated; also a great portion of the properties within its limits. Good progress has been made in Kotagherry.

75. Appended is given the progress made by the Survey on the Hills.

		Surveyed.	Plotted.	Detailed.
1.	Government Reserves	21	17	5
2.	Forest Department blocks ...	5	...	6
3.	Quit-rent properties	224	89	34
4.	Puttah lands	236	71	26
5.	Town lots	890	81	...
6.	Waste land rules lots	25	22	29

76. The extent of boundary Survey performed is 42·27 square miles, and road Survey 268·69 in linear miles.

77. The total expenditure on Demarcation and Survey is Rupees 33,964-15-5. The cost may, at first sight, appear large; but, it must be remembered that correct Demarcation and accurate Survey on the Hills are very difficult; when therefore, as in this case, these important requirements have been ensured, and the work made permanent, the cost of the Survey on the Hills cannot, it is believed, be considered excessive.

78. At the close of 1867, the boundary Survey of Ootacamund and Kotagherry had been completed. The boundaries of all the properties in Coonoor had been surveyed; considerable progress had been made in the measurement of Quit-rent holdings in Ootacamund. In many parts of the Coonoor Settlement, topographical details had been laid in.

79. The Survey of the Settlements has been connected with a series of minor triangles using a side of one of the G. T. triangles as a base.

80. This work has been tested in the Central Office, and its accuracy reflects great credit on Major Hessey, by whom it was performed in addition to his other numerous duties.

81. No fines have been inflicted under Section IV of the Boundary Act; but 5,402 marks costing Rupees 2,464-10-10 have been put up under Section VII.

82. Work has been much impeded by rain and mist; a fourth part of the working days in a year has been thus lost. For Survey, the season was more unfavorable than for Demarcation.

83. The conduct of the subordinates has not been generally good; but two of the Surveyors have worked very well, and the Sub-Assistant, Mr. Fraser, has conducted himself to the satisfaction of the Officer under whom he was placed.

84. The work on the Hills was inspected by the Superintendent, who was satisfied with the accuracy and stability of the work that had been done.

85. WYNAAD DEMARCATION AND SURVEY.—In Para. 85 of the last year's Report, it is stated that a very few sketches of extension of Coffee cultivation were received from the Deputy Collector, and that a Surveyor was sent to Wynaad, at the beginning of 1867. He surveyed five estates, and reported that the Demarcation was so imperfect that it must be gone over again.

86. In 1867, sixty-six sketches were received, and a small detachment of Surveyors took the field under the superintendence of Lieut. Sargeaunt.

87. Survey operations have been carried on in estates situated in Ouchterloney valley between Seaforth estate and Paria shola, and through some estates on the Sultan's Battery road to Gudaloor, taking in three estates on the Teppucaudoo road, and an estate on the Gudaloor Ghaut.

88. As on former occasions, the Demarcation, performed under the orders of the Deputy Collector, is reported as very imperfect. To render the work permanent by the Survey Department, Lieutenant Sargeaunt undertook the re-Demarcation of these extensions, and thus, three-fourths of the time of his Surveyors was taken up in performing work supposed to have been already performed.

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89. The progress made by the detachment is given below.

	No.	Sqr. Miles.	Linear Miles.
Boundaries of extensions....	18	3·30	...
Circuits within the above...	39	...	...
Roads connecting estates and connecting lines ...	30	...	20·94
Demarcation stones for Boundaries.	3,735	...	...
Do. for roads.	757	...	...

90. The expenditure has been Rupees 6,684-14-9.

91. All the estates demarcated and surveyed have been connected one with another Azimuth observations have been taken at 27 places. The work has been connected by triangulation with G. T. stations. Stones of 2 feet × ½ × ½ with the broad arrow and direction lines cut on them were firmly fixed on the ground, and the Demarcation is rendered permanent and good.

92. The work was inspected by Major Hessey, and was reported to have been performed really well.

93. The season has, on the whole, been favorable for field work. Service in the Wynaad is so much disliked from the numerous hardships that have to be endured, among which the near approach to starvation may, sometimes, be included, that it has been found necessary to increase, to a considerable extent, the pay of the Surveyors ordered there. The conduct of most of them, however, has, I regret to to say, not been satisfactory.

94. CENTRAL OFFICE.—The expenditure in the Central Office has been Rupees 36,983-6-2. As usual, it has been engaged in the checking of accounts, maps and records, and in the preparation of Talook Maps. By desire of the Revenue Board an estimate for an increase to the Central Office Establishment was submitted, and laid before Government, vide Board's Proceedings, 23rd July 1867, No. 4557.

Talooks.	Districts.
Yernagudem. Peddapur.	Godavery.
Namakal.	Salem.
Nandikotakur.	Kurnool.

95. LITHOGRAPHIC PRESS.—During the year, the Press has printed 19,880 copies of 647 Village Maps, comprising an area of 2,777·86 square miles; also 2,100 copies of Vizagapatam District Map, and copies of Photographs of Hill tribes lithographed for the Board of Revenue, and 400 copies of South Canara Map for the Forest Department.

	Rs.	A.	P.
Village Maps	9,728	8	1
Work done for Rev. Board	227	12	8
Forest Department.	31	2	7

96. The expenditure is given in the margin. The cost of lithography is *Rupees* 3-8-0 per mile for Village Maps, or 8 Annas per copy.

97. The extra establishment, sanctioned in G. O. No. 2114 of the 9th September 1867, was entertained from the 12th of that month. The South Arcot District Map has been taken in hand, and is nearly ready for the press. The expenditure incurred for the establishment is Rupees 363-1-3.

98. NO. 1, MADRAS DEMARCATION.—The Madras Demarcation Party has been employed in the Sydapet and Trivellore Talooks, at first, under the superintendence of Lieutenant Cloete, who was in July last, relieved by Captain Baynes, and proceeded to Europe, on sick leave.

99. The work which remained incomplete at the beginning of the year in the former talook was finished, and the Head Quarters removed into the latter, where the Demarcation of almost all villages, (except 90 Government and 40 *Shrotriam* bordering the Kalastry Zemindary) has been completed. The arrangements referred to in Proceedings Madras Government, No. 2,843 of 29th November 1867, for the Settlement, by arbitration of the disputed boundary, between the Government and Calastry Zemindary villages not having yet been carried out, it was necessary to remove the Party to the Ponnairy Talook, leaving 90 Government and 40 Shrotriam villages undemarcated. A small detachment remains in the Trivellore Talook to finish villages already commenced.

100. The total out-turn of the Party is given below.

	No. of Villages.	Square Miles.
1. Boundaries demarcated ...	374	339·53
2. Do. in progress ...	50	73·26
3. Fields demarcated ...	260	191·28
4. Do. in progress ...	37	58·45
5. Sketches completed ...	...	No. 374
6. Do. handed over to Survey ...	...	" 342

101. The total expenditure has been Rupees 47,117-10-0, divided as follows :—

Cost of station stones ...	Rs.	12,284	1	2
Salary of Establishment ...		34,833	8	10
Total...		47,117	10	0

This gives a rate per square mile of

		On area boundary demarcated.			On area field demarcated.		
For agency ...	Rs.	84	6	1	139	7	8
For materials ...		29	12	0	49	3	0
Total...		114	2	1	188	10	8

The cost per square mile on the area boundary demarcated, has, compared with the last ear, fallen considerably; or in the proportion of 7 to 4; but this, and the excessive cost on the cultivated area demarcated, are thus accounted for. When Captain Baynes assumed the charge of the Party, he found that the Field Demarcation was far a head of boundary work, and, with the sanction of the Superintendent, all available men were set at once upon boundary work, and the difference has been adjusted with the exception of 15 villages, which, pending the Settlement of the boundary dispute with the Calastry Zemindar, cannot be returned as complete; nor can their area 17·53 square miles be taken credit.

102. Appended is given the number of boundary and other marks erected during the year under report.

Village Boundaries.

Items.	Total.
No. of villages	374
" Khandams	2,091
" Boundary station stones	4,692
" Offsets	10,089
" Khandam station stones	7,005
" Offsets	23,909
" Minor circuits	348

Field Boundaries.

No. of Villages	260
" Field marks	109,403

The average number of field stones per acre demarcated, in detail, during the year, is 1·06 and costs to Ryots Rupees 0-3-5 per acre. The cost of stones of all kinds supplied by them is

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on ayacut, Rupees 0-2-10, and, on cultivation, Rupees 0-4-11 per acre, exclusive of labor, &c. Including all charges, they are required to pay the cost to them, since the commencement of Demarcation is per acre,

	On ayacut.	On cultivation.
Sydapet...	0 6 4	0 8 7
Trivellore	0 6 0	0 8 7

The average expense to Government per acre for a village "field and boundary demarcated" is as follows:—

Stones.	Establishment.	Total.
0 1 3	0 3 6	0 4 9.

103. During the year, 55 boundary disputes have been settled, and only 13 remain to be disposed of; besides these, there are 83 villages in the Trivellore talook, bordering on the Kalastry Zemindary, the boundaries of which are uncertain.

104. Rupees 13,101-9-0 have been advanced to Ryots for the purpose of Demarcation, and Rupees 7,258-7-6 recovered, leaving a balance of Rupees 5,843-1-6. The advances have been recovered through Tahsildars of the respective talooks. Were all Demarcation operations done under Section VII of the Boundary Act, the cost to Government would be much lessened, and expense to Ryots would not be materially increased, inasmuch as the time of the field hands would not be wasted by the ryots failing to supply materials, and there would be no opening for false charges being made of refusing to supply the stones required of them for field Demarcation.

105. Fines to the extent of Rupees 238 have been inflicted under the Boundary Act. The number of offenders were 45. These fines have been found necessary to prevent Ryots from causing great delay to the work by non-attendance, although duly and repeatedly warned.

106. The conduct of the field establishment has not been satisfactory. One of the Inspectors was remanded to the Survey on reduced pay, and a Deputy Inspector dismissed. The tone of the Party has been improved by discharging some of the field Gumastahs.

107. The season, as far as Demarcation operations are concerned, does not call for any special remark.

108. The work in the District has been inspected by the Superintendent twice during the year, and the result of the first inspection submitted to the Board of Revenue in his letter of the 23rd July 1867, No. [illegible].

109. *No. 2.* GANJAM DEMARCATION.—The Party has been employed in the talooks of Chicacole and Berhampore, at first, under the immediate charge of Mr. B. Puckle, and subsequent to his resignation, of Mr. Dunsford, supervised by Mr. Cardozo, the Officer in charge of the District Demarcation and Survey.

110. The annexed Statement shows the progress of work during the year.

	No. of villages.	Square miles.
1. Boundaries demarcated ...	164	113·81
2. Do. in progress ...	76	75·28
3. Fields demarcated ...	104	118·06
4. Do. in progress ...	39	48·25
5. Sketches completed ...	No.	163
6. Do. handed over to Survey ...		163

111. The total expenditure, inclusive of Rupees 2,304 on account of stones, is Rupees 14,963-1-10; and the cost per square mile to Government has been

	On area boundary demarcated.	On area field demarcated.
	Rs. A. P.	Rs. A. P.
For Agency... ...	62 2 1	72 4 8
,, Materials... ...	14 15 4	17 6 6
Total...	77 1 5	89 11 2

The cost per acre of cultivation is Rupees 0-2-3 or Rupees 0-1-8 less than that in 1866.

112. The out-turn, though at a reduced cost, is still inadequate. This Mr. Cardozo attributes

1st. To the small size of the holdings.

2nd. To the difficulty in obtaining stones, and

3rd. To the state of the country demarcated (chiefly under wet cultivation) owing to heavy Monsoons. When it is considered that the Demarcation is more complete than elsewhere, and the Principal Assistant Collector of the District testifies to its value, the result cannot but be considered, on the whole, satisfactory.

113. From the annexed Statement, showing the number of boundary and other marks erected during the year, it will be observed, that the average number of field stones per acre of cultivation is 3·8, the cost Rupees 0-2-5 in Chicacole, and Rupees 0-3-9 in Berhampore per acre to Ryots. The cost of stones of all descriptions supplied by them is on ayacut Rupees 0-3-10 and on cultivation Rupees 0-4-6 per acre exclusive of labor, embedding and the clearing of chain lines.

Village Boundaries.

ITEMS.	Total.
1. No. of Villages ...	240
2. ,, Khandams ...	1,774
3. ,, Boundary station stones ...	3,242
4. ,, Do. offset do. ...	28,727
5. ,, Khandam station do. ...	5,486

Field Boundaries.

ITEMS.	Total.
1. No. of Villages ...	144
2. ,, Field marks ...	4,05,834

114. The amount advanced to ryots, on account of Demarcation, has been, during the year, Rupees 25,406-7-8, out of which Rupees 2[illegible]-1-11 has been recovered, leaving a balance of Rupees [illegible]. The collection is entrusted to check peons, assigning to each [illegible] villages, and allowing them certain per centage besides their pay for speedy collection.

115. These fines [illegible] inflicted under the Boundary Act, the villagers having rendered willing assistance.

116. [illegible] under Act XXVIII of 1860, and [illegible] during the year by the [illegible]

117. [illegible] by the Superintendent in November last and found good.

Were made as
the Report, still it
[illegible] in [illegible]

118. The conduct of many of the subordinates has not been satisfactory, the Boundary Inspector, however has been favorably mentioned by Mr. Cardozo.

119. There has been very little sickness and the season has been remarkably favorable.

No. 3. COIMBATORE DEMARCATION.—120. This Party organized under the Revenue Survey, has been employed in 49 villages of the Darapuram talook, left untouched by the late Settlement Department. Preparations have also been made for commencing work in Caroor.

121. A small draft of carefully selected men from No. 1 Party, was placed in charge of Captain Baynes, under the supervision of Major Hessey. Captain Baynes proceeded to Darapuram, and kept them under instruction till each could satisfactorily perform a portion of work assigned him. The party was gradually brought up to full strength; but it was not till near the close of the year that it became anything like complete. Captain Baynes was relieved by Mr. J. Tomlinson and proceeded to assume charge of No. 1 Madras Demarcation.

122. The amount of work performed during the year is shown below.

	No. of villages.	Square miles.
1. Boundaries demarcated ...	47	407·23
2. Fields demarcated ...	12	44·42
3. Boundary and Field Demarcation in progress ...	37	120·7
4. Sketches completed ...		No. 12
5. Do. handed over to Survey ...		[illegible]

123. The villages in the talook are large, many of them more than 10,000 acres, and therefore a very long time is required to complete the Demarcation of a village; consequently, though [illegible] square miles have been actually demarcated, only 12 villages, containing 44·42 square miles, are returned as complete. The party was organized in June 1867, and work actually commenced during the month following, [illegible] to the augmentation of the party, the [illegible] of work [illegible]

124. The expenditure has been Rupees [illegible] [illegible] of Demarcation [illegible]

	[illegible]	[illegible]
For Agency ...	[illegible]	[illegible]
For Material ...	[illegible]	[illegible]
Total ...	[illegible]	[illegible]

[illegible]

Village Boundaries.

Items.	Total.
1. No. of villages ...	47
2. „ Khandams...	816
3. „ Boundary station stones...	3,009
4. „ do. offset do. ...	13,642
5. „ Khandam station do. ...	3,209
6. „ do. offset do. ...	19,738

Field Boundaries.

1. No. of villages. ...	49
2. Field marks...	52,005

The average number of stones per acre demarcated in detail is 0·5, and cost to Ryots 0-1-3. The cost to them for all stones required of them is on Ayacut 0-1-5 and on cultivation 0-2-11.

126. Nineteen disputes were disposed of up to the end of the year, one of long standing; of these some were settled by amicable adjustment.

127. No advances other than for pattern stones, amounting to Rupees 25-13-4, have been made to Ryots, as they, without any trouble whatever, supplied stones, carriage and labor. The good will evinced, Major Hessey considers due to the Demarcation not having run counter to native prejudices, and that their wishes have been consulted as much as possible; that is, that each separate property has been marked out separately.

128. Fines to the extent of Rupees 121 have been inflicted in six cases under the Boundary Act.

129. The conduct of the subordinates with one or two exceptions has been very good, and the season favorable.

130. GENERAL REMARKS.—It is with pleasure I find it my duty once more to record my obligation to Major Hessey for the services rendered to the Department. He has almost unaided, ably and efficiently directed Survey operations in the Districts of Coimbatore and Salem, on the Neilgherry Hills, and in Wynaad. A Demarcation Party in the Darapuram Talook was also set on foot, and supervised by him. To him moreover, I am indebted for many valuable suggestions, more particularly regarding Demarcation.

131. Mr. Cardozo, who was recommended for the increased rate of pay in the Report for the year 1866, which (recommendation has not, I regret to say, yet been carried out) still continues to perform his duty with zeal and intelligence. He was entrusted with the organization of a Survey and Demarcation Party [illegible] and deserves much credit for the manner in which he has overcome the difficulties in his way.

132. Both Lieutenant [illegible] and Captain Baynes, who have been successively in charge of [illegible] [illegible] Major Hessey mentions Mr. J. Tomlinson [illegible] Demarcation [illegible]

Revenue Survey Office, { (Signed) [illegible],
Coimbatore, [illegible] 1868. { Superintendent, Revenue Survey.

[illegible] made [illegible]
the Report, still it
[illegible] in [illegible]

[illegible] Surveyed and costs incurred during the year 1867

[illegible]	Expenditure of each party including share of Control Office	Charges to General Fund: Regimental Allowance of the Staff and Officers	Measures and Coolies	Instruments issued	Total chargeable to General Fund	Total expenditure including all charges	Remarks
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
[illegible]	[illegible]	[illegible] 14 [illegible]	9 11 [illegible]	417 [illegible] 0	8,721 9 10	92,997 [illegible] 4	
[illegible]	[illegible]	2,002 0 1	7,678 [illegible]	58 12 0	9,593 15 6	85,000 [illegible]	
[illegible]	[illegible]	11,178 5 0	5,728 9 1	0 0 0	16,904 14 1	75,121 15 [illegible]	
[illegible]	[illegible]	[illegible]	0 6 0	38 [illegible] 0	5,849 4 [illegible]	[illegible] 10 [illegible]	
[illegible]	[illegible]	[illegible]	0 0 0	2,122 7 [illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible] 5 11	15,799 1 6	2,517 1 10	80,127 13 8	4,85,206 0 7	
[illegible]	[illegible]	2,813 10 6	0 0 0	58 8 2	9,902 2 8	34,003 13 7	
[illegible]	1,184 11 3	40 0 0	0 0 0	0 0 0	0 0 0	1,184 11 3	
[illegible]	[illegible]	739 4 0	0 0 0	0 0 0	739 4 0	3,240 9 8	Exclusive of Rs. [illegible], debitable for 1868.
[illegible]	[illegible]	46,157 4 5	16,156 7 6	2,005 10 0	68,759 5 11	5,04,290 6 1	

Revenue Survey Office,
Chepauk,
11th May 1868.

(Signed) F. PRIESTLEY, Lieut. Col.,
Superintendent, Revenue Survey.

Statement of Expenditure of the Revenue Survey, Lithographic Department, for the year 1867.

	Extent in square miles.	Expenditure.			Cost per square mile.		
		Rs.	A.	P.	Rs.	A.	P.
Village Maps...	2,777·86	9,728	3	1	3	8	0
Total......	2,777·86	9,728	3	1	3	8	0

Revenue Survey Office, }
Chepauk, 11*th May* 1868. }

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

Statement of Comparative distances between Grand Trigonometrical Stations.

Districts.	Stations.	Distances. By Trigonometrical Survey.	Distances. By Revenue Survey.	Difference.	Error per mile.
Salem.	Tainandamalli to Womooloor Fort	161,379·6	161,987·4	607·8	19·88
	Ossoor H. P. to Berrabetta	108,763·7	109,364·1	600·4	29·14
	Kistnagherry to Tripatore P...	129,044·5	128,851·1	193·4	7·91
	Tullamalli to Yaelmatoor H.	210,124·0	209,716·1	407·9	10·25
	Sunkerry Droog to Bhavany P.	64,485·0	64,345·0	140·0	11·46
Salem Sheravoy Hills.	Martin H. to Prospect Point	2,892·0	2,889·0	3·0	5·55
	Prospect Point to South Hill (Twin H.)	13,164·0	13,167·0	3·0	1·20
	Fisher's Hill to Prospect Point...	1,939·0	1,953·0	14·0	38·88
	Martin Hill to Annamalayar Mallay	12,781·0	12,697·0	84·0	34·71
	Annamalayar Mallay to South H. (Twin H.) ...	4,258·0	4,231·0	27·0	33·75
	Do. to Sholaycadu	16,263·0	16,341·0	78·0	25·32
	Do. to Pilyoor Mallay... ...	23,757·0	23,951·0	194·0	43·20
Coimbatore.	Iyempolliam H. to Shevanamputty	82,267·4	82,027·0	240·4	15·43
	Do. to Arsanamalli...	129,323·6	129,200·2	123·4	5·01
	Do. to Irrumberra H.	141,759·4	141,493·2	266·2	9·91
	Shevanamputty to do.	101,760·9	101,550·2	210·7	10·93
	Arsanamalli to do.	162,373·7	162,187·7	186·0	6·05
	Kooreedy peak to do.	114,231·6	114,038·7	192·9	8·91
	Thittamalli to do.	96,517·7	96,432·5	85·2	4·66
	Do. to Shennimalli...	107,409·5	107,243·3	166·2	8·17
	Do. to Arsanamalli	76,051·9	75,904·2	147·7	10·25
	Thittamalli to Gopa Chettypalliam	49,036·4	48,921·6	114·8	12·36
	Do. to Yaelmatoor H.	150,195·2	149,930·9	264·3	9·29
	Hallagamalli to Iyempolliam H.	79,508·2	79,497·0	11·2	0·74
	Do. to Yaelmatoor H.	130,600·5	131,027·6	427·1	17·27
	Do. to Shennimalli	74,520·2	74,295·4	224·8	15·92
	Arsanamalli to Wooteulee P.	24,750·1	24,651·9	98·2	20·94
	Do. to Shennimalli	31,914·8	31,891·7	23·1	3·82
	Sattimungalem to Thittamalli	68,935·0	68,827·0	108·0	8·27
	Do. to Irrumberri H. P.	77,241·3	77,126·5	114·8	7·84
	Yaelmatoor to Shennimalli	60,308·1	60,120·9	187·2	12·11
	Kooreedy peak to Shevanamputty	44,126·2	44,314·6	188·4	22·54
	Do. to Shoreemalli	71,544·6	71,575·4	30·8	2·27
	Gopa Chettypalliam to Irranberry H.	131,963·4	131,751·2	212·2	8·49
	Shennimalli to Wooteulee P...	50,976·3	50,880·8	95·5	9·89

[illegible] made to
the Report, still it
[illegible] in [illegible]

Statement of Comparative distances between Grand Trigonometrical Stations.—Continued.

Districts.	Stations.	Distances.		Difference.	Error per mile
		By Trigonometrical Survey.	By Revenue Survey.		
Tinnevelly.	Villakotta S. to Coonatoor H. S.	43,278·0	43,062·0	216·0	26·4
	Do. to Vullanaud H. S.	99,960·0	99,485·0	475·0	25·1
	Do. to Jaulaootpothe L.	36,128·0	35,931·0	197·0	28·8
	Do. to Pool Moodear H. P.	78,783·0	78,383·0	400·0	26·9
	Do. to Kuniampotha L.	108,364·0	108,434·0	70·0	3·4
	Munpotha L. to do.	88,877·0	88,691·0	186·0	11·0
	Do. to Nagalaucherry	87,012·0	86,849·0	163·0	9·9
Madras.	Mowbray's House to Mount Flagstaff	20,156·0	20,209·0	53·0	13·86
	Perambak H. S. to Mowbray's House	53,978·0	54,075·0	97·0	9·47
	Perambak H. S. to Mungot H.	56,151·0	56,299·0	148·0	13·88
	Do. to St. Thomas' Mount	43,585·0	43,653·0	68·0	8·22
	Mungot H. to do.	34,013·0	33,928·0	85·0	13·22
	Do. to Taudray S.	47,024·0	47,106·0	82·0	9·19
	Do. to Tinnanore P.	45,529·0	45,626·0	97·0	11·22

REVENUE SURVEY OFFICE,
CHEPAUK, 11*th May* 1868.

(Signed) F. PRIESTLEY, LIEUT. COLONEL,
Superintendent, Revenue Survey.

Statement shewing the extent of Demarcation work performed by the Demarcation Parties and the expenditure incurred thereon for 1867.

Districts and Talooks.	Number of villages completed.	Number of villages in progress.	Actual work in square miles.	Cost.	Share of Central Office.	Total.	Average cost per square mile.	Cost of Pillars.
				RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1. Madras Demarcation ...	374	50	412·79	34,833 8 10	3,381 1 10	38,214 10 8	92 9 2	12,284 1 2
2. Ganjam do.	164	76	194·09	12,059 1 10	1,690 8 11	13,749 10 9	70 13 5	2,904 0 0
3. Coimbatore do.	47	37	527·98	10,048 6 11	3,381 1 10	13,429 8 9	25 6 10	3,735 0 3
Total...	585	163	1,134·86	56,941 1 7	8,452 12 7	65,393 14 2	57 3 11	18,923 1 5

REVENUE SURVEY OFFICE,
CHEPAUK,
11th *May* 1868.

(Signed) F. PRIESTLEY, LIEUT.-COL.,
Superintendent, Revenue Survey.

made no
the Report, still
in

[illegible] 1856 – " [illegible] 9
August 1857 " " 574 5
September " " 140 - 141
4 October " " 113 - 114
31st " " " 603 - 604
5 November " – 9 - 92
26th " " " 497 - 498
29th " " " 574 - 575
27th January 1858 " 443 - 445
14th February 1858 " 59 - 60
20th May " " 502 - 509
9th January 1857 " 107 - 108

7/3/94

R. D. 30th June
No 4824

4th Jany/69
O. No 97

Copy of letter from Dir. of Rev. Settt. to Madras to the Board of Rev. dated 9th May 1868 reg. the operations of the Settt. & Survey Depts. during 1867.

In Ro: G. O. 16th Jy 1869 No. 9

Revenue Department.

No. 97.

PROCEEDINGS *of the* **MADRAS GOVERNMENT.**

Under date the 14 ~~July~~ Jany 1869

Read the following Procgs. of the Board of Revenue.

Submitting for information reports from the Director of Revenue Settlement and Superintendent of Revenue Survey on the operations of the departments during year 1867 – (Recorder 30th June 1868 No 4824)

1. The Board of Revenue submit without comment the report of the Revenue Settlement and Survey operations for the year 1867.

2. There has still been considerable delay in forwarding this report though not so much as in last year. The Govt. observe that although the Board have made no remarks on the Report, still it [illegible] in these

office for nearly two months.

The Settlement appears to have worked favourably in those ~~Districts~~ Divisions where it has been completed viz. in Chidambaram Taluk South Arcot, Kurnool proper, and the Masulipatam division of Kistna District.

No report appears to have been received from the Collector of Tinnevelly on the operations carried on under his superintendence.

It is to be regretted that so much time and ~~[illegible]~~ labour has been ~~[illegible]~~ necessarily expended in the re-classification of the Nellore District.

In the report on the Revenue Survey operations nothing calls for special remark except the ~~disappearance~~ removal of the demarcation stones in Coimbatore Taluk alluded to in para. 8. The Board should direct the special attention of the Collector to this point.

7. The Govt. would suggest for ~~the~~ consideration of the Board whether it would not simplify matters if only one Administration Report ~~for the official year~~ were submitted by the two Departments. At present one Report ~~in former~~ giving full details for the Calendar year is furnished to the Board, and subsequently a shorter Report for the official year, giving a brief resumé of operations is submitted direct to Government. It would entail less labour if only one Report for the official year were submitted through the Board with their remarks.

H.S.

14 Copies to the Bd of Rev Despt 15
13 — D. of Rev. Settt 6
13 — Supdt of Rev. Survey 5

38

[illegible] 1867

[illegible] would supp-
for the Consideration of
the House whether
it would not be highly
[illegible]
[illegible] Petition
[illegible]
[illegible]

The Report in favour
[illegible] Bill [illegible]
[illegible]
[illegible] the House
[illegible]
[illegible] Report [illegible]
[illegible]
[illegible]
[illegible]
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[illegible]
[illegible]
Report for the [illegible]
[illegible]
[illegible] the [illegible]
[illegible]