Revenue (1[illegible]epartment.

ORDINARY.

G.O. No. 418

DATED 8-8-1871

418

[Despatch Abstract.]

No. 124. Read the following Proceedings of the Board of Revenue, dated 17th September 1870, No. 5,777:—

Read the following letter from the Acting Director of Revenue Settlement, to the Acting Secretary to the Board of Revenue, dated Madras, 21st July 1870, No. 1,092-30.

I HAVE the honour to submit the Annual Report on the operations of the Revenue Settlement Department during the official year 1869-70, together with the usual Appendices.

2. I shall, in accordance with the custom hitherto maintained by Mr. Master, refer to the present condition of affairs as regards the cultivation in, and the assessment of, those districts and parts of districts which have been already settled by this department.

3. *Result of the new Settlement in the Chellumbrum Taluq of South Arcot.*—There has been no change in the number of villages under the new Settlement since last year. In Fasli 1279 the aggregate area under cultivation was 132,135 acres, and the assessment, including Kusser and second crop, Rs. 5,19,768. Although there is an increase in the cultivated extent of acres 821, and Rs. 1,727 in Land Revenue proper and second crop, the large decrease of Rs. 2,870 in the item of Kusser or additional Water-tax has contributed to neutralize the advantages gained by the two former items over the results of the previous year. The marginal Statement exhibits the revenues of both Faslies under each head.

Items.	Fasli 1278.	Fasli 1279.	Difference.
Extent, acres...	131,314	132,135	+ 821
Assessment, Rs.	4,94,929	4,96,201	+ 1,275
Kusser, ,,	18,539	15,669	— 2,870
Fassaljasti, ,,	7,443	7,895	+ 452
Total Rs...	5,20,911	5,19,768	— 1,143

4. *Result of the new Settlement in Trichinopoly.*—The new settlement was introduced in Fasli 1274, and it is gratifying to note that the revenue of the past year is far higher than that of any of the previous years, subsequent to the introduction of the revised rates as shown in the marginal Statement. It will thus be seen that the area under cultivation in Fasli 1279 was acres 1,043,653, with an assessment of Rs. 13,24,782, leaving consequently only Rs. 57,392 to be recouped by extended cultivation, in order to bring up the Land Revenue to the figures at which it

Faslies.	Extent.	Assessment.
	ACRES.	RS.
1274...	7,64,494	11,94,018
1275...	8,36,3[illegible]	12,72,688
1276...	8,86,7[illegible]	13,25,239
1277...	9,31,636	13,71,751
1278	9,50,766	13,90,385
1279...	10,43,654	13,24,782

stood the year previous to the new settlement. The examinations undertaken by the Collector in which this department likewise aided have greatly tended to increase and establish the Land Revenue up to its proper standard, as numerous concealed items were thus brought to light not only as temporarily but as permanent enhancements.

5. *Result of the new Settlement in the Masulipatam Division of the Kistna District.*—The effect of the new Settlement for Fasli 1279 in this district exhibits an increase of 14 per cent. over the Settlement demand of Fasli 1278, that of Fasli 1279 being Rs. 7,39,676 against Rs. 6,48,696 of the previous year. I regret being unable to give more detailed information as was done in the Report for last year, similar Returns not having been received from the Collector of the district as yet. The Uncovenanted Assistant when speaking of this settled portion of the district says: "The new settlement has now been in force in the Masulipatam "Division for four years. In the previous year (1278) heavy relinquishments were "made in the Gudiwada Taluq, and the consequence was that the demand of that "year fell short of the demand of the preceding years. This year the result is "favourable again, owing, I may safely say, to two things:"—

"1*st*.—Steadiness of high prices."

"2*nd*.—Disbelief in the probability of the mischievous rumour of raising the "Water-rate to 6½ Rs. per acre ever coming into operation."

		RS.
Amarakum of Fasli 1279	...	= 7,39,676
Amarakum of Fasli 1275	...	= 6,16,715
		1,22,958

It may be noted that the settlement demand of last Fasli exceeded that of the year previous to the new settlement by Rs. 1,22,958 as shown in the margin. Jummahbundy Beriz is not yet to hand.

6. *Result of the new Settlement in Kurnool Proper.*—The following statement shows the condition of that portion of the Kurnool District in which the new settlement is in force. The extent and assessment for Fasli 1279 is given at 625,174 acres and Rs. 6,82,469, respectively, resulting in a decrease of 4,541 acres and 11,134 Rs. in comparison with the previous Fusly:—

Taluqs.	No. of villages.	Demand, Fasli 1278.		Demand, Fasli 1279.		Difference.	Per-centage
		Area.	Assessment.	Area.	Assessment.		
		ACRES.	RS.	RS.	RS.		
Ramalakota ...	100	202,258	1,67,710	1,97,312	1,64,506	— 3,204	— 2
Nandikotkur ...	94	170,871	1,99,132	1,91,708	1,95,220	— 3,912	— 2
Nandial	91	135,323	1,80,935	1,41,046	1,80,702	— 233	— 0
Sirwell	85	121,263	1,45,826	1,19,048	1,42,041	— 3,785	— 2
Total...	370	629,715	6,93,603	6,25,174	6,82,469	— 11,134	— 1

The local Revenue-officers were asked the cause of this decrease, but as yet no answers have been received. It may be remembered that the new settlement was introduced into Kurnool gradually year by year; but the accompanying statement shows that last year's settlement demand was below that of Fasli 1273, the year previous to the new settlement by Rs. 46,995:—

Taluqs.	Fasli 1273.	Fasli 1279.	Difference.	Per-centage Columns 2 and 3.
1	2	3	4	5
	RS.	RS.		
Ramalakota ...	1,65,096	1,64,506	— 590	0
Nandikotkur ...	1,94,178	1,95,220	+ 1,042	1
Nandial... ...	2,01,261	1,80,702	— 20,559	10
Sirwell	1,68,929	1,42,041	— 26,888	16
Total...	7,29,464	6,82,469	— 46,995	6

7. As regards the Godavery no returns have up to this date been supplied.

8. It may be deemed interesting to see the average excess which has been maintained during the past year by the current selling prices over the several commutation rates as finally fixed for each settled district, and I accordingly annex the following statement which embraces the standard grains:—

Particulars.	Godavery.		South Arcot.		Trichinopoly.		Kurnool.		Kistna.		Salem.	
	Commutation price per garce.	Selling price per garce of Fasli 1279.	Commutation price per garce.	Selling price per garce of Fasli 1279.	Commutation price per garce.	Selling price per garce of Fasli 1279.	Commutation price per garce.	Selling price per garce of Fasli 1279.	Commutation price per garce.	Selling price per garce of Fasli 1279.	Commutation price per garce.	Selling price per garce of Fasli 1279.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Paddy 1st sort	72 0 0	129 0 0	71 12 8	187 0 0	66 10 8	184 0 0	110 0 0	203 0 0	90 0 0	163 0 0	100 0 0	176 0 0
Do. 2nd do.		117 0 0		172 0 0		167 0 0		181 0 0		155 0 0		156 0 0
Cholum ...	84 0 0	142 0 0	116 10 8	203 0 0	100 0 0	167 0 0	105 0 0	170 0 0	95 0 0	181 0 0	100 0 0	184 0 0
Cumboo ...	60 0 0	110 0 0	93 5 4	201 0 0	83 5 4	169 0 0	... ...	180 0 0	70 0 0	157 0 0	100 0 0	0 0
Raggy ...	66 0 0	133 0 0	93 5 4	199 0 0	83 5 4	170 0 0	... ...	163 0 0	... ...	160 0 0	100 0 0	163 0 0
Varagu ...	... ...	125 0 0	51 13 8	129 0 0	50 0 0	102 0 0	60 0 0	119 0 0	... ...	144 0 0	... ...	104 0 0

9. *Proposals for the Settlement of other districts.*—The proposal to extend the new settlement to the Guntoor Division of the Kistna District was forwarded to the Board of Revenue, with my predecessor's letter of the 23th August 1868, No. 1,018, and the results of certain modifications proposed by the Board in their Proceedings of the 9th March last, No. 1,628, are in course of transmission* for their consideration.

* Submitted to the Board on the 19th July 1870.

10. The Deputy-Director in Nellore is actively engaged in the preparation of the details necessary for the submission of his report on the six taluqs comprising the principal division of the district. When at Nellore I had the opportunity of discussing with Mr. Rundall many points intimately connected with the settlement, so that I trust at no distant date to be able to submit proposals for these six taluqs of the Nellore District.

11. The separate report for Pattikondah, one of the unsettled taluqs of Kurnool, has been drawn up by the Deputy-Director, as already arranged by Mr. Master, in communication with Government. Upon going into the report some modifications were found to be necessary; these have been carried out, and all is now ready for submission. As, however, my experience of this taluq is limited to three months, acting as Collector of Kurnool, I hesitate to submit a measure of such importance without some knowledge of the locality, and without personal communication with the local Revenue-officers and resident ryots. Early next month (August) I hope to visit the Pattikondah Taluq, and then at once send on the proposals and details for its settlement.

12. *Scene of operations during the period under report.*—During the past 12 months of the official year, which this report embraces, operations were continued in the districts of Cuddapah, Nellore, and Salem, and to a limited extent in the Kistna and Kurnool Districts. In the Cuddapah District the work consisted of demarcation and classification on the combined system; in Nellore, of classification solely and of a small extent of demarcation rendered necessary by new fields being taken up. In Salem the carrying out of the settlement authorized by Government in their Orders of the 28th September 1869, No. 2,631, was undertaken by Mr. Goodrich, the Deputy-Director, then appointed; and the Ahtoor Taluq was at once taken in hand. In the Kistna District several of the lankas, which, owing to their fluctuating character, had been excluded from settlement in the original scheme, were demarcated and classified. Many of these islands† were examined and found to be on a sufficiently high level to justify their being treated like the ordinary Government lands.

† 259 in number.

13. The Statements in Appendix A. exhibit in detail the work performed and expenditure incurred in each district. The annexed abstract gives the results at one view, and compares the figures for 1869-70 with those for the year 1868-69:—

Comparative Statement showing the extent of square-miles and expenditure and average cost per square-mile for the official year 1868-69 and 1869-70.

Name of Districts.	Demarcation. Extent in square-miles. 1868-69.	Demarcation. Extent in square-miles. 1869-70.	Demarcation. Expenditure. 1868-69.	Demarcation. Expenditure. 1869-70.	Demarcation. Average cost per square-mile. 1868-69.	Demarcation. Average cost per square-mile. 1869-70.	Classification. Extent in square-miles. 1868-69.	Classification. Extent in square-miles. 1869-70.	Classification. Expenditure. 1868-69.	Classification. Expenditure. 1869-70.	Classification. Average cost per square-mile. 1868-69.	Classification. Average cost per square-mile. 1869-70.	Total expenditure. 1868-69.	Total expenditure. 1869-70.	Difference of Columns 14 and 15.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.
Godavery ...	...	...	632	...	.....	.....	...	...	3,343	800	.....	.....	3,975	800	— 3,175
Kistna ...	33	29	7,153	5,999	.....	.....	29	27	19,985	13,965	.....	.....	27,143	19,964	— 7,179
Kurnool ...	...	...	2,662	2,161	.....	.....	...	...	5,713	7,291	.....	.....	8,375	9,452	+ 1,077
Cuddapah ...	782	1,042	55,764	53,061	69 4 9	50 1 1	673	906	42,124	45,910	62 11 5	50 7 3	97,888	98,971	+ 1,083
Nellore ...	32	25	729	2,667	.....	.....	1,305	1,268	48,399	50,274	36 14 9	38 15 4	49,128	52,941	+ 3,813
Salem ...	...	...	...	364	.....	.....	...	2	10,514	22,587	.....	.....	10,514	22,951	+ 12,437
Trichinopoly.	...	...	...	...	.....	.....	...	...	7	5,503	.....	7	7	5,503	+ 5,496
Tinnevelly ...	...	...	...	...	.....	.....	...	...	...	50	.....	.....	5,009	2,849	— 2,160
Total ...	847	1,098	71,954	67,051	.....	.....	2,007	2,203	1,30,085	146,380	.....	.....	2,02,030	2,13,431	+ 11,392
Charges not debitable to parties, namely, cost of Settlement Establishment under the Collector of Tinnevelly													25,005	22,155	— 3,840
												Total...	2,28,034	2,35,586	+ 7,552

There is a considerable increase* in the areas demarcated and classified, owing chiefly to greater exertions being made by the local officers. The expenditure proper of the official year is Rs. 2,13,431, or 11,392 Rs. in excess of last year, owing to the organization of a Deputy and his party for the introduction of the settlement in the Salem District. The total expenditure including the sum of Rs. 22,155 not debitable to the Department proper was Rs. 2,35,586 against Rs. 2,28,034 of the previous year, resulting in a net increase of Rs. 7,552 during the period under report.

* Increase in Demarcation, 249 square-miles.
Do. in Classification, 194 do.

14. I now proceed to remark on the work accomplished, and the expenditure incurred in the several districts.

15. *Godavery.*—The sum of Rs. 800 entered against this district is the expenditure incurred for printing the Godavery papers and binding Settlement Registers. There is a decrease of Rs. 3,175 for the official year 1869-70 compared with the expenditure of the previous period, which is sufficiently accounted for by the total breaking up of the party and by the completion of the register work.

16. *Kistna.*—The small party kept under the Uncovenanted Assistant, Lukshmikanta Row, upon this district was chiefly employed in writing diglot Settlement Registers for the Masulipatam Division as well as those for the Guntoor Division, as far as they can be prepared in anticipation of the settlement. They were also engaged in the preparation of Sub-division Puttah books; checking Sub-division measurements as well as in calculating and comparing areas for newly demarcated fields. The number of Settlement Registers for the Masulipatam Division written during the year under review was 68, making the number received in the Central Office 407, leaving only 18 to complete this portion of the district. One hundred and sixty-six Village Registers were also partially written for Guntoor, and there remained but 19 to finish up this division also. In the Printing Department, 89 Registers of the Masulipatam Division were struck off; this was less than last year, owing to this portion of the district drawing to completion. Binding is now going on, so that the Masulipatam Registers can be forwarded to the local officers.

17. In the field 29 square-miles of demarcation and 27 square-miles of classification were performed, besides which 40 square-miles were measured by a small establishment entertained for the purpose. The examination of the lankahs referred to in paragraph 23 of my predecessor's report was continued and brought to a close. The result has been that 214 lankahs are considered to be on a sufficiently high level to admit of the extension to them of the new settlement operations. They are, therefore, being demarcated and classified. For the demarcation, stone marks have been made use of, and those fixed in the lankah lands are 2½ feet long 10 inches broad and 6 inches thick. The total number of marks erected was 9,664. The expenditure in this district for the period under report is Rs. 19,964, or Rs. 7,179 less than that of last year. This decrease is attributable to reductions in the extra establishment under the Uncovenanted Assistant, and also to a smaller outlay in printing, owing to there being fewer Registers remaining to be struck off.

18. *Kurnool and Cuddapah.*—The Deputy-Director Mr. Cox still has charge of these two districts, and has two field parties working under him; one superintended by Captain Stuart, and the other by Mr. Mayer. During Mr. Cox's absence on three months' leave Captain Stuart assumed charge of the Deputy-Director's duties.

19. Field operations were mainly carried on in Cuddapah, little being done in Kurnool where our demarcation and classification work is nearly out of hand. The classification and demarcation of the Voilpad and Royachoty Taluqs were completed, and a commencement made in Maddenpully. The outturn for the year was 1,042 square-miles of demarcation and 906 square-miles of classification. Compared with the year 1868-69 there is an increase in both branches of 260 and 230 square-miles respectively. A short recess was allowed to this party, but as the state of the work did not admit of this cessation from actual out-door operations, and as the taluq of Muddenpully was comparatively cool and healthy for working in, it was deemed desirable to curtail the recess, and send the employés again out into the field, only those suffering from the effects of illness being retained in office.

20. Many of the impediments alluded to by Mr. Master in paragraphs 26 and 27 of his last year's Report still continue seriously to diminish the outturn of work, though happily in a somewhat diminished degree. Sickness and vacancies neutralized and rendered null and void no less than 8,242 working days, or nearly a fourth of the collective number of working days of the entire party throughout the year. Still this was less than during the preceding twelve months. Six of the employés in the field died, many were rendered unfit for work, and others went away, sooner than remain in such feverish localities. These facts naturally deterred persons from taking up the vacancies which thus remained unfilled. Several volunteers and others have since been deputed from Mr. Goodrich's party in Salem, and it is hoped they may be found to answer in this new scene of labour. No doubt this relentless prevalence of sickness dispirited the party, and for a time progress was but slow; latterly, however, matters have improved, and Mr. Cox speaks much more encouragingly, whilst the monthly reports show better health and better work. Another cause of hindrance as represented by the local officers is the inefficiency and inattention of the Curnums who are not equal to those of other districts with which we have had to deal.

21. The total number of marks put down during the year is shown in the accompanying Statement :—

Boundary pillars	204
Secondary do.	4,018
Khandum marks	30,102
Other do.	7,207
Field do.	6,81,907
Total...	6,93,438

The material used has been stone throughout, and Mr. Cox, when writing upon this subject, says: "Five blocks of granite have been universally employed; they are "all very firmly embedded in the ground and altogether the demarcation is of a "very neat and substantial nature." What I saw of the work in Cuddapah bears out Mr. Cox's description, and next week I shall have another opportunity of seeing the demarcation now in progress.

22. Attention was as usual paid to making experiments in the outturn of produce, and 1,516 experiments of this nature were made as regards the staple crops; in fact, a small party was detailed for this special work. The records of the Cumbum Taluq were handed over to the Survey, and subsequently a portion of Royachoty; there is, moreover, ample work now in this district prepared for the Survey officers.

23. As regards Survey areas received the whole for Jummalamadugu have now been furnished, the remaining three villages having been forwarded, whilst only three remain to be supplied for Koilguntla. The measurements of the interstitial fields were carried out by the Survey in connection with this department in the taluqs of Ramalkota, Nandikotkur, and Sirwell, and comprised 11,415 acres in 78 villages. The cost of this scattered and isolated work comes very heavy and reaches 116 Rs. per square-mile. The whole matter of these interstitial field measurements is now before the Board of Revenue.

24. Mr. Cox furnished to the Central Office Settlement Registers for 93 villages in Kurnool proper, and has written up the remaining 146; but the latter require to be retained until the receipt of interstitial field measurements enables them to be finally closed. In the Central Office the Registers of 59 villages were prepared for the press, and the required number of copies duly struck off.

25. The total expenditure of this party, including the proportionate share of the Central Office charges, was Rs. 98,971, or Rs. 1,033 over that of the previous year, owing to filling up vacancies and larger outlay on the boundary pillars; but although the total charges were slightly more, the cost of work per square-mile was considerably less.

26. *Nellore.*—The Settlement Party in this district worked under Mr. Rundall the Deputy-Director, and made, as in the previous year, very satisfactory progress. At the commencement of the year the Udayagiri Taluq was almost finished, and the Classifiers were mainly engaged in Kandukur; but by the end of August most of them had finished work there, and passed on to Kanigiri, which they completed towards the middle of November, subsequently entering upon Ongole, which not only occupied them during the rest of the year, but which is still in progress. The area classified was 1,268 square-miles against 1,305 last year. This falling off was owing mainly to a brief recess being allowed to some of the Classifiers who had finished their villages in Kanigiri, just previous to the commencement of the north-east monsoon, during which season Mr. Master did not wish them to enter upon the heavy regar soils of that taluq, which are then well nigh impassable. The cost of classification was Rs. 50,274, or Rs. 39 per square-mile, which is in excess of last year's outlay by 2 Rs. per square-mile; however, the short recess noted above, during which office and no field-work was carried on by some of the hands, accounts for this slight enhancement.

27. The Nellore Classifiers and Gumastas also demarcated and measured 25 square-miles, or 16,000 acres of unsurveyed lands actually taken up, or about to be taken up for cultivation. These tracts were not, at the time of the original demarcation, deemed likely to be hereafter cultivated, but as waste became scarce, these lands have come into request, and Mr. Rundall has measured and demarcated

them in communication with the Collector, although it can hardly be said to be the legitimate work of our department.

28. The health of the Nellore employés presents a striking contrast to that of Cuddapah, as only 230 days were lost by sickness, which is not more than 2½ per cent. of the collective days of the whole party. This was even less than last year, although the Kanigiri Taluq in which they were engaged during part of the season under review, has a proverbially bad name for fever. The outturn of work reached 137 acres per man per diem against 128 acres during the previous year. This satisfactory result was likewise obtained with scarcely any recourse being had to fining under Boundary Act or general authority; the total amount of the penalties inflicted during the year being only Rs. 16.

29. The preparation of the Settlement Report now going on in Nellore necessarily involves much office-work and the collection of much detailed information. This and the writing up of the final Classification Abstracts kept the office-hands fully employed. Examinations of the outturn of crops being harvested were made in 535 instances, of which 27 were in paddy; and the Survey areas of 129 villages were received, aggregating 883 square-miles.

30. There is an increase in the outlay of Rs. 3,813 when compared with that of the previous year, owing to the establishment being augmented both in the field and in the office, as the district became ripe for the submission of the settlement proposals. Charges for mounting Maps and Printing were also incurred this year, although not in the year preceding.

31. *Salem.*—Instructions for the settlement of the Salem District were received in September 1869. Mr. Goodrich was appointed as Deputy-Director on the 22nd October following, and commenced at once in the Ahtoor Taluq, but it was not until the middle of November that the scattered hands could be collected from Tinnevelly and Trichinopoly, and field-work be actually commenced by Mr. Goodrich. It was then found that more had to be undertaken than was anticipated; thus the classification had to be extensively revised; puttah holdings had to be measured and recorded and uncultivable waste deducted. The preparation of the rough and fair puttahs then commenced, and at the close of the year Ahtoor was in a forward state for final settlement. It may be remembered that Mr. Puckle stated the classification would need revision and re-inspection; and experience shows that his views were correct. Much of the original demarcation, it is to be observed, has been effaced by the action of time, and it is in contemplation to arrange for the re-demarcation of the province in the more permanent method now adopted in other districts.

32. The area actually gone over and inspected was 190,446 acres, or 298 square-miles in 136 villages. Rough puttahs were issued to some villages, and those of many others were in course of preparation. The examination of interstitial fields was found necessary in 18,022 Survey numbers, in which nearly 50,000 sub-divisions or Puttah holdings had to be separately measured, and their areas separately recorded. The expenditure of the party for the period under report is Rs. 22,951, showing an increase of Rs. 12,437 in comparison with the previous year, in which the expenditure as explained was limited to a few hands, who were engaged in routine office-work, pending orders for settlement.

33. *Trichinopoly.*—In accordance with the Orders of Government, dated 17th March 1869, No. 717, a large portion of the Salem establishment was sent to Trichinopoly, to aid the Collector in examining into the frauds then prevalent as regards concealed cultivation, waste improperly deducted, and water-rate not charged. The examinations in which these Salem Classifiers played an important part, resulted in the discovery of frauds and concealments to the amount of Rs. 1,61,531. Mr. Master characterises this as "eminently satisfactory," and no doubt a considerable portion of the sum thus derived will be annually realized from the permanent sources which have now been brought to light.

34. *Tinnevelly.*—The expenditure set opposite this district consists of the pay of the establishment employed under the orders of the Collector, and the Survey Department in correcting and revising demarcation. The expenditure is less than in the previous year owing to the services of the Salem servants being transferred to their legitimate duties in their own district.

35. The following Statement compares the expenditure of the official year 1869-70 with that of 1868-69. The total sanctioned amount for the period under report was Rs. 3,20,600, and the actual expenditure Rs. 2,35,586, or a net decrease of Rs. 85,014. The causes of the short expenditure, compared with the Budget provision, were the slower progress made by the contractors in printing the Settlement Registers owing to an arrangement rendered necessary by the approaching completion of the work in the Kistna District, the delay in printing the Kurnool Registers, owing to want of interstitial areas of fields, the receipt of orders for the settlement of the Salem District at a later period than was anticipated, the moderate requirements of the Collector of Tinnevelly for his Settlement Establishments, and finally, savings effected in other items both in the Central Office and Field Parties.

Districts.	Sanctioned amount for the year 1869-70.	Actual expenditure in 1869-70.	Increase.	Decrease.	Remarks.
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	
1. Godavery ... ... Kistna	40,600	15,732	.....	24,868	
2. Salem ... ... Trichinopoly ... ... Tinnevelly	52,000	25,639	.....	26,361	
3. Kurnool ... ... Cuddapah	98,500	82,341	.....	16,159	
4. Nellore	37,500	40,118	* 2,618	.....	* This increase has been met from savings in other Parties, *Vide* G. O., dated 11th Dec. 1868, No. 3,086; and 17th July 1869, No. 2,073.
Central Office	54,000	49,601	.....	4,399	
Total...	2,82,600	2,13,431	2,618	71,787	
Tinnevelly Settlement Establishment	38,000	22,153	.....	15,845	
Grand Total...	3,20,600	2,35,586	2,618	87,082	

36. *Erection of Boundary Pillars.*—The following is an abstract of Statemen B., showing the number of Boundary marks constructed during the official year 1869-70:—

Items.	1868-69.	1869-70.
Village Boundaries.		
Villages	314	160
Khandums or Sub-Divisions	2,107	1,286
Tri-junction Pillars	243	204
Secondary do.	6,591	4,018
Other marks on Village Boundaries	10,388	7,210
Marks on Khandums	48,494	30,307
Field Boundaries.		
Number of Villages	483	390
Villages divided into Khandums. {Number of Villages ..	261	157
{do. of Khandums ...	2,444	1,530
Number of fields marked out	1,70,560	1,06,612
Do. of field marks put down	9,39,829	6,94,884

37. The following two Statements show, 1st, the number of villages and the demarcated area made over to the Survey during the year; and, 2nd, the villages for which areas were received *from* the Survey by this department.

District.	Number of villages.	Extent in square-miles.
Cuddapah	86	425
	86	425

Districts.	Number of villages.	Extent in square-miles.
Kurnool	5	101
Cuddapah	3	9
Nellore	129	883
	137	993

Although Mr. Cox only handed over the Cumbum Taluq to the Survey the requisite records of the Voilpad and Royachoty Taluqs, aggregating 1,047 square-miles, are ready for delivery when required by the Survey Department.

38. My tenure of the Director's office having been only of a few weeks duration, the usual remarks made by the head of the department regarding the services of the chief officers cannot on this occasion be recorded. I must, however, notice that Mr. Cox the Deputy-Director of Cuddapah speaks of the cheerful and ready aid rendered by Captain Stuart and Mr. Mayer, and also records his high opinion of Y. Seshara Row, the Native Uncovenanted Assistant. Messrs. Goodrich and Rundall likewise write very favourably of the manner in which the Native officers have severally conducted their duties.

39. From the short experience I have had of the department it appears to me that four causes have tended to retard work and to make the outturn less than it might have been.

1st.—The constant dread and occasional actual orders for abolition, which naturally tend to cause a somewhat perfunctory performance of duties.

2nd.—The orders lately issued by the Bengal Government of India, that service in this department shall not count towards pension, except under certain circumstances. This Notification is not only opposed to the more liberal ruling of the Madras Government under which the employés entered the department, but dispirits them and naturally leads them to seek situations in other branches of the service where the work is lighter and the pension a certainty.

3rd.—The measurement of the interstitial fields which takes up much time, and was not originally contemplated when the Settlement parties were first organized.

4th.—Our having to retrace our steps and demarcate, measure, and classify lands excluded from survey and since brought under cultivation. This necessitates our going over the same ground again at an expense of time and money never originally taken into account. The result, moreover, shows but to little advantage in our annual outturn, owing to the scattered and isolated portions of land to be dealt with; thus preventing supervision and necessitating much travelling on the part of the subordinates detailed for these duties.

40. As regards the first of these impediments it may be said that as far as the Central Office is concerned the dread of abolition has ceased to exist, and with reference to the retention of the field parties, I have lately brought the matter to the notice of Government in my letters of the 19th* May 1870, No. 719, and of 13th July 1870, No. 996.

* Forwarded to Government with Board's Proceedings dated 28th June 1870.

41. Colonel Priestley has written to me regarding the alteration in the Pension arrangements, the second of the disadvantages I touched upon, as the Survey are equal sufferers with us in this matter. I have now ascertained what was necessary from the Accountant-General's Department, and propose shortly addressing Government on this subject.

42. Concerning the third and fourth hindrances they have both been lately again under consideration; the former is now before the Board, and the latest orders passed by Government regarding the latter subject are those this day received, and dated 14th July 1870, No. 1,083.

43. The Director visited Salem twice, and Cuddapah thrice during the year, thus spending altogether 25 days on circuit.

ENCLOSURE No. 1.

APPENDIX A.

STATEMENT showing the extent of Demarcation and Classification work performed by the Settlement parties and the expenditure incurred thereon for the official year 1869-70 of the Kistna District.

Items.	Taluqs.	Number of villages completed.	Number of villages in progress.	Actual 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.
1	2	3	4	5	6	7	8	9	10	11	12
						RS.	RS.	RS.	RS.	RS.	R. A. P.
Demarcation.	Bandar... ...	...	...	...	...	185	...	195	122	502	.....
	Bezwada ...	...	...	...	...	54	...	57	35	146	.....
	Gudivada ...	...	...	...	...	75	...	79	50	204	.....
	Nandigam ...	...	...	...	...	23	...	24	15	62	.....
	Narsaraopet ...	...	...	...	1	123	...	129	80	332	.....
	Bapatla ...	...	...	...	3	43	...	45	28	116	.....
	Sattinapalli ...	...	...	...	12	624	...	656	410	1,690	.....
	Vinukonda ...	...	...	...	8	534	...	561	350	1,445	.....
	Palnad ...	...	...	...	5	262	...	275	172	709	.....
	Guntoor ...	...	...	...	...	157	...	165	103	425	.....
	Repalli ...	...	...	...	...	136	...	143	89	368	.....
	Total...	...	...	...	29	2,216	...	2,329	1,454	5,999	207 14 4
Classification.	Bandar... ...	...	...	...	...	46	141	196	122	505	.....
	Bezwada ...	...	...	...	...	45	18	66	41	170	.....
	Gudivada ...	...	...	...	...	...	80	84	52	216	.....
	Nandigam ...	...	...	...	...	30	...	32	19	81	.....
	Narsaraopet ...	...	...	...	1	34	296	347	216	893	.....
	Bapatla ...	...	...	...	3	58	230	303	189	780	.....
	Sattinapalli ...	...	...	...	10	228	374	632	398	1,632	.....
	Vinukonda ...	...	...	...	8	268	294	591	367	1,520	.....
	Palnad ...	...	...	...	5	160	775	982	612	2,529	.....
	Guntoor ...	...	...	...	...	55	278	350	218	901	.....
	Repalli ...	...	...	...	...	63	476	566	357	1,462	.....
	Total...	...	...	...	27	987	2,962	4,149	2,591	10,689	.....
	Cost of printing Settlement Registers and mounting Maps. ...	...	...	...	...	2,482	.....	794		3,276	.....
	Total...	...	...	...	27	987	5,444	4,149	3,385	13,965	.....
	Grand Total...	...	...	...	...	3,203	5,444	6,478	4,829	19,964	.....

As the Uncovenanted Assistant was mainly engaged in the preparation of the Settlement Registers both for the Masulipatam and Guntoor Divisions, and as the demarcation and classification were merely as it were, incidental tasks owing to his presence in the district pending final settlement, the rate per square-miles is necessarily high. The work of demarcating was also scattered over distant and isolated localities.

MADRAS,
21*st July* 1870.

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

APPENDIX A.—(Continued.)

STATEMENT showing the extent of Demarcation and Classification work performed by the Settlement parties and the expenditure incurred thereon for the official year 1869-70 of the Kurnool District.

Items.	Taluqs.	Number of villages completed	Number of villages in progress.	Ayacut 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.
1	2	3	4	5	6	7	8	9	10	11	12
						RS.	RS.	RS.	RS.	RS.	RS. A. P.
Demarcation.	Ramulkota ...	...	...	...	...	179	...	182	116	477	.....
	Nandikotkur ...	...	...	...	...	61	...	62	39	162	.....
	Nandial ...	...	...	...	...	43	...	44	28	115	.....
	Sirwell ...	...	...	...	...	12	...	12	8	32	.....
	Pattikondah ...	...	...	...	...	128	...	130	82	340	.....
	Markapur ...	...	...	...	...	142	...	145	92	379	.....
	Cumbum ...	...	...	...	...	47	...	48	30	125	.....
	Koilguntla ..	...	...	...	...	199	...	203	129	531	.....
	Total...	...	...	...	...	811	...	826	524	2,161	.....
Classification.	Ramulkota ...	...	...	...	...	703	717	454	1,874	.....	
	Nandikotkur ...	...	...	...	...	340	347	219	906	.....	
	Nandial ...	...	...	...	...	513	523	331	1,367	.....	
	Sirwell ...	...	...	...	...	425	433	275	1,133	.....	
	Pattikondah ...	...	...	...	...	9	...	9	6	24	.....
	Cumbum ...	...	...	...	...	38	...	39	25	102	.....
	Koilguntla ...	...	...	...	...	172	...	175	111	458	.....
	Total...	...	...	...	...	219	1,981	2,243	1,421	5,864	.....
	Cost of printing Settlement Registers ...	...	...	..	...	...	1,081	...	316	1,427	.....
	Total ...	...	...	...	...	219	3,062	2,243	1,737	7,291	.....
	Grand Total...	...	...	...	...	1,030	3,062	3,069	2,291	9,452	.....

MADRAS,
21*st July* 1870.

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

APPENDIX A.—(Continued.)

STATEMENT showing the extent of Demarcation and Classification work performed by the Settlement Parties and the expenditure incurred thereon for the official year 1869-70 in Cuddapah District.

Items.	Taluqs.	Number of villages completed.	Number of villages in progress.	Ayacut 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.
1	2	3	4	5	6	7	8	9	10	11	12
						RS.	RS.	RS.	RS.	RS.	RS. A. P.
Demarcation.	Jammalamadugu..	...	...	...	...	112	...	114	72	298	.....
	Poddatur ...	...	...	...	...	91	...	93	59	243	.....
	Cuddapah ...	...	...	...	...	301	...	307	194	802	.....
	Sidhout ...	...	...	...	...	52	...	53	34	139	.....
	Budwail...	...	...	...	...	342	...	349	221	912	.....
	Pullumpett ...	...	...	...	...	141	...	144	91	376	.....
	Voilpad ...	70	5	429	420	8,941	...	9,114	5,780	23,835	.....
	Royachoty ...	55	...	401	401	9,060	...	9,235	5,854	24,149	.....
	Muddenpully ...	...	20	212	16	556	...	566	357	1,479	.....
	Total...	125	25	1,042	837	19,596	...	19,975	12,662	52,233	50 1 1
	Cost of Boundary Pillars... ...	...	...	...	...	828	...	...	...	828	.....
	Total...	125	25	1,042	837	2,0424	...	19,975	12,662	53,061	.....
Classification.	Jammalamadugu..	...	...	...	...	276	...	281	176	733	.....
	Poddatur ...	...	...	...	...	125	...	127	81	333	.....
	Cuddapah ...	...	...	...	...	126	...	128	81	335	.....
	Sidhout ...	...	...	...	...	9	...	9	6	24	.....
	Budwail...	...	...	...	...	16	...	16	10	42	.....
	Pullumpett ...	...	...	...	...	26	...	27	17	70	.....
	Voilpad...	70	5	408	395	7,976	...	8,131	5,156	21,263	.....
	Royachoty ...	55	...	381	381	8,343	...	8,504	5,391	22,238	.....
	Muddenpully ...	...	13	117	6	159	...	162	102	428	.....
	Kadri	...	...	...	...	93	...	95	60	248	.....
	Pullvendla ...	...	...	...	...	1	...	1	1	3	.....
	Total...	125	18	906	782	17,150	...	17,481	11,081	45,712	50 7 2
	Cost of mounting Maps	...	...	...	...	...	150	...	48	198	.....
	Total...	125	18	906	782	17,150	150	17,481	11,129	45,910	.....
	Grand Total...	...	...	...	..	37,574	150	37,456	23,791	98,971	.....

MADRAS,
21st *July* 1870.

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

APPENDIX A.—(Continued.)

STATEMENT showing the extent of Demarcation and Classification work performed by the Settlement Parties and the expenditure incurred thereon for the official year 1869-70 of the Nellore District.

Items.	Taluqs.	Number of villages completed.	Number of villages in progress.	Ayacut 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.
1	2	3	4	5	6	7	8	9	10	11	12
						RS.	RS.	RS.	RS.	RS.	RS. A. P.
Demarcation.	Gudur ...	...	..	3	3	196	...	196	123	515	.....
	Atmakur ...	...	...	...	...	5	...	5	3	13	.....
	Nellore ...	...	...	1	1	67	...	67	44	178	.....
	Rapur ...	...	...	...	...	65	...	65	42	172	.....
	Kavali ...	...	..	2	2	69	...	69	44	182	.....
	Udayagiri ...	...	...	1	1	31	...	31	20	82	.....
	Kandukur ...	...	...	9	9	278	...	279	178	735	.....
	Kanigiri ...	...	...	6	6	213	...	214	137	564	.....
	Ongole ..	...	...	3	3	71	...	71	46	188	.....
	Total...	...	...	25	25	995	...	997	637	2,629	105 2 7
	Cost of Boundary Pillars...	...	...	...	...	38	...	...	...	38	.....
	Total...	...	...	25	25	1,033	...	997	637	2,667	.....
Classification.	Gudur ...	...	...	...	...	795	139	936	598	2,468	.....
	Atmakur ...	...	...	...	...	369	197	567	362	1,495	.....
	Nellore ...	...	...	...	...	453	619	1,074	685	2,831	.....
	Rapur ...	...	...	...	...	407	168	577	368	1,520	.....
	Kavali ...	...	...	...	...	446	369	817	522	2,154	.....
	Udayagiri ...	2	...	13	13	508	316	826	527	2,177	.....
	Kandukur ...	75	...	408	408	5,669	188	5,872	3,753	15,482	.....
	Kanigiri ...	34	...	306	306	3,756	80	3,845	2,459	10,140	.....
	Ongole ...	75	17	541	444	4,160	50	4,221	2,700	11,131	.....
	Total...	186	17	1,268	1,171	16,563	2,126	18,735	11,974	49,398	38 15 4
	Cost of Mounting Maps and Printing charges	...	...	...	...	...	664	...	212	876	.....
	Total...	186	17	1,268	1,171	16,563	2,790	18,735	12,186	50,274	.....
	Grand Total...	...	...	...	...	17,596	2,790	19,732	12,823	52,941	.....

MADRAS,
21st *July* 1870.

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

E

APPENDIX A.—(Continued.)

Statement showing the extent of Demarcation and Classification work performed by the Settlement Parties and the expenditure incurred thereon for 1869-70.

Items.	Districts and Taluqs.	Number of villages completed.	Number of villages in progress.	Actual 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.
1	2	3	4	5	6	7	8	9	10	11	12
				S. M.	S. M.	RS.	RS.	RS.	RS.	RS.	RS. A. P.
Assessment.	*Godavery.*										
	Binding Settlement Registers and Printing charges ...	...	...	...	...	...	607	...	193	800	.....
	Salem.										
Demarcation and Classification.	Salem... ... } Do. ... ... }	3	...	2	2	210	...	342	177	729	.....
Assessment.	Ahtoor	...	...	...	...	...	6,305	10,281	5,305	21,891	.....
	Printing charges, etc. ...	...	...	...	...	...	251	...	80	331	.....
	Total...	3	...	2	2	210	6,556	10,623	5,562	22,951	.....
	Trichinopoly...	...	...	...	...	...	...	...	...	...	.....
	Office-work ...	...	...	...	...	...	5,130	...	...	5,130	.....
	Printing charges	...	...	...	...	...	283	...	90	373	.....
	Total...	...	...	...	...	...	5,413	...	90	5,503	.....
	Tinnevelly ...	...	...	...	...	2,799	...	...	...	2,799	.....
	Mounting Maps	...	...	...	...	...	38	...	12	50	.....
	Total...	...	...	...	...	2,799	38	...	12	2,849	.....

MADRAS,
21*st July* 1870.

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

Proceedings of the Madras Government, Revenue Department,
8th March 1871.

ABSTRACTS OF APPENDIX A.

Districts.	Total Expenditure. 1868-69.	1869-70.
	RS.	RS.
Central Office...	49,817	49,601
Godavery	2,965	607
Kistna	20,226	15,125
Kurnool	6,241	7,161
Cuddapah	73,333	75,180
Nellore...	36,608	40,118
Salem	7,835	17,389
Trichinopoly...	5	5,413
Tinnevelly	5,009	2,837
Total...	2,02,039	2,13,431
Add charges not debitable to Parties	25,995	22,155
Grand Total...	2,28,034	2,35,586

MADRAS,
21*st July* 1870.

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

APPENDIX B.

Comparative Statement showing the number and description of Boundary Marks put up by the several Settlement Parties for the year 1868-69 and 1869-70.

Items.	Cuddapah.		Kistna.		Nellore.		Total.		Difference between columns 8 and 9.
	1868-69.	1869-70.	1868-69.	1869-70.	1868-69.	1869-70.	1868-69.	1869-70.	
1	2	3	4	5	6	7	8	9	10
Village Boundaries.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Villages	314	160	.....	.....	.....	.....	314	160	154
Khandums or sub-divisions	2,407	1,286	.....	.....	.....	.....	2,407	1,286	1,121
Tri-junction pillars...	243	204	.....	.....	.....	.....	243	204	39
Secondary pillars	6,591	4,018	.....	.....	.....	.....	6,591	4,018	1,573
Other marks on Village Boundaries ...	10,355	7,207	33	3	.....	.....	10,388	7,210	3,178
Marks on Khandums	47,992	30,102	329	146	173	59	48,494	30,307	18,187
Field Boundaries.									
Number of Villages	242	155	171	112	70	123	483	390	93
Villages divided into Number of Villages ...	242	155	13	.....	6	2	261	157	104
Khandums. Number of Khandums ...	2,394	1,509	35	18	15	3	2,444	1,530	914
Number of Fields marked out	1,65,035	1,02,251	3,670	2,569	1,855	1,792	1,70,560	1,06,612	63,948
Number of Field marks put down... ...	9,24,514	6,81,907	11,422	9,515	3,893	3,462	9,39,829	6,94,884	2,44,945

(Signed) G. BANBURY,
Acting Director of Revenue Settlement.

MADRAS,
21st July 1870.

From the Superintendent of Revenue Survey, to the Acting Secretary to the Board of Revenue, dated Chepauk, 28th July 1870, No. 1,899-64.

In the absence of the Acting Director of Revenue Settlement from Madras, I have the honour to forward, for submission to Government, the Annual Report of Survey and Demarcation operations for the year ending 31st March 1870.

Enclosure No. 1.

Report on the Revenue Survey and Demarcation of the Madras Presidency for the year 1869-70.

No. 1. *Revenue Survey, Coimbatore.*—The Party has been under the charge of Major Hessey, and employed in the following taluqs :—

(1). Coimbatore, in correcting Maps consequent on revision of the original faulty demarcation.

(2). Sattimungalum, in inserting details.

(3). Perunthoray, in completing the testing of Ameen's measurement in the field.

(4). Bowany, in finishing Boundary Survey and Ameen's measurement. Towards the close of the year, a few Boundary Surveyors and Ameens were sent to work in the Darapuram Taluq.

2. The progress of the survey is given below :—

	Sq. Miles.		Sq. Miles.
(1). Boundary surveyed	184·37	(5). Area ready for Settlement ...	2,951·19
(2). Fields measured...	167·70	(6). Maps sent to Central Office ...	No. 185·55
(3). Do. plotting completed ...	247·67	(7). Do. to Taluq do. ... ,,	None.
(4). Details inserted	638·98	(8). Minor Circuits No. 1,416, traversed.	

3. In addition to the above regular work the Party has performed the following :—

		Sq. Miles.
(1)	Demarcation renewed and details examined	22·20
(2).	Old field and other stones firmly fixed	No. 3,084
(3).	New do. placed	,, 19,910
(4).	Re-testing in field	Sq. M. 209·70
(5).	Re-surveyed	,, 33·07
(6).	Details corrected in field	,, 43·39
(7).	Minor circuits surveyed	No. 56

4. The whole of the Bowany Taluq has been nearly plane tabled on the four inch scale. This work was undertaken both in order to train Surveyors for work in Zemindari tracts and to provide Maps for the Irrigation Department at an early date.

5. The Sattimungalum Taluq is nearly completed, the Maps merely require finishing in Office.

6. The Revenue Survey work in this district has not been connected with Great Trigonometrical Survey points. A Party of the Great Trigonometrical Survey is at present working in the district. It is desirable that when their points are known, fresh connections should be made.

7. No person has been fined during the year under Act XXVIII. of 1860.

8. The season has been favourable, except in the Bowany and Sattimungalum Taluqs where there has been a good deal of fever.

9. The conduct of subordinates has with a few trifling exceptions been very good.

10. The expenditure has been Rs. 90,147-14-10.

11. The Party was inspected by the Superintendent in July 1869.

12. *No.* 2. *Revenue Survey Kurnool.*—Work was carried on as below, at first under the orders of Mr. Cardozo, and after his departure on sick leave under Captain Cloeté.

(1.) In the Markapur Taluq, boundary survey and field measurement.

(2.) In the Patticonda Taluq, minor circuit survey and testing.

(3). In the Koilkuntla Taluq, detailing.

(4). In the Ramalkota, Nandikotkur, Nandial, and Sirwell Taluqs, measurement of intermediate fields division into two acre blocks for irrigation and adjustment of demarcation discrepancies.

13. The outturn of work during the year is appended.

	Sq. Miles.		Sq. Miles.
(1). Boundaries surveyed	168·17	(5). Area ready for Settlement ...	512·86
(2). Fields measured	324·79	(6). Maps sent to Central Office ...	None.
(3). Do. plotting completed ...	211·07	(7). Do. to Taluq do. ...	do.
(4). Details inserted	497·99	(8). Minor Circuit No. 1,179 traversed.	

14. The work has been connected with two Great Trigonometrical points. The average error is 7·49 feet per mile.

15. During the year fines to the amount of Rs. 40 have been inflicted under the Boundary Act. Captain Cloeté reports that the officers of the Survey are placed in an unsatisfactory position under the recent interpretation of the Act in Government Order, No. 209, of 23rd January 1869.

16. The season has, on the whole, been a particularly healthy one. With the exception of some fever in the Koilkuntla Taluq there has been little sickness in the field.

17. The conduct of the subordinates has, with a few exceptions, been unsatisfactory. No less than 63 Field and 52 Office men have either been dismissed, resigned, or died. Calls for assistance were responded to by Major Hessey and Mr. Beaumont.

18. Mr. Merriman who was promoted to the grade of Acting Second Assistant Superintendent in June 1869 has been attached to the Party throughout the year. During the last two months he was placed in charge of the work beyond the Nallamalais.

19. The cost has been (inclusive of Rs. 1,857-4-7 debitable to the Settlement Department) Rs. 60,928-12-9.

20. In November 1869, the Party was inspected by the Superintendent.

21. No. 3. *Revenue Survey, Cuddapah.*—At the beginning of the year, Mr. Beaumont was in charge of the Party. On his proceeding to Madras it was placed under the orders of Mr. Gompertz, till Captain Clay assumed charge. Mr. Tomlinson has also been in temporary charge of the Party.

22. In paragraph 25 of the Report for 1868-69 it was stated that Boundary Survey and Ameen's measurement were in progress in the Budwail Taluq. This Taluq has been completed (three Agraharam villages excepted), and the men removed to the Pullampett Taluq. A small detachment from No. 5 Party was also employed in the taluq under the superintendence of Mr. Wright.

23. The progress of the work during the year has been as follows :—

	Sq. Miles		Sq. Miles.
(1). Boundaries surveyed	473·18	(5). Area ready for settlement ...	1,0·32
(2). Fields measured	230·48	(6). Maps sent to Central Office ...	None.
(3). Do. plotting completed ...	99·63	(7). Do. to Taluq do. ...	do.
(4). Details inserted	420·46	(8). Minor Circuits No. 2,216 traversed.	

24. The outturn is not as satisfactory as could be expected, owing to several qualified persons having left the Party. The number of taks per acre in the Pullampett Taluq especially is exceptionally large. Captain Clay states that he can hope for no permanent improvement so long as the climate of Cuddapah maintains its present character.

25. The discovery at the time of detailing of numerous patches of cultivation left undemarcated by the Settlement Department in the Jummalamadugu Taluq and the revision of the boundaries of villages by that department in the taluqs named in the margin have prevented the completion of any taluq in the district, and interfered materially with the office-work.

Jummalamadugu.
Poddatoor.

26. Two Trigonometrical stations have been identified and connected with the work of the Revenue Survey Department. Extracts from traverses have been received for examination in the Central Office.

27. Fines to the extent of Rs. 146 have been inflicted during the year under Act XXVIII. of 1860.

28. The season, especially in the town of Cuddapah, has been more trying than in any previous year. The average daily number of sick during 1869-70 is 16 per cent. of the average daily attendance, and exceeds that in 1868-69 by 5 per-cent. In one month the per-centage rose to 24. The progress of office-work has unavoidably been greatly retarded.

29. The conduct of office subordinates has on the whole been satisfactory.

30. The expenditure has been Rs. 70,237-12-4.

31. *No.* 4, *Revenue Survey, Tinnevelly.* Under the orders of Mr. F. Puckle, assisted by Lieutenant Franklyne and Mr. Baber, survey operations have been carried on in all taluqs of the district except Sattur, the only one remaining to be taken up.

32. During the year Senkaraninarcovil Taluq has been entirely surveyed and the Streevilliputtur Taluq is under Survey.

33. Appended is given the progress made during the year :—

	Sq. Miles.		Sq. Miles.
(1). Boundaries surveyed ...	648·58	(5). Area ready for settlement ...	1,472·86
(2). Fields measured	353·73	(6). Maps sent to Central Office...	337·95
(3). Do. plotting completed ..	265·96	(7). Do. Taluq do. ...	None.
(4). Details inserted	368·88	(8). Minor circuits No. 1,123, traversed.	

34. In addition to the above all Zemindari and Inam lands in the southern taluqs have been surveyed and mapped, except 11 villages of Chokempatty.

35. Compared with last year's work the outturn is small. This is attributable to the reduction of establishment for want of funds and the disastrous floods of November 1869.

36. The Tenkasy Taluq Map is completed, those of Ambasamudram and Tenkari are approaching completion ; owing to alterations in the taluq boundary and the dispute on the frontier of Travancore, the Maps of the Tinnevelly and Nunganery Taluqs have not been closed.

37. Only one line has been completed by traverse during the year for comparison with the Great Trigonometrical Survey. It is undesirable at present to continue the work of comparison, as what has already been done in this way will necessarily require revision when the particulars of the stations, now being identified or re-selected by the Great Trigonometrical Survey Party, are received.

38. No proceedings have been taken against the villagers under Act XXVIII. of 1860.

39. The season has been less favourable than the preceding one.

40. The conduct of the subordinates has been generally satisfactory.

41. The expenditure during the year is Rs. 74,559-8-7.

42. *No.* 5, *Revenue Survey, Madras.* The main body of the Party has been employed in the Madras District, and detachments from it in the Nellore and Cuddapah Districts. Major Barber was in charge of it to the beginning of June 1869. On his proceeding on furlough, he was relieved by Mr. Beaumont.

43. During the year the boundaries and field survey of the Ponnery Taluq were completed, and in the Trivellore Taluq they are approaching completion.

44. The work performed is appended :—

	Sq. Miles.		Sq. Miles.
(1). Boundaries surveyed ...	2[illegible]·64	(5). Area ready for settlement ...	735·01
(2). Fields measured	124·51	(6). Maps sent to Central Office ...	513·59
(3). Do. plotting completed ..	119·03	(7). Do. Taluq do. ...	342·05
(4). Details inserted	304·73	(8). Minor circuits No. 1,838, traversed.	

45. The Sydapet Taluq Map has been received and lithographed at the Central Office.

46. As there was not sufficient demarcation ready to keep all the field hands employed, a small detachment of Surveyors and Ameens was sent to the Cuddapah District, and Mr. Wright, who

had been temporarily engaged upon Demarcation duties in the Trivellore Taluq, was ordered on special duty to that district, where he remained from July 1869 to the end of the official year. To accelerate the progress of Demarcation, 15 Ameens were transferred to No. 1 Madras Demarcation Party.

47. A portion of the Office-work of No. 3 Party was also performed by the Office of No. 5 Party.

48. The survey has not been connected with any Great Trigonometrical Stations.

49. Fines to the extent of Rs. 38-8-0 have been inflicted under the Boundary Act.

50. The season has been favourable, and little sickness prevailed among the subordinates.

51. The conduct of the subordinates has been on the whole good.

52. The expenditure has been Rs. 44,134-3-0.

53. The Party has been more than once inspected by the Superintendent.

54. *Nellore District.* The detachment under Sub-Assistant Mr. Middleton has been employed in topographically surveying Zemindari tracts in the district.

55. The progress is given below :—

		Square Miles.
	Boundaries surveyed	1,600·82
(2).	Details inserted	458·97
(3).	Maps sent to Central Office ...	No. 3,713·82

56. The expenditure has been Rs. 10,569-5-10.

57. Towards the end of 1869 the detachment was inspected by the Superintendent in the field.

58. No. 6 *Revenue Survey, Ganjam.*—Up to the middle of June 1869 Mr. Gompertz was in charge of the Party, when he was relieved by Mr. Tomlinson.

59. The Chicacole Taluq [illegible]hich detailing and testing have been carried on throughout the year is nearly finished. In [illegible] Itchapore Khandum of the Berhampore Taluq, Boundary Surveyor's work has just been brought to a close, and the men are about to be removed into the Mohiri Khandum of which the first main circuit (36·27 square-miles) has been run.

60. A Statement of the progress of work during the year is shown below :—

		Sq. Miles.			Sq. Miles.
(1).	Boundaries surveyed	84·85	(5).	Area ready for settlement ...	159·95
(2).	Fields measured	72·43	(6).	Maps sent to Central Office No.	83·86
(3).	Do. plotting completed ...	81·28	(7).	Do. Taluq do.	None
(4).	Details inserted	116·28	(8).	Minor circuits No. 596 traversed.	

61. The Chicacole Taluq Map has been plotted, and details have been ins[illegible]rted for the 166 villages detailed.

62. The Surveyors have been unable to identify any Grea[illegible]ometrical Sta.ions in the taluqs under survey.

63. Fines to the amount of Rs. 8 have been inflicted.

64. The season has been on the whole healthy, except during [illegible] two months, when fever prevailed to a great extent, and interfered materially both with O[illegible] field-work.

65. With very few exceptions the conduct of subordinat[illegible] been decidedly bad. Mr. Tomlinson reports that he has succeeded in weeding the party [illegible]et characters, about 63 subordinates of different grades and 77 Peons were discha[illegible] esignation of 19 of the former and 6 of the latter were accepted.

66. The expenditure has be[illegible]n Rs. 29,17[illegible]

67. *Neilgherry Demarcation an[illegible]* [illegible]th settlements marginally named, a detachment of No. 1 Survey Party has been employed at first under the executive charge of Sub-Assistant Mr. Fraser. Lieutenant Clerk relieved by Captain Sargeaunt in the beginning

Ootacamund.
Kotagherry.
Wellington.

who joined the detachment of the last quarter.

68. The demarcation and survey of outlying estates and waste land blocks were also undertaken at the requisition of the Commissioner.

69. A Statement showing the special surveys ordered by the Commissioner and performed by the detachment is appended.

Special surveys ordered...	77
Do. completed	8
Do. in progress	42

70. The progress of the demarcation on the hills is given below :—

(1).	Government reserves demarcated...	62	(5).	Waste Land Rules	33
(2).	Forest Department blocks... ...	9	(6).	Firewood allotments	6
(3).	Quit-rent properties	108	(7).	Roads	25
(4).	Puttah lands	111	(8).	Minor circuits	17

71. During the year 7,734 marks have been erected.

72. No dispute of any consequence has occurred.

73. Out of Rs. 2,345-11-5 advanced (including last year's balance) on account of demarcation Rs. 1,260-1-2 have been recovered, leaving a balance of Rs. 1,085-10-3, bills to the extent of Rs. 1,497-4-6 were sent to the Commissioner for collection during the year.

74. The progress of the survey is as follows :—

		Surveyed.	Plotted.	Detailed.
(1).	Government reserves	80	93	...
(2).	Forest Department blocks	16	19	1
(3).	Quit-rent properties	118	293	15
(4).	Puttah lands	258	760	...
(5).	Town lots...	13	1	...
(6).	Waste Land Rule lots	38	119	34
(7).	Firewood allotments	6	6	...
(8)	Roads	30	28	...

75. Maps of 70 estates waste land blocks, etc., have been forwarded to the Central Office. The Cantonment of Wellington has been completely mapped and topographically detailed on the 24-inch scale.

76. The traverse work of the hills has been connected with six minor points fixed by triangulation from Great Trigonometrical Stations. The average error is 7·64 feet per mile.

77. No fines have been inflicted during the year under Act XXVIII. of 1860.

78. The season has been favourable.

79. There have been a few instances of misconduct among subordinates.

80. The discrepancy between Survey and Revenue areas in the Coonoor Settlement has been 106·10 per cent.

81. The expenditure has been Rs. 35,023-0-5.

82. The work on the hills has been inspected by the Superintendent.

83. *Ponachy hills.*—The estates surveyed are situated in the middle range of the Annamallai hills. Two properties as many minor circuits and one puttah land were demarcated and surveyed, and details inserted in all, in 19 properties, etc.

84. Maps of 11 properties have been finished and sent to the Central Office for re-production.

85. The work has been performed at a cost of Rs. 1-11-0 per acre. It has been very costly in consequence of the impossibility of procuring labour and provisions on the spot. Major Hessey reports that the demarcation is very good.

86. As usual the traverses have been connected with Great Trigonometrical Points.

87. The expenditure has been Rupees 1,676-13-9.

88. *Nellamboor valley.*—The demarcation and survey of the valuable Teak forests in the valley was ordered to be commenced in Government Order, No. 2,618, of 5th November 1867. The Superintendent of the forests undertook the supply of stones.

89. A Surveyor was sent and arrived at the plantations on the 9th February 1870. His work at first went on very slowly, owing to want of labour.

90. Three estates have been demarcated and surveyed and are connected together.

91. The expenditure has been Rs. 406-11-0.

92. *Shervaroy hills.*—Three properties, in all 44·10 acres, were surveyed at a cost of Rs. 0-13-9 per acre.

93. *Bolumputty Valley.*—At the request of the Collector of the Coimbatore District, three Coffee estates of 467·2 acres were surveyed in the valley.

94. *No.* I. *Madras Demarcation.*—The Party was under the supervision of Captain Clay until 1st July 1869, when he handed over charge to Captain Liardet, who has since then been in executive charge of the field-work in the Conjeveram Taluq, under the control of Mr. Beaumont, Deputy-Superintendent, No. 5, Revenue Survey.

95. The boundary dispute between the Government and the Calastry Zemindari villages, referred to in paragraph 86 of the last Report, was brought to a close by Mr. Thornhill, and the demarcation in the Trivellore as well as in the Ponnery Taluqs, has been completed. In the Conjeveram Taluq, an area of 148·66 square-miles in boundaries, and 74·84 in fields, has been demarcated.

96. The progress of the Party is as follows :—

(1).	Boundaries demarcated. 535·28	(4).	Fields in progress 25·32
(2).	Do. in progress. 1·76	(5).	Sketches completed 265·57
(3).	Fields demarcated... 221·39	(6).	Do. handed over to Survey 227·46

97. As the work in the Trivellore and Conjeveram Taluqs was not progressing satisfactorily, a small detachment consisting of eighteen Gumastas under an Inspector was transferred from the Coimbatore District; the presence of these men has incited the Madras Gumastas to more energy and resulted in a change for the better.

98. The expenditure has been—

	RS.	A.	P.
On establishment...	44,531	10	3
Stones	14,064	1	6
Carriage	25,896	3	2

99. The amount incurred under the head Carriage has, compared with that of 1868-69, fallen in the proportion of 3 to 2. At present the villagers cart stones at their own expense direct from the stations to their villages.

100. The number of stones of all description erected during the year is given below :—

Village boundaries.

Items.	
1. No. of Villages...	276
2. ,, of Khandums	2,057
3. ,, of Boundary Station stones...	4,259
4. ,, of Do. offset do.	10,623
5. ,, of Khandum Station do.	7,310
6. ,, of do. offset do.	36,512
7. ,, of Minor Circuit do.	4,439

Field boundaries

1. No. of Villages	184
2. ,, Field marks	...2,33,027

101. Eighteen land disputes have been disposed of under the Boundary Act, and six remain unsettled.

102. The amount advanced by Government on account of ryots is Rs. 1,19,502-1-6, Rs. 2,506-11-8 have been recovered.

103. The season has been favourable for demarcation operations.

104. Fines to the amount of Rs. 124-4-0 have been inflicted on villagers under Act XXVIII. of 1860.

105. With the exception of a few, the conduct of the subordinates has been unsatisfactory.

106. The work has been inspected by the Superintendent.

107. No. II. *Ganjam Demarcation* The Party has been employed in the Berhampore. Taluq, at first under the orders of Mr. Gompertz, and on his transfer to No. 3 Party, under Mr. J. Tomlinson.

108. The subjoined Statement shows the progress of work during the year.

(1).	Boundaries demarcated 139·80	(4).	Fields in progress 13·71
(2).	Do. in progress 39·85	(5).	Sketches completed 135·38
(3).	Fields demarcated 60·17	(6).	Do. handed over to Survey 58·64

To the above must be added the re-demarcation of a village of 0·73 square-mile, in the Chicacole Taluq, handed over by the Revenue authorities, the separation of 17 Agraharams and Proprietory villages of 15·21 square-miles and the demarcation of the district boundary between the Chicacole Taluq and Vizagapatam District over a distance of 12 miles in length.

109. To facilitate supervision the head-quarters of the Party was removed to Berhampore.

110. The expenditure has been—

	RS	A.	P.
On establishment	14,975	4	2
Stones...	2,428	8	0

111. The number of marks of all kinds fixed during the year is given below :—

Village boundaries.

Items.	
1. No. of Villages	178
2. ,, of Khandums	1,263
3. ,, of Boundary Station stones ...	3,171
4. ,, of do. offset do. ...	13,524
5. ,, of Khandum Station do. ...	2,649
6. ,, of do. offset do. ...	18,771

Field boundaries.

Items.	
1. No. of Villages	134
2. ,, Field marks...	...1,56,882

112. The number of boundary disputes settled during the year is 21 under the Boundary Act, and 46 by amicable adjustment, besides 666 minor disputes.

113. The total amount advanced during the year for the purpose of demarcation is Rs. 22,889-11-8, and that recovered Rs. 2,417-13-7. Bills to the amount of Rs. 19,140-15-7 were sent for collection.

114. Rs. 102 have been inflicted as fines under Act XXVIII. of 1860, and collected.

115. The season has been comparatively healthy, except during the last two months of the year.

116. The conduct of the subordinates, Mr. Tomlinson reports, has been anything but good.

117. The Party was inspected by the Superintendent early in 1869-70.

118. No. III. *Coimbatore Demarcation.* During the official year the Party has been employed in the taluq of Caroor on fresh work.

(1). In Coimbatore on the demarcation of villages excluded by the late Settlement Department.

(2). Namacul (Salem District) on the demarcation of Zemindari tracts.

119. Mr. J. Tomlinson was at first in executive charge of the Party. On his transfer to the Ganjam District Mr. Cook was placed in charge.

120. The amount of work performed is given below:—

(1.)	Boundaries demarcated ...	291·58	(4.)	Fields in progress ...	61·51
(2.)	Do. in progress ...	46·41	(5.)	Sketches completed ...	120·67
(3.)	Fields demarcated	306·56	(6.)	Do. handed over to survey	471·8

121. During the first six months of the year an average of 36 square-miles per month was turned out, but half of the party having been transferred to the Madras District in September last, the outturn was reduced. The villages under demarcation in the Coimbatore Taluq are covered with jungle, and are very unhealthy. Though a good deal of cultivation is carried on, there are very few residents. In addition, therefore, to the difficulty in procuring labour, a great deal of clearing had to be made. In the Namacul Taluq, 34 out of 35 Mootahs have been completed, and only missing marks on the boundaries of Government villages remain to be placed.

		RS.	A.	P.
122.	The total expenditure has been on establishment	22,673	6	8
	Stones...	2,965	9	3

123. Appended is given the number of marks of every description erected during the year.

Village boundaries.

Items.		RS.
1.	No. of villages	261
2.	,, of Khandums	1,497
3.	,, of Boundary Station stones	2,369
4.	,, of do. offset do.	5,393
5.	,, of Khandum Station do.	6,983
6.	,, of do. offset do.	39,291
7.	,, of Minor circuits	325

Field boundaries.

1.	No. of villages	77
2.	,, of field marks...	1,57,722

124. Fifteen boundary and thirty-nine minor disputes were settled during the year.

125. Rs. 2,145-3-0 have been advanced and Rs. 743-3-10 recovered during the year.

126. Fines to the extent of Rs. 136 have been inflicted under the Boundary Act, one case under Section 9 of the Act was investigated. The offender was fined Rs. 7.

127. The season was favourable to work.

128. With one or two exceptions the conduct of subordinates has been good.

		Copies.
Neilgherry Hills...	Waste land blocks ...	40 = 156
	Properties ...	30 = 62
Shervaroy Hills ...	Waste land blocks ...	2 = 5
	Properties	2 = 5
	Total...	74·228

129. *Central Office.*—The expenditure in the Central Office has been Rs. 38,021-6-8. As usual it has been engaged in the checking of Accounts, Maps, and Records. 218 manuscript copies of maps of waste land blocks and properties in the Neilgherry and Shervaroy Hills were made and supplied during the year.

130. *Lithographic Press.*—During the year the press has printed 51,506 copies of 1,403 Village and Estate Maps, comprising an area of 2,886·61 square-miles, also one taluq and one Settlement Map. For the Revenue Settlement Department 730 copies of the Hydrographic Map of the Chidambaram Taluq, showing the different grades of irrigation were printed in colours.

	Copies.
Sydapet Taluq	150
Coonoor Settlement	120

	RS.	A.	P.
Village and Estate Maps	16,740	14	0
Taluq Maps	1,203	1	10
Hydrographic Maps...	112	4	3

131. The expenditure is given in the margin, and the cost of lithography is Rs. 5-12-3 per square-mile, or Annas 5-2 per copy.

132. The extra establishment sanctioned in Government Order, No. 2,114, of the 9th September 1867, has completed the District Map of Tinnevelly; and the Proof Sheets of the Kistna District have been forwarded to the Collector before being struck off, in accordance with the Proceedings Board of Revenue, dated 5th November 1869, No. 8,187.

133. The Tanjore District Map received on the 20th October 1869 for lithography could not be proceeded with, on account of the greater number of the village names, containing inhabitants from 500 to 2,000 and upwards, not being found either in the Map or Sheet Atlas of India, and has, therefore, been returned to the Collector, with Proceedings Board of Revenue, dated 30th March 1870, No. 2,125, for the purpose of having the names entered in the Map, in communication with the District Engineer.

Bellary.
South Canara.
Madura.

134. Application has been made to the Revenue Board for Maps of the districts named in the margin, to keep the establishment employed.

135. *General Remarks.* The Officers in charge of Nos. 1, 4 and 6 Parties report that they have been efficiently aided by their Assistants and subordinates, and Captain Cloeté, in charge of Kurnool, specially brings to notice his Assistant Mr. Merriman as zealous and intelligent.

136. In the districts of Cuddapah and Ganjam more especially the former, the prevalance of fever has materially retarded work. In Tinnevelly the disastrous floods at the close of 1869 gave a severe check to the progress of survey.

137. The position of Survey Officers since the promulgation in Government Order, dated 23rd January 1869, No. 209, of the interpretation of the Sections of Act XXVIII. of 1860, under which they hold powers, is far from satisfactory. Fortunately, the belief of ryots that they render themselves liable to punishment if they are obstructive, has rendered the infliction of fines under the Boundary Act by Survey Officers rarely necessary.

138. Surveys in accordance with Government Order, dated 17th March 1869, No. 720, have been carried on in three districts. In Nellore, the order has permitted the completion of 4 Taluq Maps. The cost per square-mile has been respectively Rs. 19-7-1, 10-4-8, and 14-8-1.

Nellore.
Coimbatore.
Tinnevelly.

139. To Major Hessey I am indebted for having superintended the instruction of Surveyors from each district in a uniform mode of Plane Table surveying.

140. The system formerly adopted by the Demarcation Department under the Settlement of omitting large tracts of country even though containing a district boundary or even a railway, provided it was not Government land, producing revenue, has been a source of difficulty to this department when desirous of completing maps, in accordance with the order above quoted. It unfortunately happens also that in the districts where their assistance is most required, the Settlement Demarcation cannot aid us, on account, as they say, of the distance at which the omitted tracts are situated, from where the demarcators are now employed. The labour of repairing these omissions in remote and unhealthy localities falls, therefore, on this department, enhancing both cost and labour

141. I have to thank Mr. Beaumont for his zealous endeavours to reduce the cost of demarcation in the Madras District. Although his judicious management has already borne fruit, its results will, I believe, still more unmistakeably appear in the next taluq demarcated. When Conjeveram is completed the contract entered into with an English Contractor (reported last year) will terminate, and with the co-operation of villagers, I trust the operation of demarcation will be performed as economically as in any other part of the country. I am of opinion that the ryots have at length learned that their own interests as well as those of Government, are equally served by the speedy completion of demarcation and that obstructiveness is synonymous with increased expenditure.

RETURN of area surveyed and cost incurred during the year 1869-70.

Names of Parties.	Extent measured in square-miles.	Actual Expenditure during the year.	Estimated measurement allowance.	Expenditure including estimated measurement allowance.	Share of Central Office exclusive of Superintendent's Regimental allowance.	Expenditure of each party inclusive of the share of Central Office.	CHARGEABLE TO GENERAL FUND.				Total expenditure including all charges.
							Regimental allowance of the Superintendent and Officers.	Measurers and Coolies.	Instalments issued.	Total chargeable to General Fund.	
		Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
No. 1 Coimbatore	184	76,559 8 0	1,000	77,559 8 0	3,382 0 11	80,941 8 11	15,394 11 2	.....	433 5 8	15,828 0 10	96,769 9 9
„ 2 Kurnool	325	56,371 5 2	2,000	58,371 5 2	3,382 0 11	61,753 6 1	4,155 4 4	2,208 7 7	1,006 6 8	7,370 2 7	69,123 8 8
„ 3 Cuddapah	473	67,619 5 4	1,500	69,119 5 4	3,382 0 11	72,501 6 3	4,424 11 4	.....	917 5 8	5,342 1 0	77,843 7 3
„ 4 Tinnevelly	649	71,679 9 9	2,000	73,679 9 9	3,382 0 11	77,061 10 8	4,686 3 2	.....	217 11 10	4,903 15 0	81,965 9 8
„ 5 Nellore and Madras ...	1,841	52,864 12 6	1,000	53,864 12 6	3,382 0 11	57,246 13 5	3,645 0 8	.....	432 11 8	4,077 12 4	61,324 9 9
„ 6 Ganjam	85	26,770 15 5	500	27,270 15 5	1,691 0 6	28,961 15 11	903 2 4	2,405 14 11	954 11 0	4,263 12 3	33,225 12 2
Salem	.....	1,418 10 2	.....	1,418 10 2	.....	1,418 10 2	.....	.....	.....	.....	1,418 10 2
Kistna...	.....	2,193 6 10	.....	2,193 6 10	.....	2,193 6 10	.....	.....	.....	.....	2,193 6 10
Bellary	.....	193 1 1	.....	193 1 1	.....	193 1 1	.....	.....	.....	.....	193 1 1
Total...	3,517	3,55,670 10 3	8,000	3,63,670 10 3	18,601 5 1	3,82,271 15 4	33,209 1 0	4,614 6 6	3,962 4 6	41,785 12 0	4,24,057 11 4
Neilgherries	.....	34,450 15 5	.....	34,450 15 5	.....	34,450 15 5	978 12 0	.....	.....	978 12 0	35,429 11 5
Ponachy Hills	.....	1,676 13 9	.....	1,676 13 9	.....	1,676 13 9	.....	.....	.....	.....	1,676 13 9
Sherveroy Hills	.....	38 7 2	.....	38 7 2	.....	38 7 2	.....	.....	.....	.....	38 7 2
Total...	3,517	36,166 4 4	.....	36,166 4 4	.....	36,166 4 4	978 12 0	.....	.....	978 12 0	37,145 0 4

CHEPAUK,
28th July 1870.

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

STATEMENT showing the extent of Demarcation work performed by the Demarcation Parties and the expenditure incurred thereon for the official year 1869-70.

Districts.	Number of villages completed.	Number of villages in progress	Actual work in square-miles.	Cost.	Share of Central Office.	Total.	Cost of Pillars.
				Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Madras Demarcation.	277	3	537·04	44,531 10 3	3,382 0 11	47,913 11 2	*39,960 4 8
Ganjam do.	178	29	179·65	14,975 4 2	1,691 0 5	16,666 4 7	2,428 8 0
Coimbatore do.	261	13	237·99	22,673 6 8	3,382 0 11	26,055 7 7	2,965 9 3
	716	45	1,054·68	82,180 5 1	8,455 2 3	90,635 7 4	45,354 5 11

* Includes Rs. 25,896-3-2 on account of carriage of stones.

REVENUE SURVEY OFFICE,
Chepauk,
28th July 1870.

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

STATEMENT of expenditure of the Revenue Survey Lithographic Department for the year 1869-70.

	Extent in square-miles.	Expenditure.	Cost per square-mile.
—		Rs. A. P.	Rs. A. P.
Village Maps ...	2,887	16,740 14 0	5 12 9
Total...	2,887	16,740 14 0	5 12 9

REVENUE SURVEY OFFICE,
Chepauk,
28th July 1870.

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

STATEMENT of comparative distances between Grand Trigonometrical Stations.

Districts.	Stations.	DISTANCES.		Difference.	Error per mile.
		By Trigonometrical Survey.	By Revenue Survey.		
		Rs.	Rs.	Rs.	
Kurnool District.	From Karrabelagallu to Poolycondah.	1,27,942	1,27,719	223	9·20
	„ Koelcondah to do. ...	54,086	54,051	35	3·42
	„ Dhonecondah to do. ...	93,040	93,157	117	6·50
	„ Do. to Koelcondah ...	88,440	88,584	144	8·59
Coimbatore District, Neilgherry Hills.	„ Davurbettah Snowdon to Club Hill.	9,342·1	9,328·8	14·3	8·00
	„ Do. do. to Chenna Doda.	25,416·7	25,369·7	47·0	9·76
	„ Carin Hill to Club Hill	18,268·9	18,245·3	23·6	9·39
	„ Do. to Chenna Doda ...	10,707·6	10,694·0	13·6	6·70
	„ Club Hill to do.	19,790·3	19,758·2	32·1	8·56
	„ Do. to Elk Hill	9,757·6	9,760·4	2·8	1·51
	„ Do. to Dodabettah ...	15,786·6	15,776·1	10·5	3·51
	„ Chenna Doda to Elk Hill ...	11,872·6	11,840·6	32·0	14·23
	„ Do. to Dodabettah ...	18,212·6	18,188·8	23·8	6·89

REVENUE SURVEY OFFICE,
Chepauk,
28th July 1870.

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

ENCLOSURE No. 1.

Statement of work remaining to be completed in districts under Survey on the 1st April 1870.

Districts.	No. of talugs in the district.	No. of talugs completed.	No. of talugs under survey.	Extent. No. of villages.	Extent. Square-miles.	Boundary to be surveyed. No. of villages.	Boundary to be surveyed. Square-miles.	Field to be measured. No. of villages.	Field to be measured. Square-miles.	Field to be plotted. No. of villages.	Field to be plotted. Square-miles.	To be detailed. No. of villages.	To be detailed. Square-miles.	Area to be sent to the Settlement Department. No. of villages.	Area to be sent to the Settlement Department. Square-miles.	Maps to be sent to the Central Office. No. of villages.	Maps to be sent to the Central Office. Square-miles.	Remaining to be surveyed topographically.	Remarks.
No. 1. Salem ...	9	8	1	389	509·13	...	.....	...	.....	...	.....	...	.....	...	.....	4	11·24		
,, ... Coimbatore.	11	5	6	979	3,493·85	53	488·59	82	740·58	100	868·50	567	2,590·13	191	1,426·83	831	3,301·07		
,, 2. Kurnool ...	8	1	7	674	4,251·13	59	366·84	25	230·00	94	865·35	215	1,492·31	153	886·26	525	3,284·68		
,, 3. Cuddapah...	11	...	6	731	2,413·20	50	71·45	...	.....	179	38·21	579	1,992·74	428	1,610·88	693	2,413·20		
,, 4. Tinnevelly..	9	2	7	885	2,518·93	53	83·22	98	271·84	147	386·67	287	1,255·73	253	1,190·38	313	1,421·67		
,, 5. Nellore ...	9	9	...	554	5,049·37	...	.....	...	.....	...	.....	...	676·78	...	1,743·90	...	676·78		
,, ... Madras ...	6	1	3	836	1,129·36	61	137·14	53	69·07	113	123·51	267	463·31	207	394·35	401	615·77		
,, 6. Ganjam ...	3	...	2	749	714·87	367	328·62	320	367·29	369	385·85	583	551·52	594	554·92	682	631·01		
Total...	66	26	32	5,797	20,079·86	643	1,475·86	578	1,678·78	1,002	2,668·09	2,498	9,022·52	1,826	7,807·52	3,454	12,355·42		

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

REVENUE SURVEY OFFICE,
Chepauk,
28th July 1870.

THESE two letters contain the usual Annual Reports on the operations of the Revenue Settlement and Survey establishments.

2. *Settlement Department.*—Mr. Banbury opens his Report by referring to the present state of the districts with which the new Settlement has already been introduced.

3. *The Chellumbarum Taluq of South Arcot.*—There has been an increase in the cultivated area of this taluq as well as in the assessment and Fasaljasty, but the considerable falling off in *Kusser* or additional Water-tax more than counterbalances that increase, and the result is a net loss of Rs. 1,143. No reason is given for this.

4. *Trichinopoly.*—A large extent of concealed cultivation was brought to light during the past year by the Collector's establishment, aided by the Settlement Department, and the revenue of the district now nearly approaches what it was before the new settlement was introduced.

5. *The Masulipatam portion of the Kistna District.*—The demand for Fasli 1279 in this district exceeded that of the previous year by 14 per cent., and is Rs. 1,22,958 in advance of the demand for this year before the new settlement was introduced.

6. *The four talugs of Kurnool into which the new Settlement has been introduced,* show a falling off of Rs. 11,134 as compared with Fasli 1278, and a still larger decrease, namely, 46,995, as compared with the year 1273 being the last before the settlement began to take effect. No explanation has been afforded of this, and the Collector will be requested to report specially on the subject.

Districts.	Average commutation price of all grains.	Average price of all grains in Fasli 1279.
Godavery	70	126
South Arcot	86	182
Trichinopoly	77	163
Kurnool	92	169
Kistna	85	160
Salem	100	156

7. *Prices per Garce.*—In paragraph 8 Mr. Banbury gives an interesting Comparative Statement, showing the Settlement commutation prices of each district compared with those prevailing last year. The difference is largely in favour of the ryot.

8. *Proposals for the Settlement of other districts.*—The last Settlement on which a report has been submitted is that for the Guntoor Division of the Kistna District, but the report on six taluqs of Nellore and on the Pattikonda Taluq of Kurnool are nearly ready.

Demarcation.				Classification.			
Years.	Square-miles.	Cost.	Per mile.	Years.	Square-miles.	Cost.	Per mile.
		RS.				RS.	
1868-69.	847	71,954	85	1868-69.	2,007	1,30,085	65
1869-70.	1,098	67,051	61	1869-70.	2,203	1,46,380	66

9. *Operations now in progress.*—In paragraph 13 it appears that 1,048 square-miles were demarcated (chiefly in Cuddapah, 1,042 square-miles) at a cost of Rs. 61 per square-mile, and 2,203 square-miles (in Cuddapah 706, and in Nellore, 1,268) were classified at a cost of Rs. 66 per square-mile.

10. The total expenditure of the Settlement Department during the year was Rs. 2,55,556. The amounts debited to Godavery and Kistna were chiefly expended in connection with the preparation of Registers of the completed Settlement. In the same districts some limited surveys, etc., were likewise undertaken.

11. Seven hundred thousand (6,93,438) stones were put down in the year, of which 6,82,000 were field stones, set up at the cost of the ryots. Neither the cost of stones per acre of land demarcated, nor the cost per stone to the State and ryot respectively is given. But Mr. Banbury reports very favourably of the work so far as his own observations go.

12. In paragraph 31 Mr. Banbury reports that the classification of land in Salem had to be extensively revised. Mr. Banbury should report on this subject in full detail for the revision must have materially disturbed the sanctioned settlement. He should also state why, and to what extent surveyed areas such as those comprised in Puttah holdings, had to be re-measured, whether such measurements are represented in the maps, and what means have been taken to preserve and make them permanent.

13. *Survey Department.*—Colonel Priestley reports on the operations of his subordinates in the seven districts where his work was in progress. The area comprised is very much larger than last year. In addition to this considerable expenditure has been incurred in the Neilgherries (Rs. 34,451) and other Hill tracts (Rs. 36,166), for which the area is not given.

Coimbatore.	Nellore.
Kurnool.	Chingleput.
Cuddapah.	Ganjam.
Tinnevelly.	

14. 3,517 square-miles were surveyed in the 32 taluqs under survey at a total cost of Rs 4,24,058, or Rs. 177 per square-mile, and Village Maps were prepared for 2,887 square-miles at a cost of Rs. 5-12-9 per square-mile. 20,080 square-miles, on the greater part of which the work is far advanced, remain to complete the districts* in which the Survey Department is now engaged.

* Chingleput.	Tinnevelly.
Coimbatore.	Ganjam.
Kurnool.	Salem.
Cuddapah.	

15. Demarcation was effected on 1,055 square-miles, at a cost of Rs. 90,635 or Rs. 86 per square-mile. The Demarcation by the Settlement Department cost only Rs. 61 a-mile, as has been mentioned above, but the Survey Department work more in detail. Rs. 45,354 were spent on setting up pillars, but it does not appear whether any part of this is recoverable.

16. Colonel Priestley reports favourably of the work and conduct of his subordinates in Coimbatore. Measures should be taken to connect the Survey there with the Grand Trigonometrical Survey as soon as possible.

17. In Kurnool serious difficulties were caused by the instability of the establishment, and in Cuddapah change and ill-health affected progress, and inaccuracies and imperfections in the demarcation performed by the Settlement Department tended likewise to retard work in parts of the district.

18. In Tinnevelly Survey operations extended to all the taluqs except Sattur and one taluq was completed as also were all the Zemindari and Inam lands in the south.

19. In the Chingleput District the Survey, etc., of the Ponnery Taluq was completely finished, and that of the Trivelloro Taluq nearly so. It is observed that demarcation was allowed to fall short of the Survey requirements, an occurrence which should have been carefully avoided. Transfers have, it is hoped, restored equilibrium.

Proceedings of the Madras Government, Revenue Department,
8th March 1871.

20. In Nellore the survey of Zemindaries is in progress, and considerable advance has been made in supplying maps to the Central Office.

21. In Ganjam fair progress is reported.

22. The report on the Neilgherries shows a large quantity of detached Survey and Demarcation work satisfactorily completed or in progress in connection with Land-revenue and the Forest Department.

23. The estates in the Ponachy Hills and the Government Teak Plantation at Nelambur have been surveyed and mapped, and three estates were surveyed on the Shervaroy Hills, etc.

24. *Demarcation.*—Demarcation is progressing in the Chingleput District, where two taluqs have been completed and a third (Conjeveram) is well advanced. The party has been strengthened by transfers from Coimbatore.

25. In Ganjam the work done seems less than might be desired and of the advances made (Rs. 22,890) the recoveries are very limited (Rs. 2,418). Fever has been prevalent.

26. The Coimbatore Party has been employed between Coimbatore and Salem, and has worked with success.

No. 124. Proceedings of the Board of Revenue, dated 3rd November 1870, No. 6,462.

Read the following letter from the Acting Director of Revenue Settlement, to the Acting Secretary to the Board of Revenue, dated Madras, 14th October 1870, No. 1,704-53.

I HAVE the honour to forward a Statement, showing the cost of stones used in demarcation work, and requested in paragraph 11 of Board's Proceedings, dated 17th September. It must be remembered that the whole cost has been borne by the ryots, and no outlay has been incurred on this account by the State:—

Description of Marks.	Voilpad Taluq.	Royachoty Taluq.
	RS. A. P.	RS. A. P.
Boundary Station Marks	0 8 4	0 5 11
Do. auxiliaries	0 8 4	0 4 6
Khandum Station Marks	0 8 4	0 5 11
Do. auxiliaries	0 8 4	0 4 6
Field Marks	0 2 1	0 2 0

2. I note that in paragraph 17 of the Proceedings above quoted, the Board record that delay to survey work was occasioned in Cuddapah by inaccuracies and imperfections in the demarcation performed by the Settlement Department. But I must explain that these deficiencies are owing to the introduction of more extended operations subsequent to the demarcation referred to being completed. Thus the Hill boundary demarcation for topographical purposes was not then part of the operations, neither was the demarcation of extensive tracts, with little or no cultivation, then undertaken. The outlay was deemed a barrier. The Hill demarcation is that referred to in Colonel Priestley's letter to the Board, dated 11th June 1870, in which he asks for Rs. 4,26,000 to complete the work, and the waste demarca-

tion is that referred to in my letter of the 15th ultimo, No. 1,507, in which I apply for Rs. 15,000 in order to meet this outlay, hitherto not incurred by this Department.

SUBMITTED for the information of Government in continuation of Board's Proceedings, 17th September 1870, No. 5,777.

No. 125. ORDER THEREON, 8th March 1871, No. 418.

Land Revenue.		
Assessment.	Fasli 1278.	Fasli 1279.
	RS.	RS.
Chellumbrum Taluq of South Arcot ...	5,20,911	5,19,768.
Trichinopoly	13,90,385	15,24,782.
Masulipatam Division of the Kistna District	6,48,696	7,39,676.
Kurnool Proper ...	6,93,603	6,82,469.
Settled taluqs of the Godavery District.	14,15,108	Not stated.

MR. BANBURY commences his report by comparing the revenue demand of Fasli 1279 in the districts or portions of districts to which the new Settlement has been extended with that of the previous Fasli. The figures exhibiting the comparison are given in the margin.

2. The decrease of revenue in the Chellumbrum Taluq of South Arcot was confined to the item Kusser or additional water-tax, the cultivated area having increased by acres 821. The Collector should explain, through the Board, the falling off in the Water-tax.

3. The Trichinopoly District still manifests a steady and gratifying progress in its land-revenue. A considerable portion, however, of the increase for Fasli 1279 resulted from bringing to account numerous items of revenue which ought to have been charged to the ryots, but which had previously been evaded. This result has been attained at a cost of Rs. 5,503 for a special establishment employed under the Collector by transfer from Salem. The Director will submit a brief report on these evasions, showing how there came to be opportunity for them, and how they can be guarded against in future.

Total increase, Rs. 1,34,397.

4. The Masulipatam division of the Kistna District shows an increase in the Settlement demand of Rs. 90,980, or 14 per cent. of the assessment of Fasli 1278. This is highly satisfactory; for the large relinquishment by the ryots of wet land, especially in the Gudivada Taluq, which Mr. C. G. Master in his report attributed in great measure to the coincident introduction of the new Settlement and an enhanced rate of Water-tax, threatened at one time to produce serious financial results. The Uncovenanted Assistant in charge of the Party reports that the restoration of elasticity to the revenue is due, firstly, to steadiness of high prices, and, secondly, to the disappearance of an unfounded belief that the Water-tax was about to be raised.

5. The revenue demand on the settled portion of the Kurnool District is still in excess of the beriz of Fasli 1275, the year before the introduction of the Settlement, but the decrease in the cultivated area which commenced in Fasli 1278 still continues. The district officers have already been called upon to explain the cause of this decline.

6. The returns from the Godavery District will, owing to the recent fluctuations of revenue in the settled taluqs, contain important data, and should be submitted as soon as they are received.

Grain.	Salem.		Kistna.		Kurnool.		Trichinopoly.		Salem.	
	Commutation price per garce.	Estimated price realized by ryots.	Commutation price per garce.	Estimated price realized by ryots.	Commutation price per garce.	Estimated price realized by ryots.	Commutation price per garce.	Estimated price realized by ryots.	Commutation price per garce.	Estimated price realized by ryots.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Paddy, 2nd sort.	72 0 0	91 0 0	71 12 8	108 0 0	66 10 8	117 7 0	100 0 0	117 7 0	100 0 0	117 7 0
Cholum ...	84 0 0	111 0 0	116 10 8	120 0 0	100 0 0	116 8 0	100 0 0	125 0 0	100 0 0	125 0 0
Ragi	66 0 0	106 0 0	93 5 4	108 0 0	83 5 4	109 13 0	100 0 0	104 10 0	100 0 0	104 10 0
Kusser ...	.....	.....	.....	137 0 0	.....	154 0 0	.....	.....	.....	.....

7. In paragraph 8 of his report Mr. Banbury compares the average selling price, during Fasli 1279, of the five standard species of grain with the "commutation prices" of the same in the districts to which the settlement has been extended. According to his computation there is a difference in favour of the ryot which, in several cases, rises to 250 per cent., and never falls below 45 per cent. But since the Director's report was written, the price of grain in most districts has fallen considerably, and in order to institute a true comparison between the commutation and current prices, it is necessary to make a deduction from the latter of about 15 per cent. for "merchants' profits and cartage," the rates realized by the bazaarmen being to about that extent in excess of those obtained by the bulk of the ryots. The statement in the margin compares the current prices of September 1870, subject to the above-mentioned deduction with the commutation rates. It will be seen that by this computation the diversity between the two rates, although in many instances considerable, is not nearly so startling as that shown in Mr. Banbury's report, and unless the decline in prices which still continues general undergoes a check, the two rates will closely approximate in some districts at all events for a time.

8. The operations of the Settlement Department during the year 1869-70 are divided under two heads, Demarcation and Classification. The Kurnool and Cuddapah Party, having nearly concluded operations under both heads in the former district were principally occupied during the year under review in Cuddapah where they demarcated 1,042 square-miles at an average cost of Rs. 50-1-1 per square-mile. The rest of the expenditure on demarcation (Rs. 67,051) was distributed as

	Rs.
Kistna	5,999
Nellore	2,667
Kurnool	2,161
Salem	364

marginally shown. In the case of Kurnool neither the cause of expenditure in a district which had been pronounced completed nor the amount of work performed are stated. In the Kistna District demarcation of 29 square-miles, at an average cost of Rs. 207 per square-mile, was necessitated by the fluctuating character of some lunkas in the river. In Nellore 25 square-miles were demarcated at Rs. 107 per square-mile. The rates in both these cases are high.

9. The expenditure incurred on classification during the year is shown in the marginal statement. The extent of the work performed is only stated specifically in the cases of Nellore, Cuddapah, and Kistna. The average rate of expenditure per square-mile has decreased in Cuddapah, but is still much higher than that in Nellore, which fact is attributed to the prevalence of sickness and the inefficiency of the Curnums in the former district. In Salem the large expenditure which was incurred appears to have been principally due to the faulty character of the original classification, and to the obliteration of demarcation marks. The report on this point which the Board have called for should be eventually submitted by them to Government. The expenditure in Kistna and Kurnool was also large, considering the work performed, and the reason for outlay in these districts has not been sufficiently explained.

	Rs.
Nellore	50,274
Cuddapah	45,910
Salem	22,587
Kistna	13,965
Kurnool	7,291
Trichinopoly	5,503
Godavery	800
Tinnevelly	50
Total...	1,46,380

10. The total expenditure by the Settlement Department during the year was Rs. 2,35,586, or Rs. 85,014 less than the sanctioned amount. The only increase on the Budget-estimate occurred in the Nellore District.

11. *Revenue Survey.*—Survey operations were conducted during the year in the districts noted in the margin where the expenditure incurred is also shown. Work to a small extent was also carried out on the Shervaroy and Ponachy Hills, but no cause is assigned for the expenditure shown to have been incurred in the Salem, Kistna, and Bellary Districts.

	Rs.
Coimbatore	76,559
Kurnool	56,371
Cuddapah	67,619
Tinnevelly	71,679
Nellore and Chingleput	52,864
Ganjam	26,770
Neilgherries	34,450

Demarcation was also carried on during the year at the cost shown in the margin which includes the cost of pillars. Comparing the expenditure with the quantity of work performed, it appears that the average cost per-square mile was Rs. 157-8-0 in Chingleput, Rs. 96 in Ganjam, and Rs. 75 in Coimbatore. These rates of expenditure are much in excess of the average rates at which the Settlement Department conducts demarcation, but the

	Rs.
Chingleput	84,491
Ganjam	17,403
Coimbatore	25,638

Proceedings of the Madras Government, Revenue Department,
8th March 1871.

work turned out is probably superior to a proportionate degree. It is observed that Colonel Priestley anticipates a material reduction of cost in the Chingleput District in future.

12. An area of 2,951 square-miles is reported ready for Settlement in the Coimbatore District, and five out of the eleven taluqs have now been completed. The survey of this district should be pressed on in view to the early introduction of Settlement operations.

13. Defective demarcation by the Settlement Department in the Cuddapah District is assigned by the Superintendent as a cause of delay in the survey operations. Mr. Banbury has since sent in to the Board an explanation on this point.

14. The recovery, through the Revenue-officers, of the advances made for demarcation in Ganjam appears to be slow. The Collector's attention should be called to the subject.

15. The total expenditure during the year by the Survey Department is shown in the margin. The aggregate amount spent would appear to be 6,05,478 from the tabular statements appended to Colonel Priestley's report, but these are not very clear. The Budget grant for the year was Rs. 6,69,560.

	Rs.	A.	P.
* Expenditure on survey incurred in the plains ...	4,24,057	11	4
Do. on the Neilgherry, Ponachy, and Shervaroy Hills	37,145	0	4
Total expenditure on demarcation	1,27,534	11	0
Do. in Lithographic Department	16,740	14	0
Total ...	6,05,478	4	8

16. Colonel Priestley will, in future reports, briefly compare the actual and estimated expenditure of the year, and explain any marked differences.

(True Extract.)

(Signed) W. HUDLESTON,
Secretary to Government.

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

Exd. F. R. Bantleman.

No. 6,462.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 3rd November 1870.

Read the following letter from G. BANBURY, Esq., Acting Director of Revenue Settlement, to the Acting Secretary to the Board of Revenue, dated Madras, 14th October 1870, No. 1,704-53:—

I HAVE the honour to forward a Statement, showing the cost of stones used in demarcation work, and requested in paragraph 11 of Board's Proceedings, dated 17th September. It must be remembered that the whole cost has been borne by the ryot and no outlay has been incurred on this account by the State.

Description of Marks.	Voilpad Taluq.			Royachoty Taluq.		
	RS.	A.	P.	RS.	A.	P.
Boundary Station Marks	0	8	4	0	5	11
Do. Auxiliaries	0	8	4	0	4	6
Khandam Station Marks	0	8	4	0	5	11
Do. Auxiliaries	0	8	4	0	4	6
Field Marks	0	2	1	0	2	0

2. I note that in paragraph 17 of the Proceedings above quoted, the Board record that delay to survey work was occasioned in Cuddapah by inaccuracies and imperfections in the demarcation performed by the Settlement Department. But I must explain that these deficiencies are owing to the introduction of more extended operations subsequent to the demarcation referred to being completed. Thus the Hill boundary demarcation for topographical purposes was not then part of the operations, neither was the demarcation of extensive tracts, with little or no cultivation, then undertaken. The outlay was deemed a barrier. The Hill demarcation is that referred to in Colonel Priestley's letter to the Board, dated 11th June 1870, in which he asks for Rs. 4,26,000 to complete the work, and the waste demarcation is that referred to in my letter of the 15th ultimo, No. 1,507, in which I apply for Rupees 15,000 in order to meet this outlay, hitherto not incurred by this Department.

SUBMITTED for the information of Government in continuation of Board's Proceedings, 17th September 1870, No. 5,777.

(A true Copy and Extract.)

J Grole

Acting Secretary.

To the Acting Secretary to Government, Revenue Department.

Copy to the Acting Director of Revenue Settlement.
" to the Superintendent of Revenue Survey.
" to the Collector of Kurnool.

Exd. G. A. Turton.

Revenue Department

No. 1418.

Proceedings of the Madras Government

Under date the 8th March 1871

Read the following

Proceedings of the Board of Revenue

Submitting Reports on Revenue Settlement and Survey operations in Madras Presidency during 1869-70.

(G.O. 17th Sept. 1870 No. 5777)

= Letter from Dir. of Rev. Sett. = submitting a statement showing cost of stones used for demarcation during 1869-70.

(— " — 3rd Nov. 1870 No. 6462)

Assessment

July 1278 - July 1279 - 519,768

Chellumbrum Taluq - 520,911

of South Arcot

Trichinopoly - - 1390385 - 1524,782

Masulipatam division of the Kistna District - 6,48,696. 739,676

Kurnool proper - 693,603 - 682,469

Salem Taluq of the Godavery district - 14,1,108 - not stated

= Mr Bombay Commenced the report by the Revenue Commissioner = laying the Revenue demands of the several districts for July 1279 in the districts to which the Settlement has been extended = ed with the Statistics of the various districts = The figures exhibiting the Settlement of the Kistna District = July. The figures exhibiting the Settlement of the Kurnool proper = July. Comparison of one given in the margin.

No

5 August 1870 No 25 P.L.

Ch. 2950/70

Revenue 1870.

Board of Revenue,

MADRAS. No. 3496

PROCEEDINGS, 3RD NOVEMBER 1870, No 6,462.

Despatch No 190 Encl.

Received 11th

SO No 1418 - 8 March 1871

NOVEMBER.

No. 6,462.

Stones used for demarcation—during 1869-70—Letter from Director of Revenue Settlement, forwarding a statement showing cost of, submitted to Government.

No. 8th March/71

B. No. 123

Ch 12 June 1871 Yelr

2. The decrease of revenue in the Chellumbrum Taluq of South Arcot was confined to the item Nusser or additional water tax, the cultivated area having increased by acres 821. The Collr. should explain through the Board the falling off in the water tax.

3. The Trichinopoly district still manifests a steady and gratifying progress in its land revenue. A considerable portion, however, of the increase for Fusly 1279 resulted from bringing to account numerous items of revenue which ought to have been charged to the ryots, but which had previously been evaded. This result has been attained at a cost of Rupees 5,503 for a Special Establishment employed under the

	Rs.
Total increase - -	134,397

the Collector by transfer from Salem. The Director will submit a brief report on these evasions showing how there came to be opportunity for them, and how they can be guarded against in future.

4. The Masulipatam division of the Kistna District shows an increase in the Settlement demand of Rs 99,980 or 14 per cent of the assessment of Fusly 1278. This is highly satisfactory, for in the large relinquishment by the ryots of wet land, especially in the Gudiwada Taluq which Mr. C. G. Master in his report attributed in great measure to the Coincident introduction of the new

new settlement and raise the enhanced rate of water tax, threatened at one time to produce serious financial results. The Uncovenanted Assistant in charge of the party reports that the restoration of elasticity to the revenue is due firstly to steadiness of high prices, and secondly to the disappearance of an uninformed belief that the water tax was about to be raised.

5. The revenue demand on the settled portion of the Kurnool District is still in excess of the demand of Fusly 1275 the year before the introduction of the settlement, but the decrease in the cultivated area which commenced as in Fusly 1278 still continues. The District officers have already been called upon to explain the cause of this decline.

6. The returns from the Godavery district mill, owing to the recent fluctuations of prices of revenue in

in the settled
Talugs contain
important matter
and should be
submitted as soon
as they are re-
ceived.

7. In paren 8
of his Report Mr
Bardbury com-
pares the
average selling
price

price during Fusly 1279 of
the five standard species of
grain with the "commutation
prices" of the same in the district
to which the settlement has been
extended: According to this
Computation there is a difference
in favor of the ryot which
in several cases rises to 250
per Cent and never falls below
45 percent But since
the Director's report was
written, the price of grain
in most districts has fallen
considerably, and in order
to institute a true comparison
between the commutation and

Current

Grain	Godavery		South Arcot		Kistna		Salem	
	Commutation price for year	Estimate from realised by ryots	Commutation price for year	Estimate from realised by ryots	Commutation price for year	Estimate from realised by ryots	Commutation price for year	Estimate from realised by ryots
Paddy 2nd Sort	Rs. As. P. 2 0 0	Rs. As. P. 91 0 0	Rs. As. P. 71 12 8	Rs. As. P. 108 0 0	Rs. As. P. 100 0 0	Rs. As. P. 117 7 0	Rs. As. P. 117 7 0	Rs. As. P. 110 0 0
Cholum	84 0 0	11 0 0	116 10 8	120 0 0	100 0 0	125 0 0	105 0 0	152 0 0
Ragi	66 0 0	106 0 0	93 5 4	108 0 0	83 5 4	109 13 0	" " "	154 0 0
	Kurnool		Kistna		Salem			
	Commutation price for Grain	Estimate from realised by ryots	Commutation price for Grain	Estimate from realised by ryots	Commutation price for Grain	Estimate from realised by ryots		
Paddy 2nd Sort	Rs. As. P. 82 0 0	Rs. As. P. 105 0 0	Rs. As. P. 125 0 0	Rs. As. P. 100 0 0	Rs. As. P. 117 7 0	Rs. As. P. 105 0 0		
Cholum	105 0 0	152 0 0	90 0 0	164 9 0	100 0 0	125 0 0		
Ragi	" " "	154 0 0	95 0 0	137 0 0	100 0 0	104 10 0		

Even if prices it is necessary to make a deduction from the above ~~latter~~ of 15 per cent for cartage and "merchants profits" the rates realised by the bazaar merchants being to about that extent in excess of those obtained by the ryots. The statement in the margin compares the current prices of September 1870 subject to the aforementioned deduction with the commutation rates. It will be seen that by this computation the diversity between the two rates, although in many instances considerable is not nearly so startling as that shewn in Mr. Sunderay's report, and unless the decline in prices which still continues generally undergoes a check the two rates will

will closely approximate some in ~~each~~ districts at all events for a time.

8. The operations of the Settlement Department during the year 1869-70 are divided under two heads. Demarcation and Classification. The Kurnool and Cuddapah party having nearly concluded operations under both heads in the former district, were principally occupied during the year under review in Cuddapah while in they demarcated 1,042 Square Miles at an average cost of Rs. 1-1 per Square Mile. The rest of the expenditure on demarcation (Rs. 67,051) was distributed as marginally shewn. In the case of Nellore neither the cost of expenditure in a district in which

which had been provisionally completed nor the amount of work performed are stated.

In the Kistna District demarcation of 29 Square miles at an average cost of Rs 207 per Square miles was necessitated ~~owing~~ to the fluctuating character of some Lunkas in the river. ~~and~~ In Nellore 25 Square miles were demarcated at Rs 107 per Sq: mile. The rates in both these cases are high.

9. The expenditure incurred on Classification during the year is shewn in the × marginal statement. The extent of the work performed is only stated specifically in the cases of Nellore, Cuddapah and Kistna. The average rate of expenditure per Sq: mile has decreased in Cuddapah but is still much higher than even that in Nellore, which fact

	Rs:
× Nellore	50,274
Cuddapah	45,910
Salem	22,587
Kistna	13,965
Kurnool	7,291
Trichinopoly	5,503
Godavery	800
Tinnevelly	50
Total	1,46,380

such is attributed to the prevalence of sickness and the inefficiency of the Curnums in the former district. In Salem the large expenditure which ~~has been~~ was incurred appears to have been principally due to the faulty character of the original classification and to the obliteration of demarcation marks. The report on this point which the Board have called for should be, ~~& submitted~~ eventually by them to Government. The expenditure in Kistna and Kurnool was also large, considering the work performed, and the reason for

for outlay in these dis-
tricts has not been suf-
ficiently explained.

10. The total expendi-
ture by the Settlement Department
during the year was Rs. 2,35,586,
or Rs. 85,014 less than the
sanctioned amount. The
only increase on the Budget
estimate has occurred on
the Nellore district.

11. Survey operations ~~have~~ Revenue Survey
~~have~~ been conducted during
the year in the districts,
noted in the margin where
the expenditure incurred
is also shewn. Work to
a small extent has also
been carried out on the

	Rs.
Coimbatore	76,589
Kurnool	56,371
Cuddapah	67,619
Tinnevelly	71,679
Nellore & Chingleput	52,864
Ganjam	26,770
Nilgherries	34,450

Chingleput — Rs. 84,491
Ganjam — " 17,403
Coimbatore — " 25,638

Shevaroy and Coorachy Hills
but no credit is assigned
for the expenditure shewn
to have been incurred in the
Salem Kistna and Bellary
districts. Demarcation
~~has~~ also ~~been~~ carried on
during the year at the cost
shewn in the margin which
includes the cost of pillars.
Comparing the expenditure
with the quantity of work
performed, it appears that
the average cost per square
mile was Rs. 157-8 in
Chingleput, Rs. 96 in
Ganjam and Rs. 75 in
Coimbatore. These rates
of expenditure are much
in excess of the average
rates

rates at which the Settlement Department conducts demarcation, but the work turned out is probably superior to an proportionate degree. It is 8.

12. ~~A portion of the~~ work in ~~Coimbatore has~~ ~~been rendered necessary by the faulty and in~~ complete demarcation ~~originally carried out~~ in an area of 2,951 square miles is reported ready for Settlement in the Coimbatore district, and five out of the eleven Talugs have now been completed. The Survey of this district should be pressed on ~~with~~ vigorously in order that sufficient

Lt Col. Price regrets the necessity for a material reduction of cost in the Chingleput district in future.

of Settlement operations.

13 Defective demarcation by the Settlement Department in the Cuddapah district is assigned by the Superintendent as a cause of delay in the Survey operations. Mr Bambury has since sent in to the Board an explanation on this point.

14. ... The recovery through the Revenue officers of the advances made for demarcation in Ganjam appears to be slow. The Collectors attention should be called to the subject.

15. The total expenditure during the year by the Survey Department is shown in the margin. The aggregate

Expenditure on Survey executed in the plains	4,24,057-11-4
Do. on the hill Survey Parties & Slovaroy Hills	37,145-0-4
Total expenditure on Demarcation	1,27,534-11-0
Do. in Lithographic Department	16,740-14-0
Total	6,05,478-4-9

aggregate amount spent would appear to be 65,478 from the Tabular statements appended to Colonel Priestley's report, but these are not very clear. The Budget grant for the year was Rs. 6,69,560.

16. Colonel Priestley will in future reports briefly compare the actual and estimated expenditure of the year and explain any marked differences.

14. To the D.J. of New Orleans
15. - the Offg Dep. Register
15. - the Supt of New Survey

No 1234/20

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2722, 2497, 2217, 2126.
1217 & 842 of 1870.
1870 Rev 126-5
Rev 1870 No 227-30
Revenue 1869 -- 881- 2
28 Septr ——— 444 -
" 17 July ——— 577-78
" 17 March ——— 169-15
" 23 Jany ——— 434-5
" 11 Decr 1868 - 165-6
" 5 Novr 1867 - 95- 6
" 9 Septr ——— 160-1
30 Rev. 30 March 70 No 2120
" 5 Novr 69 No 8167
Act XXVI of 1870

Revenue 1870. No 298

Board of Revenue,

MADRAS.

PROCEEDINGS 17TH SEPTEMBER 1870, No. 5,777.

Desp? 27 Sept? 1870
Encl.

Received 28th ditto

SEPTEMBER.

No. 5,777.

Revenue Settlement and Survey operations—in Madras Presidency during 1869-70,—Reports on reviewed and submitted to Government.—Director of Revenue Settlement, requested to report in detail on revision of classification of land in Salem District—Collector of Kurnool, desired to explain cause of large falling off in Settlement demand of Fusly 1279, in certain Talooks, as compared with that of previous Fusly.

Proc? 8th March 1871
123

12 January 1871 Rec? Tel?