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REPORT

ON THE

REVENUE SURVEY

OF THE

Lower Provinces,

FROM

1ST OCTOBER 1854 TO 30TH SEPTEMBER 1855.

•

CALCUTTA:

THOS. JONES, *CALCUTTA GAZETTE* OFFICE.

1856.

FROM

THE OFFG. SECY. TO THE BOARD OF REVENUE,
Lower Provinces,

TO

THE SECY. TO THE GOVT. OF BENGAL,
Revenue Department.

Dated Fort William, the 30th May 1856.

SIR,

By direction of the Board of Revenue, I have the honor to submit

LAND REVENUE.

H. RICKETTS }
and } Esqrs.
J. DUNBAR, }

NOTE.—Mr. Ricketts saw all the papers and passed orders upon them; consequently his name appears to this Report.

- * From Deputy Surveyor General, dated 15th ultimo, No. 36 A., with enclosures.
- From Superintendent, 1st Division, dated 1st December last, No. 783.
- From Superintendent, 2nd Division, dated 10th idem, No. 18.
- From Collector of Burdwan, dated 20th idem, No. 316.
- From Superintendent, 3rd Division, dated 30th October last, No. —.
- From Superintendent, 4th Division, dated 20th November last, No. 314.

- No. 1, Statement of work performed in the four Superintendencies.
- No. 2, Statement showing the condition of the demarcation operations, including Khusrah.
- No. 3, Statement showing the condition of the Registers.
- No. 4, Statement of sums actually drawn by the Superintendents of Survey.

copies of the Annual Reports of the Deputy Surveyor General and of the local Superintendents as per margin,* together with Statements Nos. 1 to 4, exhibiting in one

view the results of the Survey operations of the latter, for the year 1854-55.

2nd. In this Division, 1,381 villages, belonging to Bograh, Pubna and

1ST DIVISION.

Rajshahye, in arrear for khusrah or internal demarcation,

Demarcations.

have been completed during the year. These villages

embraced an area of 39,000 acres, comprised in 24,689 plots. The demarcation of the Pubna villages proved to be more difficult than was anticipated, and the Deputy Collector had to re-demarcate 213 square miles in several villages in different Pergunnahs. At the end of the year, the arrears were reduced to 69 villages in Pubna, those of the other Districts having been brought up.

3rd. The boundary disputes were not numerous—only 338, of which 305 were disposed of. There were 140 appeals from the decisions of the Deputy Collectors, of which 81 were disposed of during the year, the decisions in 70 of these being upheld.

4th. New demarcations were commenced under Mr. Birch's superintendence in Rungpore, in December, by the Deputy Collector Khetter Mohun

Mookerjee, on whose demise Mr. Ryland took charge of the party. In April another Deputy Collector, Hurro Chunder Ghose, took up the circuit allotted to him. The area demarcated and made ready for Survey is estimated at 1,299 square miles, the largest hitherto effected under the new system in any Division, with only one exception.

5th. Twenty-four English and 34 Vernacular Registers were prepared during the year. In Purneah and Rajshahye there were but few left to be completed. The preparation of the Pubna Registers is expected to be a work of some difficulty from the great intermixture of property in that District.

6th. Baboo Issen Chunder Dutt was engaged in finishing off the Pubna arrears; and Ally Ahmed was to take up the Registers of the remaining Rajshahye Pergunnahs. Both these Officers were to reinforce the demarcation parties on the completion of their special duties.

7th. The cost of the season's work is Rupees 73,967-3-10, being at the rate of about Rupees 57 per square mile, besides Rupees 4,758-11-6½ expended in the khusrah arrears from the savings of former years.

8th. Mr. Pemberton commenced operations on the 1st December in Pubna, South of the Ganges, and one Pergunnah on the North which had been left unsurveyed, and returned to his head-quarters at Berhampore on the 12th May following. The area surveyed was 853¾ square miles in 56 Pergunnahs of four different Districts, viz. Pubna, Jessore, Nuddea and Rajshahye. Complaint is made of the insufficient quantity and defective character of the thakbusts, which were on the old system. The state of things in this Division, embarrassed as it was by arrears, and having work to be done in three Districts simultaneously, viz. Purneah, Pubnah and Rajshahye, prevented more attention being given to them, the Board deeming it of greater importance that the Superintendent should give his chief attention to the bringing up of arrears.

9th. The cost of the Survey was Rupees 30,180-14-1, exclusive of Rupees 967-13-10 incurred on Mehalwaree calculations, chargeable to the Civil Department, and on other extraneous expenses, yielding an average per square mile of Rupees 35-5-7, or Rupees 8-14-1 above that of the preceding year. This increase is ascribed to the fact of there being no other work ready for the professional party, and to Mr. O'Donel's return to his post on the breaking up of the Assam party, which taxed the resources of the Division to an unexpected amount. The savings, nevertheless, amounted to Rupees 7,343-1-11 on the annual grant.

10th. The field to be surveyed in the current year lies wholly in Rungpore, where no great difficulties were expected to be met with.

11th. The Bancoorah demarcations were brought to a close during the year under the superintendence of Mr. Reid, comprising
 2ND DIVISION. Demarcations. 900 square miles, a part of which was immediately made over to Captain Gastrell, Surveyor of the 4th Division, to whom the Survey of that District was assigned. A part of the additional Field Establishment recently sanctioned was deputed to commence operations at once in Burdwan, where it was joined from time to time by fresh drafts as they could be spared from Bancoorah. The demarcations were commenced in Burdwan in January by Mr. Reid, in accordance with the experimental system ordered to be introduced by Government. Major Smyth took charge of the work from Mr. Reid, in addition to his professional duties, early in May. The tract demarcated in Burdwan comprised 13 Pergunnahs and about 1,000 square miles. In both Districts the number of plots demarcated was 40,587. Of 627 villages, however, the internal demarcations were left for the ensuing season, the Board being unwilling that the experiment should be embarrassed by a strict observance of the rule which requires the demarcated tract to be in every respect made ready for Survey.

12th. The boundary disputes were numerous, being 1,397 in number, but all were disposed of during the year, except 7. Of 226 appeals, the orders of the Deputy Collectors were upheld in 214, and reversed or modified in 8 cases.

13th. The Registers of six Nuddea Pergunnahs were completed by Mr. Reid, leaving those of seven Pergunnahs only, the Survey of which had only recently been effected, to be compiled; after which the Bancoorah Registers would be commenced upon.

14th. The total cost of the season's work was Rupees 55,561-0-10, which falls on the estimated area of 1,900 square miles demarcated in the two Districts, at the rate of Rupees 29-3-10 per square mile, or only one-half of the rate of the previous season, which is very satisfactory, especially when it is borne in mind that the work was scarcely less difficult, and the average size of the villages not greater than in the previous year.

15th. Major Smyth broke ground on the 6th December in the Northern part of Nuddea, and by the middle of April
 Professional. following, he completed 898 $\frac{1}{4}$ square miles, besides 61 $\frac{1}{2}$ square miles of river circuits. The District of Nuddea being finished, and no demarcations ready in the next District (Burdwan,) the party returned

to head-quarters for the recess. The thakbusts are acknowledged to have been excellent.

16th. The shortness of the season affects unfavorably the comparison of the cost, which amounted to Rupees 29,930-3-7, giving an average of Rupees 31-3-0 per square mile, or Rupees 7-6-9 above that of the previous year. The savings on the annual grant were Rupees 6,779-0-8.

17th. Captain Thuillier, in the 25th para. of his Report, bears testimony to the remarkable accuracy of the work, which, when tested by its connection with the Great Trigonometrical Survey Stations, showed a mean error of only a quarter of a foot per mile. There were no arrears of map work whatever.

18th. The total area of the finished Nuddea District is found to be $3,582\frac{3}{4}$ square miles, of which $45\frac{3}{4}$ are in river circuits. The villages are 4,179 in number, of the average size of a square mile as nearly as possible. A connection has been established, in the course of the Survey, with 14 Stations of the Great Trigonometrical Survey. The cost has been Rupees 1,15,423-13-8, giving a general average of Rupees 32-3-6 per square mile.

19th. The current year's operations, both Survey and Demarcation, will lie wholly in Burdwan, and will be conducted on the experimental system under the sole direction of Major Smyth.

20th. The accumulation of arrears of boundary disputes in this Division necessitated the employment of four Deputy Collectors in disposing of them, including Mr. Pogson temporarily appointed to this duty. It was not till the middle of January therefore that one of the Deputy Collectors, Baboo Brijoosunder Mitter, could be deputed by Mr. Campbell to take the Field for demarcation purposes. He was succeeded in the following month by Baboo Joy Chunder Mojoomdar. The demarcations embraced only 1,388 villages, comprising 18,717 chucks, and an estimated area of 1,100 square miles. The internal plotting was excessive, one village only containing so many as 1,600 plots.

21st. The entire arrear of boundary disputes was disposed of, except 22 cases. Of 1,730 new cases instituted during the year, 515 remained on the file, which could not be decided, owing partly to the disputed boundaries running through swampy ground, and partly to the greater number of the cases being instituted after the Deputy Collector had left for head-quarters. Of 382 cases appealed, the orders were upheld in 317. The great number of disputes in this Division is said to be owing to the rule observed by the

landholders of Mymensingh of claiming the whole of any waste land or swamp which borders on their villages. Similar claims are set up by the landholders of all the bordering villages, and in the absence of any tangible proof on either side, the decision is often very difficult.

22nd. The cost of the work done was Rupees 63,731-4-7, or deducting the pay of two Deputy Collectors engaged solely in the decision of disputes, Rupees 53,280-8-0, which on the estimated area of 1,100 square miles, gives an average of Rupees 48-7-0 per square mile. No entire Registers have as yet been prepared.

23rd. The plans for the current year were to depute two Deputy Collectors, with 60 Ameen, to prepare the Eastern part of Pergunnah Soosung for Survey, comprising about 300 square miles, after which the remainder of that Pergunnah and Pergunnah Sherepore were to be taken up; one Deputy Collector to be employed in finishing the work of last season. In the room of Salamutoollah, removed to another District, the Board have appointed Baboo Frankissen Roy to this Division. Mr. Muspratt took charge of the Division from Mr. Campbell in June last.

24th. Mr. Wyatt took the field in December, and remained out till the end of May. During this period of six months, 1,081 Professional. square miles were completed in 19 Pergunnahs of four different Districts.

25th. The expenditure, after deducting Rupees 1,006 incurred on calculations chargeable to the Civil branch, and the Surveyor's personal allowance of Rupees 100 per mensem, (which the Board think should have been charged to the Department,) was Rupees 34,144-14-6, giving an average of Rupees 31-9-3 per square mile, being Rupees 2-14-1 less than that of the previous year. The savings of the year amounted to Rupees 2,373-1-6. In the current year, from 1200 to 1300 square miles is expected to be accomplished, including the portion of Pergunnah Soosung under demarcation.

26th. The difficulties and delays complained of in the Deputy Surveyor General's 37th and 38th paras. are not, as Captain Thuillier concludes, the consequence of any "grand mistake" in the Board's plan, but the result of innumerable boundary disputes, which it has been found impossible always to adjust before the professional survey comes up. Every endeavor has been made to expedite the adjustment of disputes. Additional agency has been granted for the purpose, and a more summary system of deciding disputes, as mentioned in para. 25 of the Board's last Report, has been authorized. It has moreover been pointed out to the Superintendent, that village boundaries must be adjusted a-head of the Survey, although internal boun-

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 daries might be allowed to lie over for future adjustment. It was also intimated to the Superintendent, that he had perhaps carried the system of demarcation too far, by demarcating some very intricate villages which would better have been measured by khusrah. The mistake, if there was any, does not show the system to be wrong, but Captain Thuillier overlooks the proofs of its efficiency contained in the very para. in which he condemns it. No less than 10,350 separate blocks were demarcated under the system, and on comparison with the professional work, the greatest error in excess in any one block was found to be only 1 beegah 14 cottahs, and the greatest error in defect 5 beegahs 19 cottahs. Captain Thuillier admits this to be "very satisfactory," and unquestionably it is so, for under the old system all these villages would have been measured by khusrah, at an enormous expense, and after much delay, and the maps, instead of being intelligible to every body, would have been just the reverse. The simple fact of the case is that the disputes were so numerous, that it was impossible to avoid the occurrence of arrears, and hence the confusion on which so much stress is laid. Mr. Campbell, the Superintendent, was not to blame.

27th. The Revenue Surveyor of this Division being engaged in
 4TH DIVISION. Bancoorah, which had been demarcated by the Superintend-
 Demarcations. ent of the 2nd Division, a part of Mr. Watson's Estab-
 lishment was temporarily transferred to the 4th Division to aid Mr. Birch in Bograh and Rungpore. The remainder were employed under Mr. Watson on the registry work of Moorshedabad till January, when Deputy Collector Ahsan Ahmed, with 3 Peshkars and 20 Ameens, proceeded to Jessore to prepare a field for the Surveyor. But when Captain Gastrell announced his intention to commence upon Jessore at the opening of the season 1855-56, it became necessary for Mr. Watson to raise his Establishment to the strength of 8 Peshkars and 80 Ameens, and to depute Baboo Tarucknath Ghose to the same field, who accordingly joined the other Deputy Collector at the end of March, and the field operations were carried on till the latter part of July.

28th. The tract prepared for Survey in Jessore contained 670 square miles, which, with the field in Bancoorah, was deemed sufficient to give the Surveyor full occupation. Though the internal plotting in Jessore was not so excessive as in Moorshedabad, yet the number of chucks was no less than 29,283.

29th. Of 241 boundary disputes on the file, the whole, with one exception, have been disposed of. The number of appeals, including a few miscellaneous cases, was 63, of which 52 were decided, and in 40 of these the orders were upheld. Of seven cases appealed to the Commissioner, the orders of the Superintendent were confirmed in six.

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 30th. The expenditure amounted to Rupees 45,629-10-5, as shown in the annexed Statement No. 4, being Rupees 10,908-13-11 less than in the previous year, giving an average per square mile of Rupees 68-1-8, a rate higher than in the other Divisions for the reasons specified in para. 27, whereby the whole expense had to be set against a smaller area than would otherwise have been accomplished.

31st. The Registers of 2 Bhaugulpore and 19 Moorshedabad Pergunnahs have been completed, besides 4 belonging to Beerbhoom, completing the registry work of that District. The registry work of Bhaugulpore has also since been finished. The progress of registry work in this Division is very satisfactory.

32nd. The demarcation of Jessore will continue to occupy the Establishment during the current year.

33rd. In August Captain Gastrell was remanded to his Regiment in consequence of the Sonthal insurrection, and did not rejoin the Survey till the close of January following. The Establishment however took the field in two parties, one under Mr. R. Smith, an Assistant on the Establishment, on the 18th November, in Bancoorah, and the other, under Mr. Bradley, another Assistant, on the 27th of the same month, for the Survey of the remaining portion of Moorshedabad. The field measurements continued up to 9th June and 1st May respectively, the two parties having surveyed in the interval in both Districts 1,144 $\frac{1}{4}$ square miles, including three river circuits of 45 $\frac{1}{4}$ square miles. The thakbust maps of Moorshedabad were considered well got up, while those of Bancoorah, Captain Thuillier says in his 45th para., were "the source of much annoyance and extra labor to the Revenue Surveyor." The preparation of these maps however must, the Board observe, have been attended with immense difficulties, seeing that no less than 74,953 separate Estates had to be demarcated. The Board were well aware of the very intricate work which the demarcation of the Ghatwallee tenures would offer, and it is an agreeable surprise to them to find that the difficulties have been overcome at the cost only of some additional annoyance and labor to the Surveyor.

Professional.
 See para. 11 of last Report.

34th. The cost of surveying 382 $\frac{3}{4}$ square miles in the now completed District of Moorshedabad is Rupees 10,559-14-0, or 27-9-5 per square mile, and that of 761 $\frac{1}{2}$ square miles in Bancoorah, Rupees 20,178-5-1 $\frac{1}{4}$, yielding an average of Rupees 26-7-10 per square mile. The total expenditure of Rupees 31,827-3-1 $\frac{1}{2}$ gives an average of Rupees 26-13-9, exclusive of the area of the river circuits, being slightly in advance of the previous year's average. The savings of the year amounted to Rupees 5,696-12-10 $\frac{1}{2}$.

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35th. The small amount of mean error, 0,18 feet per mile, found by connection with the Great Trigonometrical Survey Stations, to which reference is made in the Deputy Surveyor General's 44th para., affords strong confirmation of the accuracy of Captain Gastrell's work. No less than 74,953 minor Estates were triangulated for area, and entered in the Registers, comprising an area of $252\frac{3}{4}$ square miles executed at a cost of Rupees 1,089-0-0.

36th. The field of the current year's operations is in Jessore.

37th. The party in Assam was broken up at the commencement of the season, and drafted into the other Divisions. The expense incurred on account of the remnant of the Establishment, whose work detained them for three months of the season, was Rupees 2,485-13-1.

38th. In Arracan the season was entirely blank as to work, owing to the state of Mr. Porteous's health and his incapacity to contend with local difficulties. The only Sub-Assistant, Mr. W. H. Pringle, made an attack of illness a pretext for neglecting all work, and thus an expense of Rupees 12,371-11-3 was incurred without any compensating result. Mr. Porteous is absent on leave, and Mr. Pringle has been dismissed with the approval of the Board. A proper party of the full strength has been organized under Mr. O'Donel. Should this year prove a failure, the Board are disposed to propose the abandonment of the Survey till the country is more cleared, and consequently rendered more healthy and better fitted for rapid operations.

39th. The following Memorandum shows at one view the area accomplished in the four Bengal Divisions, with the rate of cost in the past two years :—

DIVISIONS.	AREA SURVEYED.		RATE PER SQUARE MILE.		Increase or Decrease of Area.	Increase or Decrease of Cost.
	1853-54.	1854-55.	1853-54.	1854-55.		
1st Division, - -	1000 $\frac{3}{4}$	853 $\frac{3}{4}$	26 7 6	35 5 7	- 147	+ 8 14 1
2nd Ditto, - . -	1219 $\frac{1}{2}$	959 $\frac{1}{2}$	23 12 3	31 3 0	- 260	+ 7 6 9
3rd Ditto, . - -	864	1081	34 7 4	31 9 3	+ 217	- 2 14 1
4th Ditto, - - -	1161 $\frac{1}{4}$	1144 $\frac{1}{4}$	25 6 11	26 13 9	- 17	+ 1 6 10

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40th. The comparison is unfavorable in two Divisions, but it is to be borne in mind, that the arazees, or detached portions of Estates, must influence both cost and progress in proportion to their number and size. In his 4th para. the Deputy Surveyor General gives the number at 94,881, which had to be separately demarcated and shown in the maps. As the Survey advances into Bengal, these isolated patches are found in increasing numbers. The general average per square mile, including the cost of the abortive operations in Arracan, as shown in Captain Thuillier's 5th para., is increased by Rupees 4-14-2, or by about one-sixth.

41st. The 51st and following paras. of the Deputy Surveyor General's Report relate to the Departments of his own Office, on which the Board will make no remarks further than to observe that a vast amount of work appears to have been most ably executed. They are strongly impressed with the conviction, that Captain Thuillier's hands ought to be strengthened by the appointment of an Officer to relieve him of some portion of the superintendence of so large an Office. His services are invaluable to the Department, and the Board do not think it out of place to remark here, with reference to the value of those services, that they consider his present remuneration inadequate.

42nd. The Revenue Surveyors appear to have conducted their proceedings to Captain Thuillier's satisfaction. Of their Assistants, Mr. O'Donel, who has been promoted to the charge of the Arracan Survey, and Messrs. Davey and Smart are specially commended. The Board will intimate to Captain Thuillier their confirmation of the promotions proposed in his 18th, 32nd and 40th paras. as follows :—

1st Division.—Messrs. R. Smith and J. R. Pringle, from 200 to 250 Rupees.

2nd Division. { Mr. N. T. Davey, from 250 to 300 Rupees.
Mr. W. Ivey, from 225 to 250 Rupees.

3rd Division. { Mr. W. Davey, from 175 to 200 Rupees.
Mr. H. M. Smith, from 175 to 200 Rupees.
Mr. J. K. Moran, from 100 to 150 Rupees.

Captain Thuillier speaks in high terms of the late Mr. Daniell, his Head Assistant. Mr. W. R. M. Graham is also well spoken of.

43rd. In the Civil branch, the Superintendents generally have performed their duties with efficiency. Mr. Birch, who has left the Department, will not, the Board fear, be easily replaced. Of Mr. Reid, whose office as Controller became extinct in May last, the Board deem it incumbent upon them to say that he invariably gave them satisfaction, and that his industry

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 and careful attention to the details of the system have been productive of many advantages to the Department. He is an Officer in whose judgment, in all matters connected with the Survey, the Board have every confidence.

44th. Favorable mention is made in the Reports of the Superintendents of the following subordinate Officers :—

1st Division.—Baboos Issenchunder Dutt and Hurrochunder Ghose, Mr. Ryland and Moulvie Ally Ahmed.

2nd Division.—Baboos Doorgapershad Ghose and Tarachand Ghose.

3rd Division.—Baboos Joychunder Moojoomdar and Brijsoonder Mitter.

4th Division.—Baboo Tarucknath Ghose and Ahsan Ahmed Khan.

45th. The Board's separate letter of this date submits the Report called for by Under-Secretary Mr. Hodgson Pratt's letter of the 21st May 1855, No. 242, relative to the benefits which have resulted from the Survey Records in those Districts which have come under Survey.

I have the honor to be,

SIR,

Your most obedient Servant,

E. T. TREVOR,

Officiating Secretary.

STATEMENT of Work performed in the Four Superintendencies, from October 1854 to September 1855.

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1. NAMES OF DIVISIONS.	2. Names of Districts in which operations are in progress.	3. Names of Officers.	4. Number of Villages demarcated as shown in Statement No. 2, Column 4.	5. Number of completed Thakbusts made over to the Surveyor.	6. Boundary Disputes.			7. Izad and Adumishan Cases.			8. Duplicates of Maps.			9. Miscellaneous Cases not embraced in the foregoing Columns.			10. Appeals from the decisions of the Deputy Collectors.			REMARKS.																																							
					On the file during the year.	Disposed of.	Pending.	On the file during the year.	Disposed of.	Pending.	On the file during the year.	Disposed of.	Pending.	On the file during the year.	Disposed of.	Pending.	On the file during the year.	Disposed of.	Pending.																																								
DIVISION. Purneah, ... Rungpore, ... Pubnah, ... Rajshahye, ... Bograh, ...	Mr. E. G. Birch, Superintendent, from 1st October 1854 to 9th July 1855, ... Mr. J. Watson, Superintendent, from 10th July to 30th September 1855, ... Mr. G. G. Morris, Assistant Superintendent, from 1st October 1854 to June 1855, ... Baboo Khetter Mohun Mookerjee, Deputy Collector, from 1st October to 31st July 1855, ... Mr. W. H. Ryland, Deputy Collector, from 1st August to 30th September 1855, ... Baboo Issenchunder Dutt from October 1854 to September 1855, ... Moolvee Ally Ahmed from ditto to ditto, ... Baboo Hurrochunder Ghose from 20th November 1854 to ditto, ...	0	0	0	0	0	0	2	319	319	0	995	549	205	140	36	A. Of the appeals 130 were instituted during the year, and 10 belonged to previous years. The 81 cases decided were disposed of as follows:— <table border="1"> <thead> <tr> <th>Names of Officers.</th> <th>Order up-held.</th> <th>Order reversed.</th> <th>Modified.</th> <th>Restored to file.</th> <th>T</th> </tr> </thead> <tbody> <tr> <td>Baboo Radhanath Bose, Deputy Collector, ...</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td></td> </tr> <tr> <td>Baboo Khettermohun Mookerjee, Deputy Collector, ...</td> <td>31</td> <td>4</td> <td>0</td> <td>2</td> <td></td> </tr> <tr> <td>Baboo Issenchunder Dutt, Deputy Collector, ...</td> <td>17</td> <td>1</td> <td>0</td> <td>0</td> <td></td> </tr> <tr> <td>Baboo Ally Ahmed, Deputy Collector, ...</td> <td>12</td> <td>0</td> <td>0</td> <td>1</td> <td></td> </tr> <tr> <td>Baboo Hurrochunder Ghose, Deputy Collector, ...</td> <td>8</td> <td>3</td> <td>0</td> <td>0</td> <td></td> </tr> <tr> <td>Total, ...</td> <td>76</td> <td>8</td> <td>0</td> <td>3</td> <td></td> </tr> </tbody> </table>	Names of Officers.	Order up-held.	Order reversed.	Modified.	Restored to file.	T	Baboo Radhanath Bose, Deputy Collector, ...	2	0	0	0		Baboo Khettermohun Mookerjee, Deputy Collector, ...	31	4	0	2		Baboo Issenchunder Dutt, Deputy Collector, ...	17	1	0	0		Baboo Ally Ahmed, Deputy Collector, ...	12	0	0	1		Baboo Hurrochunder Ghose, Deputy Collector, ...	8	3	0	0		Total, ...	76	8	0	3	
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581	0	86	64	22	166	140	16	907	657	250	267	57	0	0	0																																												
Total, ...	2212	1172	338	305	33	882	760	122	2725	2265	460	3233	2743	495	A. 140	81	59																																										
DIVISION. Bancoorah, ... Burdwan, ...	Mr. H. M. Reid, Collector of Burdwan, ... Major R. Smyth, Superintendent of Survey, ... Baboo Doorgapersad Ghose, Deputy Collector, ... Baboo Tarachaund Ghose, Deputy Collector, ...	0	1171	25	25	0	273	273	0	778	610	168	175	167	8	347	226	121	B. Of the appeals pending during the year, 233 were instituted in the course of year, the remainder belonged to the previous year. The following are the details of the Cases disposed of:— <table border="1"> <thead> <tr> <th>Names of Officers.</th> <th>Order up-held.</th> <th>Order reversed.</th> <th>Modified.</th> <th>Returned for revision.</th> <th>T</th> </tr> </thead> <tbody> <tr> <td>Doorgapersad Ghose, Deputy Collector, ...</td> <td>105</td> <td>1</td> <td>2</td> <td>4</td> <td></td> </tr> <tr> <td>Tarachaund Ghose, Deputy Collector, ...</td> <td>109</td> <td>2</td> <td>3</td> <td>0</td> <td></td> </tr> <tr> <td>Total, ...</td> <td>214</td> <td>3</td> <td>5</td> <td>4</td> <td></td> </tr> </tbody> </table>	Names of Officers.	Order up-held.	Order reversed.	Modified.	Returned for revision.	T	Doorgapersad Ghose, Deputy Collector, ...	105	1	2	4		Tarachaund Ghose, Deputy Collector, ...	109	2	3	0		Total, ...	214	3	5	4																	
		Names of Officers.	Order up-held.	Order reversed.	Modified.	Returned for revision.	T																																																				
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0	0	0	0	0	0	0	0	0	0	0	81	59	22	0	0	0																																											
2059	443	906	900	6	188	188	0	1539	876	663	419	414	5	0	0																																												
1777	249	466	465	1	89	89	0	1674	685	889	1067	1050	17	0	0																																												
Total, ...	3836	1863	1397	1390	7	550	550	0	3891	2171	1720	1742	1690	52	B. 347	226	121																																										
DIVISION. Mymensing, ...	Mr. C. H. Campbell, Superintendent, from 1st October 1854 to 6th June 1855, ... Mr. H. Muspratt, ditto, from 7th June to 30th September 1855, ... Mr. H. Muspratt, Assistant Superintendent, from 22nd February to 6th June 1855, ... Mr. W. R. Pogson, Deputy Collector, from 1st December 1854 to 15th June 1855, ... Salamut Ollah, Deputy Collector, from 1st October 1854 to 1st July 1855, ... Baboo Brijsoonder Mitter, Deputy Collector, from ditto to 30th September 1855, ... Joychunder Moojoomdar, from ditto to ditto, ...	0	1902	350	344	0	12	0	0	0	0	0	362	0	745	112	0	C. Of these 382 were appeals from the decisions of Deputy Collectors in boundary 275 having been brought on during the year, and 107 belonging to the previous year. They were thus disposed of. There were besides 26 miscellaneous appeals. <table border="1"> <thead> <tr> <th>Names of Officers.</th> <th>Order up-held.</th> <th>Order reversed.</th> <th>Modified.</th> <th>Returned for revision.</th> </tr> </thead> <tbody> <tr> <td>Mr. E. D'Rozario, Deputy Collector, ...</td> <td>30</td> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>Mr. W. R. Pogson, Deputy Collector, ...</td> <td>67</td> <td>6</td> <td>1</td> <td>9</td> </tr> <tr> <td>Salamut Ollah, Deputy Collector, ...</td> <td>57</td> <td>10</td> <td>1</td> <td>4</td> </tr> <tr> <td>Joychunder Moojoomdar, Deputy Collector, ...</td> <td>122</td> <td>6</td> <td>6</td> <td>4</td> </tr> <tr> <td>Brijsoonder Mitter, Deputy Collector, ...</td> <td>40</td> <td>7</td> <td>1</td> <td>8</td> </tr> <tr> <td>Abdool Hameed, Deputy Collector, ...</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>Total, ...</td> <td>317</td> <td>30</td> <td>10</td> <td>25</td> </tr> </tbody> </table>	Names of Officers.	Order up-held.	Order reversed.	Modified.	Returned for revision.	Mr. E. D'Rozario, Deputy Collector, ...	30	0	1	0	Mr. W. R. Pogson, Deputy Collector, ...	67	6	1	9	Salamut Ollah, Deputy Collector, ...	57	10	1	4	Joychunder Moojoomdar, Deputy Collector, ...	122	6	6	4	Brijsoonder Mitter, Deputy Collector, ...	40	7	1	8	Abdool Hameed, Deputy Collector, ...	1	1	0	0	Total, ...	317	30	10	25	
		Names of Officers.	Order up-held.	Order reversed.	Modified.	Returned for revision.																																																					
		Mr. E. D'Rozario, Deputy Collector, ...	30	0	1	0																																																					
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Total, ...	317	30	10	25																																																							
0	239	2	2	4	0	12	0	0	1542	0	386	8	16	296	337																																												
54	0	27	27	0	0	0	0	0	0	0	0	0	0	0	0																																												
0	0	211	211	0	0	0	0	0	0	0	1	1	0	0	0																																												
0	0	201	201	0	0	0	0	0	0	0	95	95	0	0	0																																												
732	0	1304	786	518	0	0	0	0	0	0	524	476	48	0	0																																												
602	0	698	683	15	0	0	0	0	0	0	364	313	51	0	0																																												
Total, ...	1388	2141	2791	2254	537	12	12	0	0	1542	0	1370	1255	115	C. 408	337																																											
Bhangulpore,)	Mr. J. Watson, Superintendent, from October 1854 to 30th September 1855, ...	0	972	3	3	0	206	62	144	2	2	0	992	880	112	63	52	11	D. Thirty-two of these were instituted during the year and 20 remained over the previous year. Nine were miscellaneous cases and 43 boundary cases. The following Statement shows the result of the decisions:—																																								

No. 2.

78-A1 STATEMENT showing the condition of the Demarcation Operations including Khusreh in the Four Superintendencies, from October 1854 to September 1855. 78

1. Names of Divisions.	2. Incomplete Villages remaining from last year.	3. Villages taken up during the year.	4. Completed externally and internally during the year.			5. Remaining in hand to be carried to next year.	REMARKS.															
1st or Northern Division, ..	0	3411	2212			1199	<table border="1"> <thead> <tr> <th>Names of Officers.</th> <th>Villages.</th> <th>Plots and Daghs.</th> </tr> </thead> <tbody> <tr> <td>By Khettermohun Mookerjee,</td> <td>1305</td> <td>1988</td> </tr> <tr> <td>„ Hurrochunder Ghose,</td> <td>581</td> <td>267</td> </tr> <tr> <td>„ Issenchunder Dutt,</td> <td>326</td> <td>8189</td> </tr> <tr> <td>Total,</td> <td>2212</td> <td>10444</td> </tr> </tbody> </table>	Names of Officers.	Villages.	Plots and Daghs.	By Khettermohun Mookerjee,	1305	1988	„ Hurrochunder Ghose,	581	267	„ Issenchunder Dutt,	326	8189	Total,	2212	10444
Names of Officers.	Villages.	Plots and Daghs.																				
By Khettermohun Mookerjee,	1305	1988																				
„ Hurrochunder Ghose,	581	267																				
„ Issenchunder Dutt,	326	8189																				
Total,	2212	10444																				
2nd or Southern Division, ..	1	3835	3828			8	<p>The Villages partly demarcated and partly measured by Khurseh, and the Villages internally demarcated were disposed of as follows :—</p> <table border="1"> <thead> <tr> <th>Names of Officers.</th> <th>Villages.</th> <th>Plots and Daghs.</th> </tr> </thead> <tbody> <tr> <td>By Doorgapersad Ghose,</td> <td>1484</td> <td>17222</td> </tr> <tr> <td>„ Tarachand Ghose,</td> <td>1373</td> <td>23365</td> </tr> <tr> <td>Total,</td> <td>2857</td> <td>40587</td> </tr> </tbody> </table> <p>The discrepancy in the number of Villages, compared with Column 4, is explained in para. 5, of Major Smyth's Report, No. 18, dated 10th December 1855.</p>	Names of Officers.	Villages.	Plots and Daghs.	By Doorgapersad Ghose,	1484	17222	„ Tarachand Ghose,	1373	23365	Total,	2857	40587			
Names of Officers.	Villages.	Plots and Daghs.																				
By Doorgapersad Ghose,	1484	17222																				
„ Tarachand Ghose,	1373	23365																				
Total,	2857	40587																				
3rd or Eastern Division, ..	26	1595	1388 A.			233	<p>A. By Mr. Muspratt, 54 Villages comprised in 46 Maps. „ Brijosoonder Mitter, 732 ditto ditto in 601 ditto. „ Joychunder Mojoomdar, 602 ditto ditto in 508 ditto.</p> <p style="text-align: right;">Total, 1388 1155 ditto.</p> <p>B. By Mr. Muspratt, 54 Villages containing 694 Chucks. „ Brijosoonder Mitter, 428 ditto ditto 13224 ditto. „ Joychunder Mojoomdar, 279 ditto ditto 4799 ditto.</p> <p style="text-align: right;">Total, 761 18717 ditto.</p>															
4th or Western Division, ..	0	1084	1084			0	<p>The Villages demarcated during the season were disposed of as follows :—</p> <table border="1"> <thead> <tr> <th>Names of Officers.</th> <th>Total number of Hulkas and Villages demarcated by each Deputy Collector.</th> <th>By Khusreh.</th> <th>By internal Plotting.</th> <th>By external Demarcation.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Names of Officers.	Total number of Hulkas and Villages demarcated by each Deputy Collector.	By Khusreh.	By internal Plotting.	By external Demarcation.										
Names of Officers.	Total number of Hulkas and Villages demarcated by each Deputy Collector.	By Khusreh.	By internal Plotting.	By external Demarcation.																		

No. 4.

STATEMENT of Sums actually drawn by the Superintendents of Survey, from October 1854 to September 1855.

80-A1

1. MONTHS.	2. Superintendent of Survey's Salary.	3. Covenanted Assistant's Salary.	4. Uncovenanted Deputy Collector's Salary, including Office Establishment.	5. Superintendent's Deputation Allowance while Officiating.	6. Covenanted Assistant's Deputation allowance while officiating.	7. Uncovenanted Deputy Collector's Deputation allowance while officiating.	8. Superintendent's Office Establishment.	9. Assistant Superintendent's Office Establishment.	10. Extra Establishment under Deputy Collector.	11. Extra Establishment under the Superintendent.	12. Extra Establishment under the Assistant Superintendent.	13. Office Rent.	14. Field Establishment.	15. Contingent Charges.	16. Ticca and Muzcooree Pealdas.	17. Total.	REMARKS.
October 1854,	4500 0 0	700 0 0	5341 4 1	0 0 0	0 0 0	0 0 0	1347 15 3	100 0 0	450 0 0	480 0 0	0 0 0	242 0 0	2785 10 11 $\frac{1}{2}$	320 10 2	99 4 0	16366 12 5 $\frac{1}{2}$	<p>PARTICULARS OF CONTINGENT CHARGES I</p> <p><i>A. 1st or Northern Division.</i></p> <p>Superintendent's Office Contingencies, ... 500 1 0 Ditto Stationery, ... 219 9 9$\frac{1}{2}$ Assistant's Office Contingencies, ... 130 7 8 Ditto Stationery, ... 100 14 2 Feed of Government and hired Elephants, 1082 6 0 From Deputy Collector's Contingencies, 683 4 6$\frac{1}{2}$</p> <hr/> <p>Superintendent's Travelling Allowances, 590 0 0 Ditto Establishment ditto, ... 807 15 1$\frac{1}{2}$ Assistant Superintendent's ditto, ... 1115 0 0 Ditto Establishment ditto, ... 222 1 3 Four Deputy Collector's ditto, ... 2973 0 0 Ditto Establishment ditto, ... 818 12 0$\frac{1}{2}$</p> <hr/> <p>Total Company's Rupees... ..</p> <p><i>B. 2nd or Southern Division</i></p> <p>Superintendent's Contingencies, ... 735 11 4 Ditto Stationery, ... 98 0 6 Feed of Government Elephants, ... 770 9 4 Two Deputy Collector's Contingencies, 153 14 2</p> <hr/> <p>Superintendent's Amlah Travelling Allowances, ... 473 13 9 Two Deputy Collector's ditto, ... 1605 0 0 Ditto Amlah ditto, ... 438 2 7</p> <hr/> <p>Total Company's Rupees... ..</p> <p><i>C. 3rd or Eastern Division</i></p> <p>Superintendent's Contingencies, ... 1328 14 6 Uncovenanted Deputy Collector's ditto, 731 6 9</p> <hr/> <p>Superintendent's Travelling Allowances, 865 0 0 Assistant Superintendent's ditto, ... 350 0 0 Deputy Collector's ditto, ... 2112 0 0 Superintendent's Establishment ditto, ... 465 3 11 Assistant Superintendent's ditto ditto, ... 47 8 1 Deputy Collector's ditto ditto, ... 679 10 10</p> <hr/> <p>Total Company's Rupees... ..</p> <p><i>D. 4th or Western Division</i></p> <p>Superintendent's Contingencies, ... 354 8 4 Stationery, ... 434 1 5 Feed of Government Elephants, ... 252 5 2 Two Deputy Collector's Contingencies, .. 128 4 1</p>
November "	4500 0 0	700 0 0	4705 0 0	0 0 0	0 0 0	0 0 0	1364 0 0	100 0 0	500 0 0	480 0 0	0 0 0	242 0 0	2950 10 6	1086 1 7 $\frac{1}{2}$	126 2 0	16753 14 1 $\frac{1}{2}$	
December "	4500 0 0	925 12 10	5400 0 0	0 0 0	0 0 0	0 0 0	1357 7 1	100 0 0	550 0 0	276 2 0	0 0 0	209 0 0	4834 15 2	2613 11 6 $\frac{1}{2}$	192 14 0	20959 14 7 $\frac{1}{2}$	
January 1855,	4548 6 2	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	1362 4 0	100 0 0	550 0 0	358 0 0	0 0 0	209 0 0	5997 4 1	3260 7 2 $\frac{1}{2}$	472 2 0	23457 7 5 $\frac{1}{2}$	
February "	5000 0 0	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	1359 0 0	119 9 0	550 0 0	412 0 0	0 0 0	209 0 0	6431 3 7	2742 12 0	237 8 0	23661 0 7	
March "	5000 0 0	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	1363 8 0	192 11 10	550 0 0	361 0 0	0 0 0	205 13 0	7397 15 3	3026 4 2	240 6 0	24937 10 3	
April "	5000 0 0	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	1357 14 0	138 10 7	500 0 0	0 0 0	0 0 0	200 0 0	6934 15 6	2667 5 11	229 8 0	23628 6 0	
May "	3654 13 4	1200 0 0	5493 8 9	0 0 0	0 0 0	0 0 0	1345 6 7	137 6 3	600 0 0	0 0 0	0 0 0	200 0 0	6346 6 10	2297 6 4	256 14 0	21531 14 1	
June "	3700 0 0	500 0 0	5175 0 0	0 0 0	0 0 0	0 0 0	1367 12 0	106 12 3	570 2 0	377 2 6	0 0 0	200 0 0	5241 13 1	2053 1 5	190 12 0	19472 7 3	
July "	3699 15 11	80 10 3	4616 2 0	0 0 0	0 0 0	0 0 0	1368 0 0	75 0 0	301 9 9	617 14 0	0 0 0	208 11 3	4424 4 6 $\frac{1}{2}$	1400 3 1 $\frac{1}{2}$	199 2 0	17191 8 10	
August "	3700 0 0	0 0 0	4187 1 6	0 0 0	0 0 0	0 0 0	1392 3 1	75 0 0	500 0 0	706 15 8	0 0 0	221 10 8	4415 3 1 $\frac{1}{2}$	741 6 6	134 1 3	16073 9 9 $\frac{1}{2}$	
September "	3306 10 8	0 0 0	4220 0 0	0 0 0	0 0 0	0 0 0	1393 0 0	0 0 0	500 0 0	0 0 0	0 0 0	278 0 0	4642 3 10	387 11 3	127 0 6	14854 10 3	
Total drawn for each Class, }	51109 14 1	8906 7 1	60738 0 4	0 0 0	0 0 0	0 0 0	16378 6 0	1245 1 11	6321 11 9	4069 2 2	0 0 0	2625 2 11	62402 10 5 $\frac{1}{2}$	22597 1 2 $\frac{1}{2}$	2495 9 9	238889 3 8	
Total passed for each Class, }	51503 3 5	8906 7 1	60738 0 4	0 0 0	0 0 0	0 0 0	16562 3 1	1398 5 0	6321 11 9	4767 2 0	0 0 0	2625 2 11	63789 2 6	22597 1 2 $\frac{1}{2}$	2195 9 9	241704 1 4 $\frac{1}{2}$	
Total Savings to Government, ... }	393 5 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	183 13 1	153 3 5	0 0 0	697 15 10	0 0 0	0 0 0	1386 8 0 $\frac{1}{2}$	0 0 0	0 0 0	2814 13 8 $\frac{3}{4}$	

Of the above Statement the following Table exhibits the Expense under each Class, and the Savings to Government.

1. DIVISIONS.	2. Superintendent's Salary.	3. Covenanted Assistant's Salary.	4. Uncovenanted Deputy Collector's Salary, including Establishment.	5. Superintendent's Establishment.	6. Superintendent's Establishment.	7. Assistant Superintendent's Establishment under Deputy Collectors.	8. Assistant Superintendent's Establishment under Superintendent.	9. Assistant Superintendent's Establishment under Assistant.	10. Office Rent.	11. Office Establishment.	12. Contingent Charges.	13. Ticca and Muzcooree Pealdas.	14. Office Expenses.	15. Office Savings.
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November ..	4500 0 0	700 0 0	4705 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1364 0 0	100 0 0	550 0 0	276 2 0	209 0 0	2950 10 6	1086 1 7	126 2 0	16753 14 1
December ..	4500 0 0	925 12 10	5400 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1357 7 1	100 0 0	550 0 0	276 2 0	209 0 0	4834 15 2	2613 11 6	192 14 0	20959 14 7
January 1855,	4548 6 2	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1362 4 0	100 0 0	550 0 0	358 0 0	209 0 0	5997 4 1	3260 7 2	472 2 0	23457 7 5
February ..	5000 0 0	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1359 0 0	119 9 0	550 0 0	412 0 0	209 0 0	6431 3 7	2742 12 0	237 8 0	23661 0 7
March ..	5000 0 0	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1363 8 0	192 11 10	550 0 0	361 0 0	205 13 0	7397 15 3	3026 4 2	240 6 0	24937 10 3
April ..	5000 0 0	1200 0 0	5400 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1357 14 0	138 10 7	500 0 0	0 0 0	200 0 0	6934 15 6	2667 5 11	229 8 0	23628 6 0
May ..	3654 13 4	1200 0 0	5493 8 9	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1345 6 7	137 6 3	600 0 0	0 0 0	200 0 0	6346 6 10	2297 6 4	256 14 0	21531 14 1
June ..	3700 0 0	500 0 0	5175 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1367 12 0	106 12 3	570 2 0	377 2 6	200 0 0	5241 13 1	2053 1 5	190 12 0	19472 7 3
July ..	3699 15 11	80 10 3	4616 2 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1368 0 0	75 0 0	301 9 9	617 14 0	208 11 3	4424 4 6	1400 3 1	199 2 0	17191 8 10
August ..	3700 0 0	0 0 0	4187 1 6	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1392 3 1	75 0 0	500 0 0	706 15 8	221 10 8	4415 3 1	741 6 6	134 1 3	16073 9 9
September ..	3306 10 8	0 0 0	4220 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1393 0 0	0 0 0	500 0 0	0 0 0	278 0 0	4642 3 10	387 11 3	127 0 6	14854 10 3
Total drawn for each Class,	51109 14 1	8906 7 1	60738 0 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	16378 6 0	1245 1 11	6321 11 9	4069 2 2	2625 2 11	62402 10 5	22597 1 2	2495 9 9	238889 3 8
Total passed for each Class,	51503 3 5	8906 7 1	60738 0 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	16562 3 1	1398 5 0	6321 11 9	4767 2 0	2625 2 11	63799 2 6	22597 1 2	2495 9 9	241704 1 4
Total Savings to Government,	393 5 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	183 13 1	153 3 5	0 0 0	697 15 10	0 0 0	1386 8 0	0 0 0	0 0 0	2814 13 8

A. 1st or Northern Division.

Superintendent's Office Contingencies, ...	500 1 0
Ditto Stationery, ...	219 9 9
Assistant's Office Contingencies, ...	130 7 8
Ditto Stationery, ...	100 14 2
Feed of Government and hired Elephants,	1082 6 0
From Deputy Collector's Contingencies,	683 4 6
Total	2716 11
Superintendent's Travelling Allowances,	590 0 0
Ditto Establishment ditto, ...	807 15 1
Assistant Superintendent's ditto, ...	1115 0 0
Ditto Establishment ditto, ...	222 1 3
Four Deputy Collector's ditto, ...	2973 0 0
Ditto Establishment ditto, ...	618 12 0
Total	6526 11

Total Company's Rupees... ..

B. 2nd or Southern Division.

Superintendent's Contingencies, ...	735 11 4
Ditto Stationery, ...	98 0 6
Feed of Government Elephants, ...	770 9 4
Two Deputy Collector's Contingencies,	153 14 2
Total	1758
Superintendent's Amlah Travelling Allowances, ...	473 13 9
Two Deputy Collector's ditto, ...	1605 0 0
Ditto Amlah ditto, ...	438 2 7
Total	2517

Total Company's Rupees... ..

C. 3rd or Eastern Division.

Superintendent's Contingencies, ...	1328 14 6
Uncovenanted Deputy Collector's ditto,	731 6 9
Total	2060
Superintendent's Travelling Allowances,	865 0 0
Assistant Superintendent's ditto, ...	350 0 0
Deputy Collector's ditto, ...	2112 0 0
Superintendent's Establishment ditto, ...	465 3 11
Assistant Superintendent's ditto ditto, ...	47 8 1
Deputy Collector's ditto ditto, ...	679 10 10
Total	4519

Total Company's Rupees... ..

D. 4th or Western Division.

Superintendent's Contingencies, ...	354 8 4
Stationery, ...	434 1 5
Feed of Government Elephants, ...	252 5 2
Two Deputy Collector's Contingencies, ..	128 4 1
Total	1169
Two Deputy Collector's Travelling Allowances, ...	1020 0 0
Ditto Establishment ditto, ...	300 6 11
Total	1328

Total Company's Rupees

Grand Total Company's

E. This amount of Rupees 13,402-13-2 may be explained as Expended on account of 4th Division Rupees, ... Two Peshcars and 20 Ameens transferred to Mr. Birch, Superintendent 1st Division, as per Board's order No. 87, dated 25th Oct 1854, from December 1854 to March, 1855, being 4 months. Remitted to the Collector of Burdwan, on account of Ban Work as per Board's order No. 304, dated 5th October 1855.

Total Company's Rupees... ..

Of the above Statement the following Table exhibits the Expense under each Class, and the Savings to Government.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
DIVISIONS.	Superintendent's Salary.	Covenanted Assistant's Salary.	Uncovenanted Deputy Collector's Salary, including Establishment.	Superintendent's Establishment.	Assistant's Establishment.	Extra Establishment under Deputy Collectors.	Extra Establishment under Superintendent.	Extra Establishment under Assistant.	Office Rent.	Field Establishment.	Contingent Charges.	Ticca and Muzcooree Peelas.	Total Expenses.	Total Savings.
1st Division, ...	11606 10 6	6600 0 0	22016 4 1	4236 0 0	1050 0 0	1945 2 0	2367 2 0	0 0 0	712 8 6	13746 7 0	A. 9243 7 6	1443 10 0	73967 3 10	766 14 3
2nd Division, ...	11454 13 4	0 0 0	13200 0 0	4696 9 8	0 0 0	1200 0 0	1702 0 2	0 0 0	600 0 0	18109 0 3	B. 4275 3 8	323 5 9	55561 0 10	1165 5 11
3rd Division, ...	14629 0 5	3306 7 1	15521 12 3	3229 3 1	195 1 11	1976 9 9	0 0 0	0 0 0	645 0 0	17144 6 0	C. 6579 12 1	504 0 0	63731 4 7	219 1 6
4th Division, ...	13419 5 8	0 0 0	10000 0 0	4216 9 3	0 0 0	1200 0 0	0 0 0	0 0 0	667 10 5	E. 13402 13 2	D. 2498 9 11	224 10 0	45629 10 5	663 8 0
Total, ...	51109 14 1	8906 7 1	60738 0 4	16378 6 0	1245 1 11	6321 11 9	4069 2 2	0 0 0	2625 2 11	62402 10 5	22507 1 2	2495 9 9	238889 3 8	2814 13 8

APPENDIX.

81

No. 36 A.

FROM

THE DEPUTY SURVEYOR GENERAL,

TO

THE SECRETARY TO THE BOARD OF REVENUE,

LOWER PROVINCES,

Fort William.

Dated Calcutta, 15th February 1856.

SIR,

HAVING received and examined the Reports and Returns connected with the Revenue Survey Operations in the Bengal Provinces during the past season of 1854-55, I have the honor to submit for the information of the Board of Revenue as well as of His

A. B. E. and F. and Honor the Lieutenant-Governor of Bengal, the results of the season's original Statements. labors accompanied by the usual Tabular Statements as per margin of the details obtained by the Professional Branch of the Survey Establishments in the Lower Provinces.

2. The general results may be summed up as follows :—The four Regular Revenue Survey Establishments have been under the control and guidance of the same Superintending Officers, as mentioned in my preceding Report; the Survey of Assam having been completed, Mr. O'Donel, as stated in the 83rd para. of that Report, rejoined his old appointment in Mr. Pemberton's (1st Division) Survey. The following Districts have been under Survey :—

1st or Northern Division.—Mr. J. J. Pemberton, Pubna, South of Ganges River.

2nd or Southern Division.—Major R. Smyth, Nuddea, Northern portion.

3rd or Eastern Division.—Mr. Alexander Wyatt, Mymensing, East of Brahmapootra River.

4th or Western Division.—Captain J. E. Gastrell, Moorshedabad and Bancoorah.

5th or Arracan Division.—Mr. H. A. Porteous, Akyab.

3. Of the Districts enumerated, those of Pubna, Nuddea, and Moorshedabad have been completed, and new ground has been taken up in the Districts of Rungpore and Burdwan; Bancoorah is about half finished, and of Mymensing, a considerable area still remains to be surveyed. In a recent communication marginally cited to my address,

No. 8 dated 1st Feb. 1856, from Secretary Board of Revenue, Lower Provinces, to D. S. G., with enclosure.

the completion of the demarcation of Mymensing is intimated; it may be anticipated, that the Survey will, in the ensuing season, be brought likewise to a close; after which I concur with the Board in thinking

that Dacca and Furreedpore will be the most convenient Districts for this party to proceed with. In Arracan, I regret to say, nothing whatever has been done, the season has been entirely a blank one, owing to the Superintending Officer, as well as his single Assistant, having been prostrated during the entire Field season by the fever common to the District.

4. An area of 25,84,618.82 acres or 4,038.43 square miles has been surveyed and mapped during the season, giving an average of 1,009.62 square miles nearly to each of the four parties, and approximating very closely upon the out-turn of the previous season, after excluding Assam and Arracan. This area comprises 91 portions of pergunnahs, containing 6,592 mouzas within 6,162 hulkas or circuits and 94,831 arazees, the boundaries of which had been defined by the demarcation Establishment, the

General results.

average number of the hulkas for each party being 1,540, of an average size of 475·21 acres, or a little less, three-fourths of a square mile each.

5. The following Statement exhibits the general results, at one view, the totals being contrasted with those of the preceding season for comparison :—

NAMES OF DIVISIONS.	Names of Superintending Officers.	PERSONS.		Number of hulkas or traverse circuits.	Average size of traverse circuits.	Total area surveyed in square miles.	Total Cost.			Average rate per square mile.			Average rate per circuit.		
		Completed.	Portions of				Rs.	As.	P.	Rs.	As.	P.	Rs.	As.	P.
1st or N. Division, ..	Mr. J. J. Pemberton,	0	56	1445	432·96	853·72	31148	11	11	35	5	7	20	14	1
2nd or S. Division, ..	Major R. Smyth, ..	0	6	771	757·39	959·56	30745	15	4	31	3	0	38	13	1
3rd or E. Division, ..	Mr. A. Wyatt, ..	0	26	2172	318·52	1090·97	35150	14	0	31	9	3	15	11	6
4th or W. Division, ..	Capt. J. E. Gastrell,	0	3	1774	391·97	1144·22	31827	9	1½	20	13	9	17	5	1
5th or Arracan Division,	Mr. H. A. Porteous,	0	0	0	0	0	12971	11	9	0	0	0	0	0	0
6th or Assam Division,	Mr. J. H. O'Donel, ..	0	0	0	0	0	2485	3	1	0	0	0	0	0	0
Total for 1854-55,		0	91	6162	475·21	4038·47	143729	11	2½	30	15	2	20	4	5
Total for 1853-54,		21	109	5004	562·00	5490·35	143093	15	9	26	1	0	24	9	1
Difference,		0	- 18	× 1158	- 86·79	- 1461·88	× 635	11	5½	× 4	14	2	4	4	8

It will be perceived that the above Statement includes a sum of Rupees 14,856-14-4, on account of the Assam and Arracan Survey Establishments, the former of which drew the sum stated against it during the period of three months (*viz.* October, November and December 1854) after the season in which its Field work terminated, and whilst it was independently employed in completing and closing its records, and moving to another District, and the latter, a still higher amount for no return of work whatever, as already casually adverted to. Under these circumstances although I have adhered to the usual form and exhibited the *bonâ fide* mileage and circuit rates on the absolute grand total expenditure of all the Establishments, yet the amount debited to the Assam and Arracan Surveys cannot fairly be thrown upon the cost of the four Regular Surveys, the labors of which have alone contributed to the area of the season. Rejecting these extraneous items of expenditure, therefore, the average rate per square mile and village circuits are Rupees 30-15-2

and Rupees 20-4-5 respectively. These would give a difference, as marginally noted, on the cost of these items of Rupees 4-14-2 and Rupees 4-4-8, in comparison with the rates of the past season; and though the one exhibits a considerable increase arising in the absence of all area from two small detached and desultory Surveys of a minor importance, the other is proportionately reduced,

and bears a better comparison with the cost of season 1853-54. The Assam and Arracan Surveys contributed in that year 1244·67 square miles, towards the reduction of the mileage and circuit rates.

6. The total outlay incurred amounts to Company's Rupees 1,43,729-11-2½, of which the sums of Company's Rupees 14,856-14-4 and Company's Rupees 3,878-9-7 are respectively for the Assam and Arracan Surveys, and for the Mehalwaree Calculations, which latter, as usual, has to be debited to the Civil Branch in each Survey Establishment. These deductions will leave a balance of Company's Rupees 1,24,994-3-3½ to be carried to the Account of the Professional Establishment for Bengal

	Per Square Mile.	Per Village circuit.
Season 1854-55	30 15 2	20 4 5
Ditto 1853-54	26 1 0	24 0 1
Difference,	× 4 14 2	- 4 4 8

Proper ; and upon this sum mean averages for the Regular Surveys have been deduced (as was the case last season) and the details of which will be found specified in table E. The sav-

	Rs.	As.	P.
Annual Grant for 4 Regu- lar Surveys, }	150096	0	0
Ditto for Arracan, }	18612	0	0
Ditto for Assam, rateably for three months, }	4269	0	0
Total,	172977	0	0
Total Expenditure,	143729	11	2½
Savings,	29247	4	9½

ings to Government on the annual fixed maximum Grants, amounts to Company's Rupees 29,247-4-9½ as exhibited in the margin. From this saving a further reduction of Company's Rupees 6,312-0-0 must be made to meet the salary of Captain Sherwill, on deputation, for the adjustment of the Civil and Criminal Jurisdictions, for the past season, at the monthly rate of Rupees 526 as authorized by Government. This places the sum of Company's

Rupees 22,935-4-9½, to the credit of this Department after payment of all expenses.

7. The several original Returns furnished by the Revenue Surveyors, copies of which are appended to this Report, will show that the nature and extent of maps and other records prepared, or in course of preparation, are as follow :—

Records.

1. Folio volumes containing 4,993 village Plans and Registers, in duplicate.
2. Eighteen Pergunnah or Circuit Maps, scale 1 mile = 1 inch, in duplicate.
3. Four Index Maps, explanatory of the season's operations, on reduced scales.
4. Thirty-six Main Circuit Traverse Computations, being the numerical data on which the Survey is based.
5. Forty-three Sheets or Chudders, containing the 1,626 congregated villages of Bancoorah, on the new system.

8. Of these records, some have been received, but the greater portion of the village plans necessarily remain in the hands of the Surveyors, owing to the inter-mixed state of the pergunnahs in these Districts, and the innumerable outlying villages lying widely apart, the Survey and collection of which are the work of time and often delay the completion of a volume or pergunnah for years. The topographical or pergunnah maps are, however, always lodged, season by season, now that we have entered the very worst Districts of Lower Bengal, especially those to the eastward. I have adopted a new system of surveying the country by convenient and compact blocks or main circuits, containing a specified number of congregated villages, without attempting to run after the pergunnah limits in the Field, which we find not only to be fruitless, but to cause serious inconvenience and delay in the ascertainment of the correct areas of detached portions of pergunnahs, and the transfers of villages from one pergunnah to another, as well as to distort the grand circuits of the Survey, and consequently the maps, in a most unseemly way. By now surveying and mapping each block of (say) 100 square miles independently, every village is assigned to its proper pergunnah on the map by means of the correct information given in the demarcation papers. Several main circuits may contain villages of the same pergunnah, but at the end of the season, or on the completion of a District, or of two or three Districts, all pergunnahs and villages are accounted for and any estate or portion of an estate, or pergunnah, may then be extracted from the several Survey Records and be put together as required. It is not in fact until months after the Survey is over, and the maps have all been finished and compared with the demarcation papers, that the identification of pergunnahs or other fiscal sub-divisions in this extraordinary country can take place.

9. It is therefore in my opinion far better not to permit these bulky volumes of a whole season's work to be detained in the hands of a Surveyor, in order to carry out transfers, which are utterly confusing and unintelligible when done. A simple record of every village found in its own geographical position can be prepared within each recess, and by getting them out of hand the Surveyor is enabled to devote his whole time and attention to his new season's work, which is highly desirable ; whilst the permanent record for this Office is at once understood, and forms a correct datum from whence all transfer areas can be calculated.

10. During the season another change has been carried out in the mode of rendering the village plans by large sheets, Imperial size, each containing from 20 to 30 congregated villages, on the usual scale of 20 chains to the inch,

Change in recording
village plans.

instead of on separate register sheets. This modification was fully discussed and approved by the Board (*vide* correspondence as per margin.) It has been introduced only for newly-commenced Districts, and Bancoorah will be completed in this style, as well as Burdwan and Rungpore now just commenced. The mode of preparing these plans and calculations will, I think, be very generally approved, and it finds much favor in the eyes of the Surveyors, from the reduction in the amount of copying work.

11. Adverting to the 11th and 12th paras. of my last Report, in which the subject of extended progress and diminished cost, has been referred to, and in order to ensure which, it was proposed to, and sanctioned by, Government to raise the four Bengal Surveys, as in the North-Western Provinces to the maximum strength of Company's Rupees 37,524 per annum; the arrangements to strengthen the Professional Establishments by the introduction of new hands have been carried out as far as practicable and gradually according to the wants and requirements of each party, and with reference to the probable supply of prepared boundaries. It will, however, be some time before much perceptible difference in the results can be hoped for. The cost of the several Establishments is still considerably below the sanctioned maximum, with the exception of Major Smyth's Division, where the strength is quite complete. The increased progress must be gradual and this will be apparent as soon as the new hands are well instructed in their duties, and become efficient, and a wide field for Survey operations is previously prepared and made ready by the Civil or Demarcation Establishment.

12. I now pass on, to mention each separate Division.

The 1st or Northern Division Survey party, of the strength specified in the margin, and under the Superintendence of Mr. J. J. Pemberton, commenced its Field operations on the 1st December 1854. The work lay in that portion of the Pubna District, South of the Ganges, and also in one other Trans-Gangetic pergunnah of the same District, left unsurveyed in 1853-54. Throughout no impediments existed to the progress of the work, except in as far as the construction and receipt of the

Thakbust papers are concerned, which have been supplied irregularly, and were very defective, having been constructed on the old system.

13 The area surveyed amounts to 5,46,381 acres 1 rood and 24 poles, or 853-72 square miles, within no less than 56 pergunnahs of four different Districts, *viz.* Pubna, Jessore, Nuddea, and Rajshahye, in 10 main circuits, which embraced 1,537 *bonâ fide* villages (uslee mouzas), besides 1,118 small parcels of detache. villages, called arazees, making a grand total of 2,655 as enumerated in the following Table. The average size of the village circuit (not reckoning the arazees) being 378 acres.

NAMES OF DISTRICTS.	No. of Pergunnahs.	Traverse circuits.	Uslee villages without traverse.	Arazees.	Total.	Square miles.
Pubna,	28	1060	76	907	2043	554-12½
Jessore,	18	332	17	135	484	226-56½
Nudden,	5	24	1	0	25	21-80½
Rajshahye,	5	20	7	76	103	11-84½
Total,	56	1436	101	1118	2655	814-34
Ganges and other River Circuits,	5	9	0	0	9	39-38
Grand Total,	61	1445	101	1118	2664	853-72

14. The total cost of this Division Survey has been Company's Rupees 31,148-11-11, in which is included Company's Rupees 715-13-10 for mehalwaree calculations, and a small sum of Company's Rupees 252, for Scholars, Classies and Tindals, entertained for the Arracan Establishment, debited to that Survey, making a total of Rupees 967-13-10 for extraneous expenses; and deducting this sum therefore from the total drawn, it will leave Company's Rupees 30,180-14-1, on which the mean average has been struck, showing the rate of work to be Company's Rupees 35-5-7 and Company's Rupees 21-14-1 on square mile, and per village circuit respectively. The above rates are considerably in excess of those which obtained during season 1853-54, as will be observed by the following comparison, but the reasons assigned by the Revenue Surveyor are sufficient to account for this, *viz.* *first*, the limitation of the work of the season to the completion of the Survey of the Pubna District; *secondly*, no other work being ready for the party to enter upon either in the Bograh or Rungpore Districts, which were at a considerable distance from the tract now reported on, but which, had it been delivered over for Survey, would have been easily executed; and *thirdly*, the unexpected return to the Establishment of Mr. O'Donel, from the breaking up of the Assam Survey, whose high salary was a considerable drain on the resources of the 1st Division party, without a corresponding additional area being practicable for Survey, to counterbalance the expense thus entailed.

SEASON.	Area surveyed in square mile.	Number of village circuits.	Average size of village circuits in acres.	Total Cost.			Average rate per square mile.			Average rate per village circuit.		
				Rs.	As.	P.	Rs.	As.	P.	Rs.	As.	P.
1853-54, ..	1000-72	1631	347	26832	12	10	26	7	6	15	12	2
1854-55, ..	853-72	1445	433	30180	14	1	35	5	7	20	14	1
Difference, ..	- 147-00	- 236	+ 86	+ 3348	1	3	+ 8	14	1	+ 5	1	11

15. The maximum grant for this Division Survey, has been raised from Company's Rupees 28,276 to the highest allowance conceded by Government to the remaining three Divisions, and thus they have been placed on the same footing as the North-Western Establishments, *viz.* Rupees 37,524 per annum by the orders of the Supreme Government, cited in the margin; the expenditure therefore is within the fixed sum by Company's Rupees 7,343-1-11*, which amount is carried to the general Savings of the Department, and to the credit of Government.

16. The Return of Professional Field and Office work furnished by this Surveyor with his annual papers, shows the number and description of maps and documents enumerated in the margin, of which those underlined have been received, whilst the others are completed as far as the state of the intermixture of the pergunnaahs permit. This subject has been frequently dwelt on in previous Reports, and need not be repeated here. The lamentable effects of this detention of the village Plan volumes in the hands of the Surveyor, have been exemplified in this Division during the past season, by the accident which occurred to Mr. Pemberton, through which his records, instruments, books, and tent equipage were lost in a great storm on the Ganges in May last, as duly reported in my letter noted in the margin. The greater portion of the copying of the Plans

Extract from the proceedings of the Hon'ble the President of the Council of India in Council, in the Financial Department, No. 1588, dated 17th April 1855.

Pergunnah Maps of *Bajooras Mohabutpore, Besahimpore, Mahomedshahee* and *Nusurutshahee*, on the scale of one mile to the inch, in duplicate.

Main circuit traverses for D. S. G.

1445 village Plans and area Registers for D. S. G. in 13 volumes.

1445 village Plans only, with Registers, for Civil Authorities, in 13 volumes.

Two Index Maps of the season's work, 4 miles to 1 inch.

One Connecting Map of the Pubna and Mymensingh Districts, scale 1 mile to 1 inch.

101 Uslee villages Plans only, with Registers, in duplicate; 1118 ditto arazee Plans, in duplicate.

No. 74, dated 21st September 1855, from D. S. G. to Board of Revenue, Lower Provinces.

* Annual Grant,.....	37,524	0	0
Expended,	30,180	14	1
Savings to Government,.....	7,343	1	11

and area computations has been effected, but the whole will not be finally arranged and completed until the next recess, when a heavy amount of work will have to be brought up, and I have consequently advised the Surveyor not to attempt too large an area this season, but to endeavour to return early from the Field for the above purpose. The new mode of surveying and recording the work in these Districts as referred to in para. 10, will, I trust, obviate all chances of a similar disaster to the above.

17. Mr. Pemberton represents the Thakbust Maps as having been very defective, and constructed on the old system, *viz.* mere eye-sketches, very many of which had to be revised, and though the Deputy Collector exerted himself to the utmost, much serious delay took place in furnishing the Surveyor with the necessary papers. He, however, reports very favorably of the state of the demarcations in the Districts of Rungpore and Bograh for season 1855-56, and of the receipt of 480 Thakbust Maps. The Civil Superintendent promises to furnish the remainder very shortly, and reports that there will be few local difficulties to contend with in the present operations, for which 1,800 villages are ready to be commenced upon.

18. Mr. Pemberton speaks in terms of unqualified approbation of his two senior Sub-Assistants, Messrs. R. Smith and J. R. Pringle,

I must again prominently bring to your notice Messrs. J. R. Pringle and R. Smith; they have both been senior Sub-Assistants for a considerable time, and I beg to recommend them, for promotion to the grade of Assistants in the Department. You are personally acquainted with Mr. Pringle's qualifications as a Surveyor. Of Mr. Smith, I have constantly written with praise, and he has justly deserved it. He is a young man of talent and education; his position has developed his abilities, and I now pronounce him an Assistant of first-rate qualifications, and worthy of the boon I earnestly request for him.

who are both very deserving Assistants, recommending them to promotion to the next higher grades of Assistant Surveyors, on salaries of Rupees 250 each. The transfer of Mr. O'Donel, the Assistant Surveyor on this Establishment, to the charge of the Arracan Survey has left a vacancy which requires to be filled up by the nomination of one of the senior Sub-Assistants

above-named. They are both acting in the same grade in the Department, and on the same salary, but whilst Mr. Pringle is by a few years, the senior in actual service, Mr. R. Smith, in point of general qualifications and attainments, is decidedly superior and best fitted for the responsible post of Head Assistant Surveyor, on whom the charge of the Survey would fall in case of the removal or absence of the Superintending Surveyor. I have, therefore, in conformity with the terms and spirit of the Government Resolution, which specifies that general merit and usefulness, not seniority alone, found the best claim to promotion and reward, considered and placed Mr. R. Smith, in that position, and I solicit confirmation to the increased salary recommended for both these Assistants.

19. Of Mr. O'Donel, Mr. Pemberton writes in terms of high commendation, and speaks of the exertions of his other subordinates as most praiseworthy. Mr. O'Donel has already reaped the reward of his services in the Department by appointment to the Revenue Surveyorship of Arracan, on the full allowances from the commencement of the current season.

20. This Division Survey closed its field operations on the 12th May 1855, and returned to Berhampore for the recess, there being no means of residence at Pubna for so large a party. The same reasons will compel it to resort to the same station again, after the expiration of the present field season, inasmuch as Rungpore contains no houses for so large an Establishment, and moreover the place is accounted so unhealthy for Natives of other parts of India who are attached to the Survey, that Mr. Pemberton fears his party would be entirely disorganised were he to attempt to locate at that station; he will therefore be compelled to return to Berhampore, and to which I see no objection.

21. The Establishment of the 2nd or Southern Division Survey under Major Smyth, of

2nd or Southern Division.—Major R. Smyth, Revenue Surveyor.

Mr. N. T. Davey, Assistant Revenue Surveyor.

Sub-Assistants.—Messrs. W. Ivey, W. Davey, P. Agabeg, and G. Thompson.

40 Native Surveyors.

Area surveyed 959-56 square miles.

Cost per square mile, Rupees 31-3-0.

the strength detailed in the margin, took the Field on the 1st December 1854, and commenced active duties on the 6th idem, in the remaining portion of the District of Nuddea. The tract of country surveyed forms the Northern portion of the District, adjoining Jessore, Pubna, Moorsshedabad and Rajshahye Districts, and

situated between the Jellinghee and Bhaugiruttee Rivers, thus completing the entire District

22. The number of villages demarcated and made over for Survey, amounts to 603, and in the following pergunnahs :—

Pergunnah	No.
Sahahoojul,	213
„ Bugwan,	171
„ Guznobeepore,	45
„ Plassey,	146
„ Khosealpore,	21
„ Belgong,	7
Total, ..	603

In addition to the above, there were 284 circuits of the previous season's work, of which the interior topography was left uncompleted, the half of which number only, together with the area of the same, was carried to account for that season; the remaining half therefore is included in the present Return as compensation for the labor entailed during the season under review; the total number of circuits therefore is 731, exclusive of 12 river circuits, aggregating an area as stated below :—

Village circuits and chucks,	Acres 5,74,860.26
River circuits,	„ 39 253.99
British acres, ..	6,14,114.25

or 898.22 square miles of village and 61.34 square miles of river circuits, making a total of 959.56 square miles for the out-turn of the season. This area was completed by the 15th April 1855, when the party returned to Burdwan for the recess, as there was no further work remaining to be done, the entire District of Nuddea having been accomplished, and there being no demarcations ready at the time in the next District (Burdwan) for Survey. The above area should be assumed, therefore, Major Smyth states, as the result of only four months' labor in the Field; for a fortnight of the time from the date of departure (1st December 1855) was lost in marching to and from Burdwan, the head-quarters of the party, which was 100 miles distant from the scene of operations.

23. The result of so short a season's labor must necessarily affect the cost, and in proportion enhance the rates in consequence of the expenditure of the whole year being met or covered by the reduced area obtained from only four instead of six months' Survey, a third of the time usually devoted to Field operations, having been rendered altogether unproductive. Hence the comparison of the results of the previous and past season's proceedings are unfavorable to the latter :—

Seasons.	Description of work.	Area in square miles.	Number of hulks or traverse circuits.	Average size of hulks or chucks in acres.	Total Cost.	Average rate per square mile.	Average rate per traverse circuits.
1853-54.	Professional Survey of Nuddea,	1219.67	959	785	28999 2 9	23 12 3	30 3 11
	Portion of Establishment engaged on mehalwaree calculations, .....	.....	.....	.....	1098 0 0	0 0 0	0 0 0
1854-55.	Professional Survey of Nuddea,	959.56	771	757.39	29930 3 7	31 3 0	33 13 1
	Mehalwaree calculations, ....	.....	.....	.....	815 11 9	0 0 0	0 0 0
	Difference,	- 250.11	+ 188	+ 27.61	+ 931 0 10	7 6 9	+ 7 9 2

24. The cost of the Establishment exclusive of Rupees 815-11-9 for mehalwaree calculations has been Rupees 29,930-3-7, which gives an average rate of Rupees 30-3-0 per square mile, and Rupees 38-13-1 per village circuit, the average size of which is particularly large for Bengal, viz. 757 acres. The amount of savings effected after paying all charges

	Rs.	As	P.
Annual Maximum, ..	37524	0	0
Deduct Expenditure, ..	30745	15	4
Savings to Government, ..	6779	0	8

- is shown in the margin. It is the largest sum saved from any of the four Regular Bengal Surveys during the past season, though the area is not the least that has been accomplished for the period of its active employment in the field.

25. The management of the professional part of the work, like every thing else undertaken and executed by Major Smyth, has been most creditable. The area above-mentioned has been included in three main circuits which were sub-divided into 28 minor circuits for the purpose of eliminating errors in the angular and linear measurements. The following is the result of the comparison of the present season's work with the Great Trigonometrical Survey Stations which have been duly taken up and connected:—

Names of Stations.	From Revenue Survey.	From G. T. Survey.	Error of Revenue Survey.	Error per Mile.
	Feet.	Feet.	Feet.	Feet.
Anandbas to Kedarpara,	56005.62	56081.20	- 75.58	- 7.12
Kedarpara to Gobipore,	60598.56	60566.00	+ 32.56	+ 2.33
Gobipore to Kishtonuggur,	61053.30	61077.60	- 24.30	- 2.11
Gobipore to Gobindpore,	60910.08	60902.60	+ 7.48	+ 0.65
Gobipore to Dogatcha,	46735.92	46748.00	- 12.08	- 1.37
Dogatcha to Kedarpara,	61426.20	61366.50	+ 59.70	+ 5.13
Kedarpara to Buhadurpore,	56579.82	56583.50	- 3.68	- 0.35
Total Distance,	403309.50	403325.40	- 15.90	- 0.28

In a total distance of nearly 76½ miles, there is a defect of 15.90 feet only, or 0.28 of a foot per mile; the greatest error on intermediate distances being 7.12 and the least 0.35 feet per mile. This is, without doubt, most satisfactory, and reflects great credit on the able superintendence of Major Smyth.

26. The demarcation Maps are represented by Major Smyth to have been excellent, there having been only 15 cases in which the boundaries differed from the Professional Survey, and of these 13 proved to be in favor of the bounds as obtained by the Professional Survey, and 2 only in favor of the Thakbusts.

In the calculation of the areas of small intermixed estates as measured and mapped by the Civil Department, there has been a considerable reduction in labor. Two hundred and ninety-six village Maps required the calculation of details comprising 8,480 separate estates or parcels of estates. The average cost of this operation on the whole village is Rupees 2.12 and on the separate plot 1 anna and 6 pie, there being no field by field detailed measurements in the former. Major Smyth states that on the occasion of the transfer of the demarcation duties to him, he has taken the opportunity of reducing the Establishment required for this special purpose which will, in future, consist of one Head Calculator at Rupees 16, and one Assistant at Rupees 12 per mensem, or at a total annual expense of 336 Rupees.

27. The Records completed and lodged in this office are enumerated in the margin, all

Map of Pergunnahs Sahaoojul and Guznobupore, in duplicate.
Ditto Pergunnahs Bugwan, Plassey, Khosialpore, Belgong, Omerpore, and Mahalpore, in duplicate.
Duplicate copies of the Pergunnah Maps of season 1853-54, viz. Pergunnahs Rajpore Ookrah, Chucklah Kishnaghur.
1858 Village Maps, in duplicate, including 624 of season 1853-54, bound up in 12 folio volumes.
One Index Map on 4 inches to 1 mile.

of which are most satisfactorily brought up and finished. Major Smyth reports every pergunnah completed, every plot of an estate calculated, and the detail of the same furnished to the Civil Superintendent, to whom duplicate copies of all pergunnah, as well as village Maps have been furnished, no arrear of whatever kind remaining on his hands; and that his present season's operations in the Burdwan District have commenced on the new system, with a clear file and free of any anxiety for past labors.

28. The Survey of the District of Nuddea having now been reported finished on the 30th

To the North, the right bank of the Ganges River, and the Moorshedabad District. To the East, the Pubna and Jessore Districts, and where the Ganges, Pungassee, and Cobbaduk Rivers form the boundary, the right bank has been taken. To the South, the Allipore Division, of the 24-Pergunnahs District, as far as the River Hooghly, and to the West, the Hooghly, Burdwan, and Moorshedabad Districts; the left bank of the Rivers Hooghly and Bhaugiruttee, forming the boundary the whole way with the following exceptions:—

Pergunnah Turriff Nuddea, situated on the right bank of the Hooghly, and comprising 7,812-99 acres. Between this Pergunnah, and Pergunnahs Ookrah and Bugwan, situated on the left bank, the Rivers Hooghly and Bhaugiruttee have been included in the area of the District.

Mouza Agurdeep, situated on the right bank of the Bhaugiruttee, and numbering 3,401-35 acres, and Mouza Bidoparrah, situated also on the right bank of the Bhaugiruttee River, and numbering 1,236-33 acres, inclusive of the intervening river. Where the Jellinghee River forms the Western boundary between the District, and District Moorshedabad, the right bank has been taken.

ed, as they comprise 3 river circuits of the Bhaugiruttee, and 3 of the Ganges, and have already been accounted for and included in the Districts of Hooghly and Rajshahye respectively.

29. The above area has been enclosed within 14 grand main circuits divided into 135 minor ones, and these again sub-divided into 3,409 village circuits, 209 circuits of detached parcels of villages and 21 circuits of rivers. The villages amount in number to 4179, the average size of which is a square mile as nearly as possible.

30. A connection with 14 stations of the Great Trigonometrical Survey has been effected during the progress of the Survey of this District, and in the Civil Department there have been

35 Village Circuits, measured field by field entirely.

1,449 Ditto, containing two or more estates.

558 Ditto, ditto detached lands only.

1,367 Ditto, belonging entirely to one estate.

3,409

Whilst the number of internal mehals, calculated on the Maps of the Civil Department, amounts to 53,674 of a gross area of 5,18,928 beegahs.

31. The cost of the Survey of the whole District, which commenced in season 1848-49, and after excluding the expenditure of 1850-51, when Major Smyth was employed in the 24-Pergunnahs and Soonderbuns, amounts to Rupees 1,15,423-13-8, yielding a general average of Rupees 32-3-6 per square mile.

32. I have derived much satisfaction from the perusal of the 11th para. of Major

My Assistants, who are indefatigable in Field and Office, continue to deserve my highest approbation. I can only repeat what it has been my great pleasure to report of them for the last four or five years that they are not to be equalled in the zealous co-operation they afford me, in progressing the work of this Division. I beg strongly to bring to your notice Messrs. N. T. Davey, W. Ivey, and W. Davey, for such increase as you may consider them deserving of.

Smyth's Annual Report as cited in the margin, and in accordance with his strong recommendation, the salaries of the Assistants specified are noted for increase from the 1st January last, subject to the usual confirmation. Mr. Davey is an Assistant of great worth and of the highest character for professional knowledge, energy,

and general merit. Of the remaining Sub-Assistants in this Division, Mr. P. Agabeg received an increase of 50 Rupees during the previous season at Major Smyth's recommendation and Mr. G. Thompson has been transferred to the Arracan Survey from the 1st October last.

33. The Survey Establishment of the 3rd or Eastern Division, of the strength specified

3rd or Eastern Division, Mymensing.—A. Wyatt, Esq., Revenue Surveyor.
 Assistant Revenue Surveyor.—Mr. C. Bell.
 Sub-Assistants.—Messrs. G. S. Swiney, S. Phillips, A. Phillips, J. K. Moran, G. C. Bolst, Draftsman,
 30 Native Assistants.
 Area surveyed, 1,080·97 square miles.
 Average rate per square mile, Rupees 31-9-3.

in the margin, and under the superintendence of Mr. A. Wyatt, commenced field operations in December 1854, having moved out of their recess station of Dacca for the field on the 15th November preceding, and continued their field operations up to the end of May 1855, a

period of nearly six months. The area accomplished by this party amounts to 6,91,821·17 acres or 1,080·97 square miles, and lies within the parallels of 24° 15" and 24° 58" North Latitude, and between the meridians of 90° 20" and 91° 8" East Longitude, being about 50 miles in length North and South, and about 55 miles East and West. This tract is bounded in the North by the Kunks and its confluent rivers, which separate it from Pergunnah Shooshung. On the South by the boundary of the Dacca District; on the West by the Brahmapootra River, and conterminous to the last season's measurements, and on the East by that portion of the District of Mymensing which comes under Survey during the current season, excepting a small tract on the North-east, adjoining the District of Sylhet.

34. The above area extends over portions of 19 pergunnahs of Mymensing, 3 of

PORTIONS OF PERGUNNAHS.

District Mymensing.

1. Mymensing.
2. Hoosynshahee.
3. Tuppeh Toollindur of Khooree Khaee.
4. Shooshung.
5. Nusseeroojal.
6. Raedoom.
7. Tuppeh Singdha Durzeebazoo.
8. Joar Hoosynpore.
9. Tuppeh Hazradee.
10. Tuppeh Kooreekhaee.
11. Tuppeh Bulrampore.
12. Run Bhowal.
13. Eedgah.
14. Khullecajooree.
15. Tuppeh Satsika, Pergunnah Alupsingh.
16. Sheyropore.
17. Durzeebazoo.
18. Burdakhad.
19. Bowkhund.

District Tipperah.

1. Tuppeh Kooreekhaee.
2. Tuppeh Singdha, Pergh. Burdakhad.
3. Tuppeh Singdha.

District Dacca.

1. Pergunnah Kassimnuggur.
2. Tuppeh Singdha, Pergh. Nusrutshahee.
3. Nusrutshahee.

District Sylhet.

1. Atgaon, besides intermixed Pergunnahs and Districts.

Tipperah, 3 of Dacca, 1 of Sylhet, and 64 villages of pergunnahs and Districts intermixed, as noted in the margin, and are contained in 2,139 villages lying within 2,172 demarcated circuits, the average size of which is only 318 acres or one-fourth less than that of the previous season. The total expenditure incurred amounts to Rupees 35,150-14-6 inclusive of Rupees 1,006 devoted to the Civil duty of the calculation of the small estates, deducting which, leaves a balance of Rupees 34,144-14-6 to be carried to the account of the charges proper to the Professional Survey. The comparison between the past and previous season's proceedings stands thus:—

Seasons.	Description of Survey.	Area surveyed in square miles.	Number of village circuits.	Average size of village circuits.	Cost.		
					Rs.	As.	P.
1853-54.	Professional Survey,	864·07	908	586	29772	2 5	84 7 3
	Mohalwaree calculations,	0	0	0	637	9 7	0 0 0
1854-55.	Professional Survey,	1050·97	2172	318·52	35150	14 6	31 0 3
	Mohalwaree calculations,	0	0	0	1006	0 0	0 0 0
Difference,		+ 216·00	+ 1264	- 267·48	+ 5378	12 1	- 2 14 1

The above shows a favorable contrast for the season under review. The increase in the expenditure by Rupees 5,378-12-1 has brought a corresponding additional area, thereby reducing the average rate from Rupees 34 to 31 per square milc. This is very satisfactory, especially when it is remembered that the nature of the country (abounding in swamps and jheels) is a serious obstacle to the rapid progress of a Survey, and the number of village circuit bears so very large a proportion to the number effected in 1853-54, viz. as 2,172 to 908.

35. The Field and Office Establishment has entailed an expenditure of Rupees 34,144-14-6 (or 35,150-14-6 inclusive of the Civil Branch) which deducted from the full maximum grant recently authorized, shows a saving

	Rs.	A.	P.
Maximum Grant,	37,524	0	0
Expended,	35,150	14	6
Total Savings,	2,373	1	6

of Rupees 2,373-1-6 as per margin, which has been carried to the credit of Government. The above expenditure is also exclusive of the special grant made to Mr. A. Wyatt, of 100 Rupees

per mensem, as a personal allowance, for length of approved service, by Government Order No. 1335, in the Financial Department, dated the 14th April 1855. This allowance being distinct from the salary of a Surveyor, and drawn separately, has not been deemed a legitimate charge against the actual work performed.

36. Mr. Wyatt reports his inability to state definitively what pergunnahs have been completed, the intermixture being so very extensive—in fact, until the whole District is completed and perhaps the adjoining ones of Dacca and Sylhet as well, it will be impossible to say where an outstanding village of one of the surveyed pergunnahs will not turn up; but he assumes about 3,000 square miles of the District to lie over for Survey, and he believes that from 12 to 1,300 square miles will be accomplished in the current year including that portion of Pergunnah Shooshung, now being demarcated by the Civil Superintendent; a portion of the above pergunnah, and very nearly the whole of Sheyrcore, will probably remain untouched till 1856-57.

37. Mr. Wyatt's Return of Field and Office shows the extent and variety of records and documents prepared by him, and

Six General Maps on 1 mile = 1 inch, containing portions of 27 Pergunnahs and Districts have been prepared for the Office of the Deputy Surveyor General; 6 Maps on the same scale for the Revenue Authorities, making a total of 12 General Maps. One Index Map of the season's work has likewise been prepared for the Deputy Surveyor General's Office; 13 volumes of Village Plans, bound up geographically, irrespective of Pergunnah or District Divisions for the Deputy Surveyor General's Office, and 13 volumes (being duplicates of the above) for the Revenue Authorities, forming a total of 26 volumes, containing 2,439 village Plans, on a scale of 4 inches to the mile.

Nine Main Circuit Calculations for the Deputy Surveyor General's Office.

which are enumerated in the margin, in addition to which, 8 volumes of village Plans, in duplicate, of the past three or four seasons' survey of Pergunnahs Attia, Kagmaree and Burbazoo, which had been returned from this Office for correction and emendations in regard to the deficiencies in local names of parns or tola

villages, and some statistical information have been carefully collated and corrected, all of which having entailed heavy additional labor on a large section of the Survey Establishment for upwards of two months. The records however are much more than proportionately increased in value. The difficulties and delays that arise in the numerous corrections of village boundaries, by the constant changes which are made in them after the Survey and Map of them have been completed, and at the request of the Civil Superintendent, are again adverted to by Mr. Wyatt, and to this subject I drew the attention of the Board in the 51st para. of my last Report. Not a single field by field measurement has been compared with the Professional Survey, though numerous villages, internally demarcated and intricately sub-divided into numerous plots, have been sent for calculation, which the Surveyor is of opinion would have been more satisfactorily measured by the proper process of a field by field khusrah. This is in my humble opinion the grand mistake of the system introduced by the Board. Such measurements and such Maps as I have seen of Moorsheadabad and Mynensing Districts would defy all the Surveyors in the world to make any thing of them. During the past season no less than 700 villages internally demarcated have been calculated in the Surveyor's Office, of which 94 have been entirely calculated and 606 only partially. The number of plots amounts to 10,350, and the number of triangles to arrive at their area to 19,005. The expense attendant on these calculations has, in consequence, risen to Rupees 1,006 or Rupees 368-6-5 in excess of that for the previous season,

and making the average cost of each chuck Rupee 0-1-7, or of each triangle Rupee 0-0-10. The ratio of error between the professional and the calculated work in the Civil Department, on the 94 villages entirely calculated, is exhibited in the margin,

	B.	C.	G.
Greatest error in excess,	1	14	0
Ditto ditto in defect,	5	19	0
Least error in excess,	1	12	0
Ditto ditto in defect,	1	10	4

and this may be said to be very satisfactory.

38. The comparison of the professionally surveyed boundaries with the Thakbust has

* The comparison of the professionally surveyed boundary sinuosities with the Thakbust Maps has proved as satisfactory as could be expected—a few trifling discrepancies were readily reconciled by the Thakbust Establishment, and the two results made to assimilate. But the numerous and constant boundary alterations and revision, on account of disputes, are carried out to such an extent in this Division, that in many cases the appearance on the Professional Maps of the enormous effects might lead professional parties to question the accuracy of the work. Several of the present season's village Plans will be found in such a state, which has resulted from extravagant corrections in the Thakbust Maps, months and years after Survey, and I regret to state, that even up to this date this system of revisions is in progress.

I have on a former occasion brought to your notice, in my Monthly Report of Progress for August, and which is moreover detailed in the remarks to Table B., the fact of about 50 villages of this season's Survey having still their boundaries unsettled, in addition to which numerous appeal cases being before the Superintendent which may hereafter lead to the destruction of the Professional Maps. Indeed the system of furnishing demarcation papers without clear boundaries, and of mercilessly cutting up the Maps during the recess, and even years after is, I believe, carried out in this Division more extensively than in any other. These alterations in the boundary leads to serious interruption to both my Field and recess duties, and I take this opportunity of bringing it forward thus prominently to your notice, that it might find a place in your Report to the Board.

unsettled," and appeal cases are yet pending before the Civil Superintendent, which may ultimately lead to serious, if not total disfigurement of valuable and costly records, to say nothing of the distressing interruption to both field and office duties. The Mymensing District is certainly one of the worst we have yet had to deal with.

39. On the completion of the demarcations of the Mymensing District, the next convenient District to be taken up for Survey in this Division will be Dacca or Furreedpore. I believe these two Districts may be said to be so mixed up one with the other, that both ought to come under the investigation of one Civil Superintendent. If so, it is a question which of the two should be first proceeded with; either will suit professional requirements equally well; or perhaps the 3rd Division might be confined to that portion of the Furreedpore District to the North of the Great Puddah or Ganges River, which divides the District into two almost equal portions, and the Southern half could be provided for by the 4th Division after the completion of the Jessore District, to which Furreedpore is contiguous.

40. Mr. Wyatt, in conclusion, reports that he has received good aid and co-operation from several of the Assistants attached to his Survey. But of Mr. C. Bell, his Senior Assistant, he expresses himself very indifferently. Mr. Bell's qualifications are of a very mediocre order; he is no Draftsman at all, neither is he competent to write an English letter; he is moreover devoid of energy and zeal for the public service. Unfortunately, Mr. Bell estimates his own deserts at a higher price than Rupees 250 per mensem, the amount of his present salary to which grade he was raised in October 1851, and because he has served a long time in the Department, considers himself entitled to an increase, and lately took very extraordinary steps in writing to the Government, as well as to the Board direct, to effect his object. Promotion to the higher grades, under the spirit and terms of the Government Orders, dated the 29th November 1848, is not for mere length of service alone, but for especial merit and good service. To neither of these has Mr. Bell any claim whatever, and therefore I have been unable, with the very unsatisfactory nature of the Reports of his immediate superior before me, to second Mr. Bell's application to be placed on a par with Assistants of far higher qualifications and merits. Messrs. H. M.

	Rs.	Rs.
Mr. H. M. Smith, from ..	175	to 200
Mr. J. K. Moran, from ..	100	to 150

Smith and J. K. Moran are strongly recommended to the next higher grades, as specified in the margin, which has been accorded to them, subject to the usual confirmation.

41. This Establishment of the strength specified in the margin broke ground for the field, under the superintendence of Captain J. E. Gastrell, in two Divisions, viz. the 1st under Mr. R. Smart, Assistant Revenue Surveyors, Messrs. C. Bradley and R. Smart.

Assistant Surveyor, on the 18th November 1851, for

Sub-Assistants, Mr. A. Smart, Baboo Lalla Ram and Mr. J. Pickhard.
37 Native Surveyors.
Area surveyed, 1,144.22 square miles.
Cost per square mile, Rupees 26-13-9.

the District of Bancoorah, and the 2nd under Mr. C. Bradley, Assistant Surveyor, on the 27th idem, for the Survey of the remaining portion of the Moorshedabad District, the strength of each party having been proportionately divided according to the amount of work before it. The field measurements continued up to the 9th June and 1st May respectively of the past year, when the whole Establishment finally returned for the recess duties to Berhampore. The total area Surveyed during the past season, in the Districts of Moorshedabad and Bancoorah, aggregate 7,32,302.00 acres or 1,144.22 square miles, lying within 2,107 villages and 3 river circuits, the demarcations extending to 1,774 circuits: altogether the three circuits of the Rivers Bhaugiruttee, Jellinghee, and Damoodah amount to 28,94½ acres, or 45.23 square miles.

42. Of the above total area, 2,44,948 acres or 382.73 square miles belong to the District of Moorshedabad, surveyed at an expense of Rupees 10,559-14-0, or Rupees 27-9-5 per square mile, and Rupees 22-9-9 per village circuit, the number of which is 467, and the average size of the same 509 acres. The balance of 4,87,353 acres, or 761.46 square miles, appertains to the District of Bancoorah, including part of the Station of Bancoorah and the District of Paroolua, which have fallen within the Survey operations, although actually beyond the limits of Bancoorah. The cost of the Bancoorah portion amounts to Rupees 20,178-5-1½ giving an average of Rupees 26-7-10 per square mile, and Rupees 15-7-2 per village circuit, the number of which is 1,307 and their average size 27½ acres. This completes the District of Moorshedabad. The final statement of area, cost, and rate for which will be given hereafter, the information not having been obtainable. Hence the total expenditure of the Survey amounts to Rupees 31,827-3-1½, including Rupees 1,089 expended on the Civil Branch of the Establishment. For the calculation of the small estates demarcated by the Civil Superintendent, the amount of expenses is therefore much below the revised authorised Annual Grant by Rupees 5,696-12-10½, as shown in the margin. The average rate per square mile and village circuit, after deducting Rupees 1,089 stated above, is Rupees 26-13-9, and Rupees 17-5-3 respectively; the area of the river circuits being altogether excluded in the latter average.

The results of the two seasons are as follows:—

	Rs.	As.	P.
Allowed maximum Grant,	37,524	0	0
Deduct expended,	31,827	3	1½
Total Savings,	5,696	12	10½

tion of the small estates demarcated by the Civil Superintendent, the amount of expenses is therefore much below the revised authorised Annual Grant by Rupees 5,696-12-10½, as shown in the margin. The average rate per square mile and village circuit, after deducting Rupees 1,089 stated above, is Rupees 26-13-9, and Rupees 17-5-3 respectively; the area of the river circuits being altogether excluded in the latter average.

43. The rate per square mile is slightly in advance of that of the previous season, whilst the cost per village circuit is in defect, caused by the large number of villages surveyed in Bancoorah and their very small size. The difficulties in the latter District, owing to the denseness of the jungle, were very considerable, added to which, having to carry on independent work in two Districts separated from each other, divided the Establishment and caused delay. The out-turn is nevertheless very satisfactory, and under all the circumstances attendant on the nature of the country, and the demarcations highly creditable to Captain Gastrell's Superintendence, which is always able.

44. I derive much gratification from the system adopted by Captain Gastrell in the management and conduct of his professional duties, the results of which are very satisfactory, the best test of which is to be found in the following comparison of the direct distances deduced from the Revenue Survey measurements of circuits, with the sides of the Great Trigonometrical Survey. The connections exhibited are evidently very satisfactory.

Seasons.	Description of Work.	Area surveyed in square miles.	Number of hulks or traverse circuits.	Average size of circuits.	Cost.			Average rate per square mile.			Average rate per village circuit.		
					Rs.	As.	P.	Rs.	As.	P.	Rs.	As.	P.
1853-54, {	Professional Survey,	1161.22	1349	531.50	29533	2	2	25	6	11	20	13	2
	Mehalwarce Branch,	0	0	0	261	0	0	0	0	0	0	0	0
1854-55, {	Professional Survey,	1144.22	1774	391.97	30739	3	1½	26	13	9	17	5	1
	Mehalwarce Branch,	0	0	0	1089	0	0	0	0	0	0	0	0
	Difference,	-17.00	+ 425	-139.53	+1205	0	11½	+1	6	10	-3	8	1

43. The rate per square mile is slightly in advance of that of the previous season, whilst the cost per village circuit is in defect, caused by the large number of villages surveyed in Bancoorah and their very small size. The difficulties in the latter District, owing to the denseness of the jungle, were very considerable, added to which, having to carry on independent work in two Districts separated from each other, divided the Establishment and caused delay. The out-turn is nevertheless very satisfactory, and under all the circumstances attendant on the nature of the country, and the demarcations highly creditable to Captain Gastrell's Superintendence, which is always able.

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one line only. The mean average error in a total of 274 miles, or 14,47,294 feet, is ~~0.10~~ ^{3.62} feet, than which it is almost impossible to effect a nearer approximation, considering our means and circumstances. In all, 17 Principal and Secondary Great Trigonometrical Survey Stations have been met with and closed upon by the Revenue Survey Exterior Circuits.

Distances of Great Trigonometrical Survey Stations.	From Revenue Survey.	From Great Trigonometrical Survey.	Error of Revenue Survey.	Error per Mile.
1 Susinia to Radamadapore,	119312.04	119220.4	+ 91.64	4.05
2 Susinia to Karasole,	156135.92	156059.6	+ 76.32	2.58
3 Radamadapore to Karasole,	113198.31	113095.1	+ 103.21	4.81
4 Radamadapore to Manjia,	58770.34	58703.3	+ 67.04	6.02
5 Radamadapore to Kora,	82507.94	82410.8	+ 97.14	6.21
6 Susinia to Manjia,	75335.38	75223.7	+ 111.68	0.81
7 Susinia to Chatna,	31069.75	30982.1	+ 87.65	14.88
8 Susinia to Bancoorah Telegraph,	64378.60	64296.7	+ 81.90	6.71
9 Susinia to Lalghati Telegraph,	104883.91	104836.5	+ 47.41	2.38
10 Susinia to Ramsagur Telegraph,	140446.10	140357.5	+ 88.60	3.33
11 Susinia to Kora,	44583.92	44549.1	+ 34.82	4.12
12 Susinia to Barjora,	95549.78	95544.6	+ 5.18	0.28
13 Karasole to Barjora,	83883.20	83806.3	+ 76.90	4.72
14 Karasole to Kora,	114707.16	114674.5	+ 32.66	1.50
15 Karasole to Ramsagur,	65452.26	65427.1	+ 25.16	2.02
16 Kara to Bancoorah Telegraph,	58623.30	58591.8	+ 31.50	2.83
17 Lalghati to Ramsagur,	37956.14	37921.3	+ 34.84	4.84
Total,	1447294.05	1446300.4	+ 993.65	0.10 ^{3.62}

45. The several maps and other records prepared by this Establishment are noted in the margin, of which the greater portion has been received, and are admirably executed. The Pergunnah Maps of Moorsshedabad are perfectly clear and distinct in all their details, notwithstanding the innumerable intermixtures and interlacings of other pergunnahs and Districts. The Bancoorah Maps are likewise excellent in every essential respect, and being free from the profuse coloring and patch-work appearance entailed in Moorsshedabad, they are fine specimens of topographical drawing.

District Moorsshedabad.

Two Pergunnah Maps, upon a scale of one mile to the inch, containing portions of several other pergunnahs, for the Deputy Surveyor General's Office; a copy of the above two Maps for the Collector; 4 Main Circuit Traverses, single copy, for the Deputy Surveyor General's Office; 480 village plans, in 3 volumes, for the Deputy Surveyor General's Office; 480 village plans in 3 volumes, or duplicates of the above, for the Collector. 74,953 Mehalwaree Chucks triangulated and entered in the Registers.

Area 1,61,782 acres = 252.78 square miles.

District Bancoorah.

Three Circuit Maps upon a scale of one mile to the inch, containing portions of several pergunnahs for the Deputy Surveyor General's Office; a copy of the above 3 Maps for the Collector; 4 Main Circuit Traverses, single copy, for the Deputy Surveyor General's Office; 43 Original Skeleton Sheets, on the new system, for the Deputy Surveyor General's Office; 43 duplicate copies of the above for the Collector.

252.78 square miles, the cost of which, as already stated, is Rupees 1,089, or about 2½ pie per plot. The Thakbust Maps have been pronounced by Captain Gastrell to be well got up in Moorsshedabad, in which the comparisons with the Professional Maps have been always good and satisfactory, whilst those supplied by the Civil Superintendent for the District of Bancoorah were the source of much annoyance and extra labor to the Revenue Surveyor, as stated by him in the correspondence, which has already been laid before the Board and on which orders have been passed. During the current season the Assistant, in temporary charge of this Survey, has reported that the Field-marks are in good preservation. All thannah names, and local names of villages, have been assiduously and carefully collected and examined and finally compared with the lists furnished by the Civil Superintendent and Magistrate.

46. During the past season, no less than 74,953 minor estates have been triangulated for area, and entered in the Registers, the area of which estate amounts to 1,61,782 acres, or 252.78 square miles, the cost of which, as already stated, is Rupees 1,089, or about 2½ pie per plot. The Thakbust Maps have been pronounced by Captain Gastrell to be well got up in Moorsshedabad, in which the comparisons with the Professional Maps have been always good and satisfactory, whilst those supplied by the Civil Superintendent for the District of Bancoorah were the source of much annoyance and extra labor to the Revenue Surveyor, as stated by him in the correspondence, which has already been laid before the Board and on which orders have been passed. During the current season the Assistant, in temporary charge of this Survey, has reported that the Field-marks are in good preservation. All thannah names, and local names of villages, have been assiduously and carefully collected and examined and finally compared with the lists furnished by the Civil Superintendent and Magistrate.

47. In the month of August, Captain Gastrell was removed from his Survey duties to join his Regiment employed with the Sonthal Field Force, and has only just been allowed to return after an absence of five months, and thus, at a critical time, the sources of this indefatigable and excellent Officer could not be devoted towards the completion of the season's work, and which in consequence is now somewhat in arrears. The temporary charge of the Establishment fell on Mr. C. Bradley, the Senior Assistant, who conducted the ordinary current duties and took the Establishment out to commence the Field-work of the present season.

ley is a steady, well-conducted Assistant and has given satisfaction in his purely subordinate position, but he is in no way fit to guide and keep under proper control a large Survey Establishment, being illiterate and deficient in the proper qualities demanded for administrative purposes. It was fortunate, therefore, that Captain Gastrell returned to take charge of his appointment on the 24th January, since the Bancoorah District being close on completion, he will now be enabled to proceed and take up the Jessore District, which he hopes to do by the end of the present month, and which new Survey could not have been started under the superintendence merely of Mr. Bradley. The other Assistants have given every satisfaction. Mr. R. Smart, particularly, has, as usual, rendered good service and is a very efficient Assistant in all branches of his profession. Mr. J. Pickhard, one of the Junior Sub-Assistants, has been transferred from the 1st October last to the Arracan Survey, on the usual augmented allowance for deputation conceded to others proceeding to that Province.

48. As stated in the 83rd para. of last Report, this party was broken up at the commencement of the season under review. Mr. O'Donel returned to his subordinate position in the 1st Division, under Mr. Pemberton, and the Sub-Assistants, Messrs. H. M. Smith and G. Thompson, as well as the Native Assistants, were drafted into the Mymensing and Nuddea Surveys respectively. The expense of the remnant of this Establishment for the three months of the season amounts to Rupees 2,485-13-1, as specified in the margin, after which no Bills were drawn.

Assam Division.

	Rs.	As.	P.
October 1854, ...	966	0	0
November, ..	960	5	4
December, ..	558	13	9
Total, ..	2,485	3	1

49. The probabilities

Arracan Division.
 Assistant Surveyor in charge,
 Mr. H. Porteous,
 Sub-Assistant, Mr. W. H. Pringle.

incapacity to contend against difficulties, or to keep his small party together and at their work. The only Sub-Assistant, Mr. W. H. Pringle, having been attacked at the commencement of the season with fever, which I believe was of no serious importance, took advantage of the circumstance and of the inability of his immediate superior to control him, and I have no hesitation in saying malingered through the entire year. Thus the entire expense of the Establishment has been incurred without any work having been done. Mr. Pringle obtained leave to visit the Presidency for two months on full salary, but on his return refused to proceed out to the District to commence Survey operations, and applied for six months more leave to remain in the Station, without even the support of a medical Certificate. It was evident the Sub-Assistant's object was simply to carry on another trade in the station, and he had the dishonesty to

of a failure in the work of the season on this Survey were anticipated in the 89th para. of my last Report. I regret much to have to confirm this. The season was a dead blank one, not a square mile being returned as completed. This may be said to have been caused, not by the sudden illness of Mr. Porteous, but by his previous state of health and utter inefficiency and incapacity to contend against difficulties, or to keep his small party together and at their work. The only Sub-Assistant, Mr. W. H. Pringle, having been attacked at the commencement of the season with fever, which I believe was of no serious importance, took advantage of the circumstance and of the inability of his immediate superior to control him, and I have no hesitation in saying malingered through the entire year. Thus the entire expense of the Establishment has been incurred without any work having been done. Mr. Pringle obtained leave to visit the Presidency for two months on full salary, but on his return refused to proceed out to the District to commence Survey operations, and applied for six months more leave to remain in the Station, without even the support of a medical Certificate. It was evident the Sub-Assistant's object was simply to carry on another trade in the station, and he had the dishonesty to prefer such an application, at a moment when his place could not be supplied. For this and previous bad conduct, and conviction, Mr. W. H. Pringle has been dismissed from the Department, as per correspondence marginally cited. The expenditure entailed by this Establishment is as follows :—

Deputy Surveyor General to Board of Revenue, No. 31, 18th January 1856.
 Board to Deputy Surveyor General, No. 6, dated 25th January 1856.

Season.	District.	Area surveyed in square miles.	Number of village circuits.	Average size of village circuits.	Cost.	Average rate per square mile.
1854-55,	Akyab	Nothing	.. ..	.. ..	Rs. As. P. 1237 11 3	0 0 0
Total, ..	.. ..	.. ..	.. ..	.. ..	1237 11 3	0 0 0

50. The organization of a proper party of the full strength for the Survey of Arracan, No. 562, dated 20th September 1855. was sanctioned by orders of Government specified in the margin, in accordance with the recommendation given in para. 88 of last Report and subsequent letters, with a grant of Rupees 37,524. Mr. O'Donel has been appointed full Revenue Surveyor in charge on the usual allowances, and the several Sub-Assistants, specified in the margin, have been drafted from other Surveys and entertained, and the whole, including the Native Surveyors, as well as a Native Doctor, arrived at Akyab in November last, and have commenced Survey operations, I trust, with better prospects. The difficulties however as to Jungle and tidal rivers are so great, and the price of labor is so enormous in the Akyab District, that I fear the work must of necessity fall very heavy. The Revenue Surveyor has gone down to the Province, impressed with the importance of the work before him. I have had the opportunity of discussing the subject fully with him, and I have no doubt that all will be done which it is practicable to effect in such a climate. The several Sub-Assistants have been granted special or deputation allowance of Rupees 50 each per mensem, whilst serving in Arracan, without which they could not be expected to go there.

J. H. O'Donel, Esquire, Revenue Surveyor.
 Sub-Assistants—Messrs. A. Phillips, J. Pickhard, G. Thompson, and E. Regnier.
 Mr. H. A. Porteous, Assistant Surveyor, on leave on medical Certificate.

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51. Mr. Porteous, when relieved by Mr. O'Donel, proceeded on leave of absence for fifteen months on half salary, by virtue of Government Orders noted in the margin. The half salary of this Assistant debited to the Survey Department will be a great drain on the Arracan Grant, and considering the short connection of Mr. Porteous with the Department, viz. only from the last year, when he was placed under this Office, it was felt that his half salary ought to have been debited to the Civil Department.

52. Since the date of last Report, and in continuation of para. 96 of the same, the general state of the compilation work, for the Lower Provinces alone, Drawing Department. may be said to have progressed as follows:—

Tirhoot District, showing the Civil and Criminal Jurisdictions, compiled on a scale of 2 British miles = 1 inch. Map of the Rajmuhul Hills, or Damin-i-koh; scale 2 British miles = 1 inch. Ditto of the Baraset Division of 24-Pergunnahs District, in 4 Sections. Scale 1 mile = 1 inch.

Final Geographical Maps— Scale, 4 Br. Miles = 1 inch, ..	}	Moorshedabad,.....	Half compiled.
		Nuddea,	Ditto.
		Goalparah,	Completed.
		Rajshahye,	Ditto.
Index or Preliminary Maps —Scale, 4 miles = 1 inch,.....	}	Moorshedabad,.....	Completed.
		Nuddeah,	Ditto.

53. The Moorshedabad and Nuddea Districts Preliminary Maps have been compiled and lithographed with all possible haste after receipt of the Surveyor's originals, and the final Maps for the India House, which have been urgently called for by the Hon'ble the Court of Directors, are in a very forward state, and will be dispatched through the Surveyor General, as soon as completed.

54. The Nuddea District being one of much importance, and numerous European Planters and land-owners being eager for good Maps, I propose preparing a general Map of the District, on the scale of miles 2 to the inch, which will be a very useful and valuable reference. The Tirhoot District has been lately compiled on the same scale, showing the newly-adjusted Criminal Divisions: this is now in the Press, and will shortly be ready. The Damin-i-koh, or Rajmuhul Hills, on the same scale, has also been brought out at a critical juncture and answered a good purpose.

55. A large Map of the Baraset Division of the 24-Pergunnah District, showing village boundaries on the scale of 1 mile to the inch, has also been prepared and published in four Sections, so as to form one complete sheet at pleasure. This forms a pair with the Allipore Division Map on the same scale, and is a valuable document.

56. The completed Maps of the Malda, 24-Pergunnahs, and Beerbhoom Districts, which were duly transmitted to the India House through the Surveyor General of India in May 1854, for incorporation in the Indian Atlas, as well as for lithography, have not as yet been received back, but may, I trust, be shortly expected. In addition to these, the Geographical Maps of the Rajshahye and Gowalpara Districts have also been transmitted to the Home Authorities, through the same channel last season. Of the Bengal Districts, the only final Map remaining to be compiled, of which the whole of the materials have been just lodged in this Office, is the small District of Pubna, comprising 1,854 square miles, which will be shortly taken in hand. An Index or Preliminary Map, for local and immediate purposes of that portion of the District North of the Ganges River, together with all that completed portion of the Mymensingh District, West of the Brahmapootra River, has been prepared and published and issued. This will supply a want pending the completion of the Mymensing District, which is of so extensive a size, and will occupy in the Survey a couple of seasons more.

57. Of the separate Pergunnah Maps on the one inch scale lithographed, the Districts of Bhaugulpore and Beerbhoom, with the Western portion of Moorshedabad, have been completed. Great exertions were made to bring these maps out for the use of the Military and other official employed against the Sonthals, and they were circulated freely for that purpose, and I have no doubt afforded considerable assistance to the Troops and other officials employed in the several disturbed pergunnahs.

58. The number of lithographed Maps, supplied to official and other authorities of the Bengal Provinces alone on the Public Service, amounts to 1,118, and sold to private parties 456, making a total of no less than 1,574 Maps, exclusive of the Punjab and North-West District Maps furnished on the Public Service in considerable quantities also from this Office during the same period.

Description of Maps.	Supplied to Official Authorities.	Number sold.	Amount realized.
District Maps, showing village boundaries on the scale of 1 mile to the inch,	34	18	124 0 0
District Geographical Maps, scale 4 miles = 1 inch,	260	116	387 12 0
Index or Preliminary Maps, ditto,	50	47	176 0 0
Pergunnah Maps, 1 mile = 1 inch,	452	78	156 11 0
City Maps,	30	12	33 0 0
Geological Maps,	13	25	200 0 0
Location Maps of Darjeeling,	5	0	0 0 0
General Maps on different scales,	274	142	1202 0 0
2-Mile District Maps of the N. W. and Punjab,	0	18	59 0 0
	1118	456	2338 7 0
Earnings of the Lithographic Press for Printing Work performed, ... ..	.....	.....	327 6 4
Balance on last Account, <i>vide</i> 98 para., ... ..	.....	.....	996 1 0
Total, ... ..	.....	.....	3661 14 4
Deduct Charges incurred for coloring impressions by contract, ... ..	.....	.....	468 11 3
Balance to credit of Government, ... ..	.....	.....	3193 3 1

59. The sum of Rupees 2,338* has been realized, or is in course of collection, by the sale of Maps to the public from this Office, besides which a considerable sale is effected at Agra by

* Of this sum Rupees 1,500 has since been deposited in the General Treasury.

the Curator of Government Books, the proceeds of which are credited to the North-West Government. The impressions sold and supplied to the Curator at Agra are colored by contract, and on which account the sum of Rupees 463 has been expended. This, deducted from the total Assets, leaves a balance of Rupees 3,193 to the credit of Government, which will be paid into the General Treasury as usual, as soon as the outstandings can be collected.

60. The coloring and correspondence, connected with the issue of so large a number of these maps, the collection of money and keeping of accounts, have thrown a vast amount of work on my limited Establishment, which could only be got through by means of extra labor and exertions on the part of some of my Assistants, and which I am happy to say was cheerfully responded to. The preparation again of Thannah Maps, showing the civil and criminal jurisdictions of the District, and the business connected with Captain Sherwill's deputation on this duty, have added materially to the duties of this Office, for the efficient and satisfactory performance of the whole of which (including the Punjab and the North-Western Provinces Surveys,) my Establishment is no longer able to compete, and must now be put on a better footing, for which due application will be made.

61. During the past year, I have had the misfortune to lose my Head Assistant, Mr. Alexander Daniell, who died after a few days' illness on the 19th of April last. I cannot sufficiently express my regret at the loss of this valuable Assistant, who had devoted all the energies of a long life to the Department, and of whom I have frequently had to speak in terms of high commendation. Pending the filling up of the vacancy, which occupied some months, I received the most cordial and zealous assistance from Mr. W. R. M. Graham, Superintendent of the Drawing Branch, to whom I am indebted at all times for the most effective superintendence of his own immediate Department, as well as for general co-operation in all matters. To supply the place of Mr. Daniell, it was necessary to seek for candidates from the Revenue Survey Department, and after a careful consideration of the claims of the several candidates, Mr. E. W. Hoppner, Senior Assistant on the Jubbulpore Survey, and who was in charge of a detached Survey party in the Goruckpore District, was selected with the approval of the Lieutenant-Governor, North-Western Provinces, under whose jurisdiction he was serving, and joined the Office on the 1st of September last. Mr. Hoppner bears the character of a very able Surveyor, and excellent Draftsman, of twenty four years' service in the Department; and from the short time he has been with me, he promises to be of the most essential service, and I congratulate myself on having found so able and hard-working an Assistant.

62. The progress of the re-adjustment of the several Behar Districts into Police jurisdictions has been stopped by the illness and departure to Europe of Captain Sherwill on medical Certificate. The Districts specified in the margin have been completed, but the latter District has been again upset by the provisions of Act XXXVII. of 1855, forming certain pergunnahs and portions of pergunnahs, and portions of thannahs, into a Non-Regulation District for the Sonthals. On the departure of Captain Sherwill, the Government of Bengal called for my opinion as to

the advisability of carrying on the duty at present, and as no Officer could be spared from the Survey Department, and as the Pergunnah Maps, showing village boundaries, were not lithographed for the few remaining Districts, which had been surveyed, I recommended that the duty should be suspended to allow time for the Survey to advance, and for the Pergunnah Maps to be published; for without this necessary preliminary, the local authorities could not enter into the proper enquiries; consequently nothing is at present doing in respect of the formation of the old fiscal Districts into compact and convenient criminal jurisdictions.

63. The sale of lithographed and engraved Maps in this Office having become a business of itself, and most distracting to more important and legitimate duty, application was made to the Government of India for permission to transfer it to the book-sellers of Calcutta, who are able to give a much wider circulation to the advertisements as to what Maps are available to the public than could be done by myself. All Maps required by the public, are therefore now

Shahabad,
Sarun, including
Chumparan.
Patna.
Tirhoot.
Behar.
Monghyr.
Purneah.
Bhaugulpore.

disposed of by commission sale, whilst Officials on the Public Service are supplied, as usual, gratis from this Office. A considerable reduction was at the same time made in the price of all our lithographed Maps, so as to place them within the reach of every body, and also to assimilate the prices to those fixed by special orders of the Hon'ble the Court of Directors for the engraved sheets of the Indian Atlas. I anticipate a larger Revenue from this change, whilst a wider dissemination of our Revenue Survey Maps must prove beneficial both to the Government and the people of a District.

64. The Lithographic Branch of this Department has been very active, and a large amount of work has been turned out during the year 1855. The printing of the Postage Stamps has continued during the greater part of the year, but ceased on the 3rd November last, on the arrival of the English-manufactured Stamps. The following Statement shows the principal Maps struck off, and the number of impressions printed. Many of the Maps are of an elaborate character. Those marked thus * were drawn on the transfer paper by extra Draftsmen, the expense being paid by the Department applying for the same; but the whole of the printing was executed by the regular Establishment:—

DESCRIPTION OF MAPS, &c.	Number of Plans.	Number of Impressions.	REMARKS.
General, ..	8	11686	Nagpore Territory*; Kotah Chukhata Bhabur; Martaban along the left Bank of the Sitang River*; Territory of Oudh*; Prince of Wales' Island*; Province Wellesley*; North Sheet, ditto South Sheet*; and Maps of India in Nagree character; Sketch Map of the Saugor Division.
District, ..	7	1780	Goordaspore and Umritsur, Punjab Proper, 2 miles = 1 inch; Jullundhur Doab 4 miles = 1 inch; Beerbhoom, 8 miles = 1 inch; Physical Section of ditto; Baraset Division of 24 Pergunnahs, 1 mile = 1 inch, in 4 Sections.
Pergunnah, ..	31	2257	Kunhoulie, Delavarpore, Tajpore, Nowton Bhala, Pudree, Buchour, Allapore, Ahis, Dhurour, Puckahee and Hajepore District, Tirhoot; Goida, Narceddegur, Chundweh, Mullncegopal, Hendweh, Belputtah, Suhrce, Hurrukpore, and Raj Mehal Hills, or Damiu-ikoh, District, Bhaugulpore; Goas, Kasheepore, Furkhabad, and Chandpore, District Moorshedabad; Richa, Roodarpore, Zillah Bareilly*; Tuppeh Kundit Kurayuh, Shahalumpore, Inchapooker, and Suroopsingh, District Beerbhoom, and Bazpore, Zillah Moradabad.
Miscellaneous Plans, Charts, &c., ..	9	1754	Civil Station of Pubnah*; Plan of 6-Pounder Gun and 12-Pounder Howitzer Field Carriage*; Chart of the Preparis Channel*; Chart of Bassein River*; Design for Jail Palisades*; Design for Jail Cook-sheds.*
Survey Dept. Forms, ..	117	120526	
	172	128003	
POSTAGE STAMPS.	<i>Blocks.</i>	<i>Heads.</i>	
Half Anna, Blue, ..	48831	4687776	
One Anna, Red, ..	15834	1520064	
Four Anna, Red and Blue, ..	09912	1059984	
Total, ..	164577	7267824	
Grand Total, ..	164749	7395827	

65. The cessation of the Postage Stamps printing, will now enable me to turn the entire time of the whole Establishment, to the Mapping Department, and I consequently hope to effect much during the current year. The general working of the Press, and the value of the Drawing and Printing performed, may be roughly estimated as follows:—The sum of Rupees

100

327-6-4 has been realized for printing work done, and duly credited in the Statement given in para. 58.

Description.	Number of Copies printed.	Value of Paper used.	Value of Drawing.	Value of Printing.	Total Amount of Drawing and Printing.	Amount of Establishment Charges.	Remarks.
General,			6934	6982			The sum of Rupees 327-6-4 has been realized for Printing, executed for Municipal Department and other parties, and carried to Credit of Government.
District,			Preparation of Stamps.	Stamps.			
Pergunnah,			3968	16457			
Miscellaneous,							
Survey Department,			10902	23439			
FORMS.							
Postage Stamps,							
Four,	Total of Maps, 128 6/3	Cannot be properly ascertained.					
One, and Half Anna,	Total of Stamps, 7267824						
	Grand Total, 7395827						

Total Amount of Drawing and Printing, Rupees 34,341

Amount of Establishment Charges from 1st January to 31st December 1855, .., 23,004

Amount to Credit of Government, Rupees 11,337

66. The above shows a sum of Rupees 1,137 as balance to the Credit of the Press, after deducting the total Expenses incurred, sufficiently proving the utility of the Establishment, which, I am happy to say under Mr. H. M. Smith's immediate superintendence, is daily improving. The labors connected with the Postage Stamps, which have been fully acknowledged by the Government of India, have well marked the energy and ability of this Assistant, of whom I have so frequently had occasion to speak in terms of high commendation.

I have, &c.,

(Signed) H. L. THULLIER,
Deputy Surveyor General.

REVENUE SURVEYOR GENERAL'S OFFICE ; }
Calcutta, 15th February 1856. }

Table A. 101

GENERAL RETURN of Professional Work for Season 1854-55, namely, from the 1st of October 1854 to the 30th of September 1855, exhibiting Cost, Area, and average Rates per Square Mile and per Circuit.

DIVISIONS.	Names of Superintending Officers.	Names of Districts.	PROFESSIONAL WORK.															
			Number of Per- gunnabs.	Number of Per- gunnabs of Main Circuits.	Number of Mou- zils.	Number of Hul- kas or Traversé Circuits.	Average size of Traversé Circuits.	Area Surveyed.		Cost of Work in- cluding Guard.	Average Rate per Square Mile.	Average Rate per Circuit.						
1st	{ Mr. J. J. Pemberton, Re- venue Surveyor, ... }	{ Pubna, ... }	28	{ 10 }	1136	1060	324.56	354637.98	554.121	19589	6	85	5	7	18	7	8	
		{ Jessore, ... }	18	{ 10 }	349	382	436.75	145001.31	226.563	8009	8	85	5	7	24	1	11	
2nd	{ Major R. Smyth, Revenue Surveyor, ... }	{ Nuddia, ... }	5	{ 9 }	25	24	581.45	138552.27	21.804	770	13	35	5	9	32	1	11	
		{ Rajshahye, ... }	5	{ 9 }	27	20	379.10	758233	11.844	418	13	4	35	5	11	20	15	0
3rd	{ Mr. A. Wyatt, Revenue Surveyor, ... }	{ Ganges, Gorale, Koomar, Hanoo, and Chundua River Circuits, Portion of Establishment employed in Mehalwaree Calculations,	0	{ 0 }	0	9	0	25204.52	39.38	4892	3	11	0	0	0	0	0	
		{ Nuddia, ... }	56	{ 19 }	1537	1445	432.963	546381.41	853.72	* 31148	11	11	85	5	7	20	14	1
4th	{ Captain J. E. Gastrell, Offg. Revenue Surveyor,	{ Nuddia, ... }	6	{ 3 }	745	757.39	574860.26	898.22	29930	3	7	31	3	0	38	13	1	
		{ River Circuits, Mehalwaree Calculations,	0	{ 0 }	0	12	0	39253.99	61.34	815	11	9	0	0	0	0	0	
5th	{ Mr. H. A. Porteous, Asst. Revenue Surveyor, ... }	{ Mymensing, ... }	19	{ 9 }	2139	2172	318.52	691921.17	1080.97	30745	15	4	31	3	0	38	13	1
		{ Tipperah, ... }	3	{ 3 }	0	0	0	0	0	1006	0	0	0	0	0	0	0	
6th	{ Mr. J. H. O'Donel, Asst. Revenue Surveyor, ... }	{ Dacca, ... }	0	{ 0 }	64	0	0	0	0	1089	0	0	0	0	0	0	0	
		{ Sylhet, ... }	0	{ 0 }	0	0	0	0	0	30738	3	13	28	7	10	15	6	10
Grand Total and averages	{ ... }	{ Moorshedabad and River Circuits, ... }	26	{ 9 }	2203	2172	318.52	691921.17	1080.97	35150	14	6	31	9	3	15	11	6
		{ Bancoorah and River Circuits, ... }	2	{ 2 }	491	467	509.25	239704.	374.53	10659	14	0	27	9	5	22	9	9
REVENUE SURVEYOR GENERAL'S OFFICE;	{ ... }	{ Assam for October, November, and December 1854,	0	{ 0 }	0	0	0	0	0	12371	11	3	0	0	0	0	0	
		{ Mehalwaree Calculations and Cost of Assam and Attracon Surveys, ... }	90	{ 39 }	6592	6162	475.21	258461.83	4038.47	143729	11	24	30	15	2	20	4	5

* From this sum a deduction of Company's Rupees 967-13-10 has been made, as explained in para. 14, leaving Company's Rupees 30,180-14-1 for averages.

H. L. THUILLIER,
Deputy Surveyor General.
Calcutta, 15th February 1856.

102.

Table B.
GENERAL STATEMENT of Expense of Native Establishment of each Survey, for Season 1854-55.

Surveys.	Superintending Officers.	Khansrah including Pur- chasing and Contract Work.	Professional Survey in- cluding Guard and Mehtaware Computers.	Total.
1st or Northern Division, Pubna,	J. J. Pemberton, Esquire,	0 0 0	10675 7 4	10675 7 4
2nd or Southern Division, Nuddea,	Major R. Smyth,	0 0 0	12160 12 3	12160 12 3
3rd or Eastern Division, Mymensing,	A. Wyatt, Esquire,	0 0 0	13350 3 3	13350 3 3
4th or Western Division, Moorshedabad,	Captain J. E. Gastrell,	0 0 0	12610 3 1½	12610 3 1½
5th or Arracan Division, Akhyab,	H. A. Porteous, Esquire,	0 0 0	4871 11 3	4871 11 3
6th or Assam Division,	J. H. O'Donel, Esquire,	0 0 0	574 14 6	574 14 6
	Total Native Establishment,	0 0 0	54243 3 8½	54243 3 8½
	Superintending Officer and Contingencies, ..	0 0 0	40931 7 8	40931 7 8
	European Assistants,	0 0 0	48554 15 10	48554 15 10
	Total corresponding with Table A,	0 0 0	143729 11 2½	143729 11 2½

H. L. THULLIER,
Deputy Surveyor General.

Table E.

103

GENERAL STATEMENT of Sums actually drawn, inclusive of Guards for the six Revenue Surveys, during the Season 1854-55.

	Superintending Officers, and Contingent Allowance.	European Assistants.	Native Establishment inclusive of Mehalware Computers.	Guards.	TOTAL.
October 1854,.....	3792 0 0	3650 0 0	3094 0 2½	114 0 0	10650 0 2½
November ".....	3792 0 0	3600 0 0	4329 14 5	157 11 0	11879 9 5
December ".....	3713 4 7	3549 15 10	5814 13 2	237 13 0	13315 14 7
January 1855,.....	3202 3 1	4145 0 0	5910 12 5	262 7 4	13590 6 10
February ".....	3304 0 0	4245 0 0	6084 7 1	263 8 0	13876 15 1
March ".....	3304 0 0	4195 0 0	5881 9 9	259 6 7	13640 0 4
April ".....	3304 0 0	4195 0 0	5186 10 11	228 8 6	12914 3 5
May ".....	3304 0 0	4195 0 0	4707 9 3	173 4 0	12379 13 3
June ".....	3304 0 0	4195 0 0	2834 7 1	111 12 8	10495 3 9
July ".....	3304 0 0	4195 0 0	2780 0 1	101 0 0	10380 0 1
August ".....	3304 0 0	4195 0 0	2531 5 9	101 0 0	10131 5 9
September ".....	3304 0 0	4195 0 0	2996 2 6	101 0 0	10596 2 6
Total drawn for each Class,.....	40931 7 8	48554 13 10	52131 12 7½	2111 7 1	143729 11 2½
Total passed for ditto,.....	42168 0 0	58095 0 0	67746 0 0	4968 0 0	172977 0 0
Total Savings to Government,.....	1236 8 4	9540 0 2	15614 3 4½	2856 3 11	29247 4 9½

Of the above Statement, the following Table exhibits the Expense under each Class, and the Savings on each of the six Revenue Surveys.

Surveys.	Contingent Allowances.	Number.	Assistants.	Number.	Guards.	Number.	Native Surveyors.	Number.	Classes or Mehalware Computers.	Total Expense.	Total Savings.	Deduct on account of Captain Shervill's pay for one year at 520 per mensem, ..	
												Amount saved after payment of all fixed Expenditure,	6312 0 0
1st or Northern Division, Pubna,.....	8712 0 0	611761 4 7	7	362 0 0	0 80	4544 2 11	112	5053 6 7	716 13 10	31148 11 11	6375 4 1		
2nd or Southern Division, Nudda,.....	8610 3 1	5 9975 0 0	12	469 0 0	0 40	5584 8 6	118	5291 8 0	815 11 9	30745 15 4	6778 0 8		
3rd or Eastern Division, Myntensing,.....	8712 0 0	713088 11 3	12	552 1 10	30	5287 0 7	160	6525 0 10	1006 0 0	35150 14 6	2373 1 6		
4th or Western Division, Moorshedabad,.....	8712 0 0	510505 0 0	12	434 6 8	37	5392 8 3	125	5694 4 2½	1089 0 0	31827 3 1½	5696 12 10½		
5th or Arnacon Division, Akyab,.....	4800 0 0	1 2700 0 0	4	281 14 7	20	1648 6 10	49	2941 5 10	0 0 0	12371 11 3	6240 4 9		
6th or Assam Division,.....	1385 4 7	2 525 0 0	3	32 0 0	8	320 7 4	21	222 7 2	0 0 0	2485 3 1	1783 12 11		
Total,.....	40931 7 8	..48554 15 10	..	2111 7 1	..	22772 2 5	..	25738 0 7½	3626 9 7	143729 11 2½	29247 4 9½		

52131 12 7½

H. L. THULLIER,
Deputy Surveyor General.

REVENUE SURVEYOR GENERAL'S OFFICE;
Calcutta, 15th February 1856.

Table F. 104

STATEMENT of the Savings in each Class of the under-mentioned Surveys respectively, for season 1854-55.

Surveys.	Superintending Officers.	Superintending Officers and Contingent Allowance.	Assistants.	Native Establishment inclusive of Medal-ware Calculations.	Guards.	TOTAL.
1st or Northern Division, Pubna,	Mr. J. J. Pemberton, ..	0 0 0	1918 11 5	3566 8 8	790 0 0	6375 4 1
2nd or Southern Division, Nudda, ..	Major R. Smyth, ..	101 12 11	3705 0 0	2298 3 9	683 0 0	6778 0 8
3rd or Eastern Division, Mymensing, ..	Mr. A. Wyatt, ..	0 0 0	591 4 9	1161 14 7	619 14 2	2373 1 6
4th or Western Division, Moorshedabad, ..	Captain J. E. Gastrell, ..	0 0 0	3175 0 0	1804 3 6½	717 9 4	5696 12 10½
5th or Arracan Division, Akyab, ..	Mr. H. A. Porteous, ..	1056 0 0	0 0 0	5178 3 4	6 1 5	6240 4 9
6th or Assam Division, ..	Mr. J. H. O'Donel, ..	78 11 5	150 0 0	1515 1 6	40 0 0	1783 12 11
	Balance as shown in Table E.	1236 8 4	9540 0 2	15614 3 4½	2856 8 11	29247 4 9½

Savings.	Excess for Superintending Officers.	Excess for Assistants.	Excess for Native Establishments.	Excess for Guards.
1st or Northern Division, ..	0 0 0	0 0 0	0 0 0	0 0 0
2nd or Southern Division, ..	0 0 0	0 0 0	0 0 0	0 0 0
3rd or Eastern Division, ..	0 0 0	0 0 0	0 0 0	0 0 0
4th or Western Division, ..	0 0 0	0 0 0	0 0 0	0 0 0
5th or Arracan Division, ..	0 0 0	0 0 0	0 0 0	0 0 0
6th or Assam Division, ..	0 0 0	0 0 0	0 0 0	0 0 0

REVENUE SURVEYOR GENERAL'S OFFICE; }
Calcutta, 15th February 1856.

H. L. THUILLIER,
Deputy Surveyor General.

No. 783. 105

FROM

THE SUPERINTENDENT OF SURVEYS,
1ST OR NORTHERN DIVISION,

TO

THE SECRETARY TO THE BOARD OF REVENUE,
LOWER PROVINCES,
Fort William.

Dated Berhampore, the 1st December 1855.

SIR,

I HAVE the honor to forward herewith the general Returns for the 1st Division for the year 1854-55 ending 30th September last, and with reference thereto to submit the following remarks upon the progress effected in the several Districts by my subordinates and myself.

2. The annexed Memorandum exhibits the nature and extent of the work effected during the period under review.

Names and description of Officers and period during which employed.	Villages demarcated and rendered ready for Survey.	Boundary disputes decided.	Enquiry for excess and missing lands.	Other Miscellaneous Cases.	Appeals.	Arrears of Khansah deposited of.	Registers, Mouzaware and Mehalware.		Duplicate copies of Maps.	Purneah Milicks traced out.
							English.	Vernacular.		
Mr. E. G. Birch, Superintendent, from 1st October 1854 to 9th July 1855,	0	0	2	549	36	0	22	16	319	0
Mr. J. Watson, Officiating Superintendent, from 10th July to 30th September 1855,	0	0	1	241	45	0	0	0	0	0
Mr. J. G. Morris, Assistant Superintendent from 10th October 1854 to June 1855,	0	42	183	197	0	0	2	13	87	107
Baboo Iscen Chunder Dutt, Deputy Collector, from 1st October 1854 to 30th September 1855,	326	44	25	472	0	467	0	0	181	0
Baboo Khetter Mohun Mookerjee, Deputy Collector, from 15th October 1854 to 31st July 1855,	1030	91	66	558	0	0	0	0	148	0
Mr. W. H. Ryland, Deputy Collector, from 1st August to 30th September 1855,	275	20	11	101	0	0	0	0	687	0
Baboo Hurchunder Ghose, Deputy Collector, from to 30th September 1855,	581	64	140	210	0	457	0	0	657	0
Ali Ahmed Khan, Deputy Collector, from 1st October 1854 to 30th September 1855,	0	44	332	415	0	457	0	5	180	0
Total,	2212	305	760	2743	81	1381	24	34	2265	107

3. The new demarcations in the Rungpore District were commenced by Baboo Khetter Mohun Mookerjee with his regular Field Establishment about the middle of December. This Deputy Collector, according to my instructions, took up the South-western portion of the District, commencing from where the Surveyor had left off in 1852-53 on the surveyed boundary line. To prevent any confusion between the different field parties, I divided the circuits so that rivers should be the boundaries, and made the Currutiya the boundary of the demarcations between Dinagepore and Rungpore. In the end of March, Deputy Collector Hurchunder Ghose sent a portion of his Field Establishment into the circuit allotted to him in Rungpore, and by the first week in April the whole of his Field Establishment was at work in the Rungpore District, the Deputy Collectors respectively continued in the field until the middle and latter part of June.

4. The tract of country which has been demarcated and rendered in every respect ready for Survey, including decision of boundary disputes and internal demarcation, where necessary, contains 1,886 villages and covers an estimated area of 1,299 square miles. Taking into consideration that the full strength of the Field Establishment was not employed throughout the season, and allowing for the obstacles resulting from the prevalence of jungle in the South-west portion, and the general unhealthiness of the Rungpore District, which rendered several of the most experienced Ameens unfit for work for the whole season, the area disposed of is greater than I had any hope of effecting. It is the largest area which has been hitherto demarcated under the new system in one season in any Division, excepting the out-turn of the 2nd Division in 1852-53 in the healthy District of Nuddea where an Establishment of greater strength than mine was employed. Out of this large number of villages it has been necessary to measure only 242 villages by Mehalwaree measurement. Copies of all the Village Maps as well as the Circuit Maps of the area demarcated have been made over to the Surveyor previous to his taking the Field.

5. The arrears of internal measurement in the District of Bogra were very heavy, but were all disposed of by Baboo Hurchunder Ghose before he proceeded to take up the new demarcations in Rungpore. The Survey of Bogra District has embraced but few of the pergunnahs although the greater portion of the Criminal jurisdiction has been finished. Out of 45 pergunnahs on the Rent-roll, 13 only have been completely surveyed. In others, several villages are detached in the Dinagepore and Rungpore Districts, and have not been yet demarcated.

6. The arrears of the internal measurement outstanding in the Rajshahye District amounted at the close of last year to 61. An additional number of 133 villages had to be brought on the file for measurement during the year, making a total of 194 villages. These have all been disposed of by Moulvee Ali Ahmed Khan.

7. In the Pubna District a large number of villages marked for internal measurement were in arrears at the close of the last official year. Further investigations considerably increased the number. The arrears to the North of the Ganges were made over to Moulvee Ali Ahmed, and have all been disposed of by that Deputy Collector. The remainder of this District to the South of the River Ganges was assigned to Baboo Issen Chunder Dutt. He was directed to co-operate with the Surveyor in the Field, correct any errors, and also to bring up any arrears of internal measurements. The Deputy Collector found a far more difficult task than I had anticipated for him; the old demarcation papers had been so incorrectly prepared, that it became necessary to re-demarcate several villages in different pergunnahs, and the area thus demarcated anew, is estimated at 213 square miles. A number of villages in excess of those entered as the balance pending in last year's Statements, were found to require internal delineation, and there is yet three months' work in the field to dispose of the newly-discovered arrears still remaining in Pubna.

8. The number of villages in arrears disposed of by Khusreh and internal measurement in Pubna, Rajshahye, and Bogra, aggregates the large amount of 1,144, viz. 1,110 by Mehalwar measurement and 34 by Khusreh, exclusive of the number of villages newly demarcated. The 1,110 villages comprise no less than 24,689 plots, and this will give some idea of the excessive intricacy of the intermixture of property, and the consequent difficulty and delay which must occur in the preparation of the Registers in this Division of the Survey.

9. The measurement of the Purneah Miticks and all inquiries connected with the District, as well as the Vernacular Registers of the outstanding pergunnahs, were completed by the Assistant Superintendent Mr. Morris previous to his removal from the Department in June. The English Registers are under preparation and will very shortly be completed.

10. The Mouzawar and Mehalwar Registers of 34 pergunnahs, with the large aggregate of 11,636 villages, have been completed in the Vernacular during the year; while considerable progress has been made in the preparation of the Registers of some of the remaining pergunnahs.

11. A large number of appeals were instituted in the third quarter after my departure on leave. All that were fit for decision before I left, I disposed of. Forty-five cases were disposed of by Mr. Watson while he was officiating for me.

12. Copies of the Maps of the season's work have been disposed of, and several volumes of Maps bound for the Board and the Collector.

13. The expenses of the Division for the year aggregate Rupees 73,967-3-10. Exclusive of this amount, the sum of Rupees 4,758-11-6½ has been disbursed from the savings of former years on account of extra aid required to clear off the file of Khusreh arrears. It is impossible to estimate, with any degree of accuracy, the cost per square mile of the new demarcations, as old and new work have been carried on simultaneously, one Deputy Collector alone having been employed during the whole season in the newly-demarcated tract.

14. There is no other heading in the Statement to which reference appears to me to be necessary in this Report. The hope expressed by the Controller in the 18th para. of his last Annual Report relative to this Division, has been almost, if not entirely, fulfilled; the old Khusreh arrears which have so long impeded all progress in this Division have been cleared off. A field more than sufficient for the requirements of the Revenue Surveyor has been demarcated in Rungpore. The Registers of only 6 pergunnahs of Rajshahye, now under preparation, have to be completed. Of the remaining 10 pergunnahs, 3 cannot be taken up till Dinagepore is finished, and 4 I have recommended to be transferred to other Districts. The Survey Volumes of last season's work have only lately been received from the Surveyor, and the data for the Registers being now in my office, those of the Pubna District will at once be taken up. The Registers of Rungpore and Bograh must proceed *pari-passu*. Moulvee Alli Ahmed, the Deputy Collector, appointed expressly to assist me with the Registers, will be available for other employment at the close of the current quarter.

15. During the last three months of the official year, I was obliged to be absent from my post, and Mr. Watson had charge of the Superintendency for that period. For nine months it was under my control. During the field season I visited successively the Districts of Pubna, Rajshahye, Bograh, and Rungpore, to supervise the proceedings of my subordinates in the field.

16. It only remains for me to place on record my opinion of the manner in which the several Officers employed in the Division have discharged their duties.

17. Mr. Morris continued up to the time of his departure to give me most valuable assistance; in losing him the Department has lost an experienced and energetic Officer.

18. Of the Deputy Collectors employed, Baboos Issen Chunder Dutt and Hurro Chunder Ghose have given me much satisfaction. Baboo Issen Chunder had a difficult task assigned to him, and exerted himself to the utmost in the discharge of his duties; I beg respectfully to recommend that this Deputy Collector should be promoted to a higher class than that in which he is at present ranked. The manner in which he has conducted his duties has always given me satisfaction, and I am glad to observe that Mr. Watson, in his Report for the fourth quarter, also speaks so favorably of this Officer. In my opinion he has shown himself worthy of occupying a higher position than he does in the classification list of Uncovenanted Deputy Collectors; and the Board will observe that the late Controller, in para. 51 of his last Annual Report, especially recommends the promotion of this Officer from the 5th to the 4th Class. I trust that the favorable opinion expressed in last year's Report and repeated in this may induce the Board to recommend this Officer for promotion. His colleague, Baboo Hur Chunder, has only lately been promoted, and any application for his promotion now might be deemed premature. Baboo Hur Chunder has worked very well, and will, I doubt not, by continued good service and exertion in the Department, ensure his future promotion.

19. My official connection with Mr. Ryland commenced subsequently to the close of the official year. Mr. Watson has spoken very highly of this Officer in the fourth quarter's Report (an extract from which I give in the margin.) I may add that from what I have subsequently seen of Mr. Ryland's work, I quite agree with Mr. Watson in thinking that he is likely to "prove a valuable Officer in the Survey" Department. Mr. Ryland, since the close of the official year obtained the promotion which I should have otherwise solicited for him in this Report.

"I consider Baboo Issen Chunder Dutt and Mr. Ryland deserve especial notice for industry and intelligence. Mr. Ryland was transferred to the Survey Department against his own wishes (so I understand) and to his own personal inconvenience; and he took charge of an Office more than usually complicated, in consequence of the protracted illness and death of the late incumbent Baboo Khettermohun Mookerjee; and the manner in which he has under the circumstances devoted himself to introduce order and regularity into the Office, as well as to attain a practical knowledge of the new duties, is extremely creditable to him. If Mr. Ryland continues to exert himself as he has begun, he will prove a valuable Officer in the Survey."

20. Moulvee Ali Ahmed Khan has disposed of a good deal of field work. A task new to him under the new system. The manner in which he has conducted his duties has given me satisfaction, and amongst his other work he has completed the Mouzawar and Mehalwar Register of the most difficult pergunnah in the Rajshahye District.*

21. With the aid of the efficient Deputy Collectors to be employed in the current year, I anticipate a new area for the 1st Division. The year under review is the first in which the new system of demarcation has been fairly tried in this Division, and the result has shown that my Field Establishment can compete with those of the other Divisions. There need be, I think, no fear that increased Civil Establishment cannot provide full work for the Revenue Surveyors.

I have, &c.,

(Signed) E. G. BIRCH,
Superintendent of Survey, 1st Division.

* I beg to recommend that this Deputy Collector be promoted from the 6th to the 5th Class.

No. 18.

109

FROM

THE SUPERINTENDENT OF SURVEY,
2ND OR SOUTHERN DIVISION.

TO

THE SECRETARY TO THE BOARD OF REVENUE,
LOWER PROVINCES,
Fort William.

Dated Burdwan, the 10th December 1855.

SIR,

I HAVE the honor to submit the General Returns of the 2nd Division Superintendency, ending 30th September 1855, together with a Memorandum* from Mr. H. M. Reid, connected with the work of District Bancoorah.

2. The following Statement exhibits the nature and extent of work performed in the Burdwan District :—

Names and Designation of Officers.	Villages demarcated during the season.	Boundary disputes decided.	Enquiries regarding excess and missing land.	Appeals.	Other Miscellaneous works.	Registers, Mouzavaree and Mehalvaree, completed.	Duplicate copies of Maps.
Mr. H. M. Reid, Superintendent,.....	0	17	0	0	0	0	0
Major R. Smyth, Superintendent,.....	0	0	0	0	59	0	0
Baboo Doorgapersaud Ghose, Deputy Collector,.....	1005	138	7	0	118	0	347
Baboo Tarachand Ghose, Deputy Collector,.....	1023	217	19	0	141	0	157

3. The demarcation of the Burdwan District was commenced in January 1855, but only with a portion of the Field Establishment. During the subsequent months, Peshcars and Ameens joined the Burdwan work, as they could be spared from the Bancoorah District ; but it was not till the 15th July that the whole Establishment had actually joined. Taking the various dates on which the Ameens did join, the actual time expended on work for 100 Ameens is 6½ months. In excess of this, there were 50 extra Ameens placed on the work for three months, agreeably to the Board's letter No. 105, dated 30th May, and subsequently sanctioned by the Government.

4. The tract of country demarcated comprises 13 pergunnahs, viz. :—

Pergunnah Burdwan, partly,	} By Deputy Collector Doorgapersaud Ghose.
„ Choteepore,	
„ Rancehattee,	
„ Umbeekah,	
„ Rajjipore,	
„ Havelee, partly,	
„ Shahabad, ditto,	
„ Nullohee,	} By Deputy Collector Tarachand Ghose.
„ Monohursahee,	
„ Satsoikah,	
„ Dherjiah,	
„ Indranees, &c.,	
„ Jangecrabad, &c.,	

* Mr. Reid will forward this memorandum himself.

bounded on the East by the River Bhaugiruttee ; on the North by the Moorshedabad District, and on the South by the Hooghly District. The number of villages contained within this work is 2,033, comprised within 1,336 hulkas for Survey, and the estimated area is 1,000 square miles.

5. Agreeably to the Board's sanction conveyed in their letter No. 123, dated 8th June 1855, and in reply to mine No. 2, dated 1st June, I have postponed the internal measurements of 627 villages comprised within 346 hulkas, till the ensuing cold season. It was found impracticable to perform these measurements correctly, whilst the country was so much under water, and I therefore directed the Ameens to continue the demarcation of external boundaries of villages, which could be easier effected, so as to prevent the Survey operations being impeded for want of thakbusts. The internal measurements of the above 346 hulkas, will be commenced on in December by a portion of the Ameens, and the remaining Ameens will progress with new work, to the westward of that now prepared, copies of the external boundary being furnished to the Surveyor for his guidance.

6. By the Statement showing the number of chucks of internal demarcation, the Board will observe, that they have been very heavy, comprising 32,028 plots, averaging on the number of hulkas, as yet entirely completed, 33 plots per hulka of the whole number of hulkas, viz. 1,336 prepared for Survey. Only 30 had external demarcation ; the remainder have all more or less internal measurements in them.

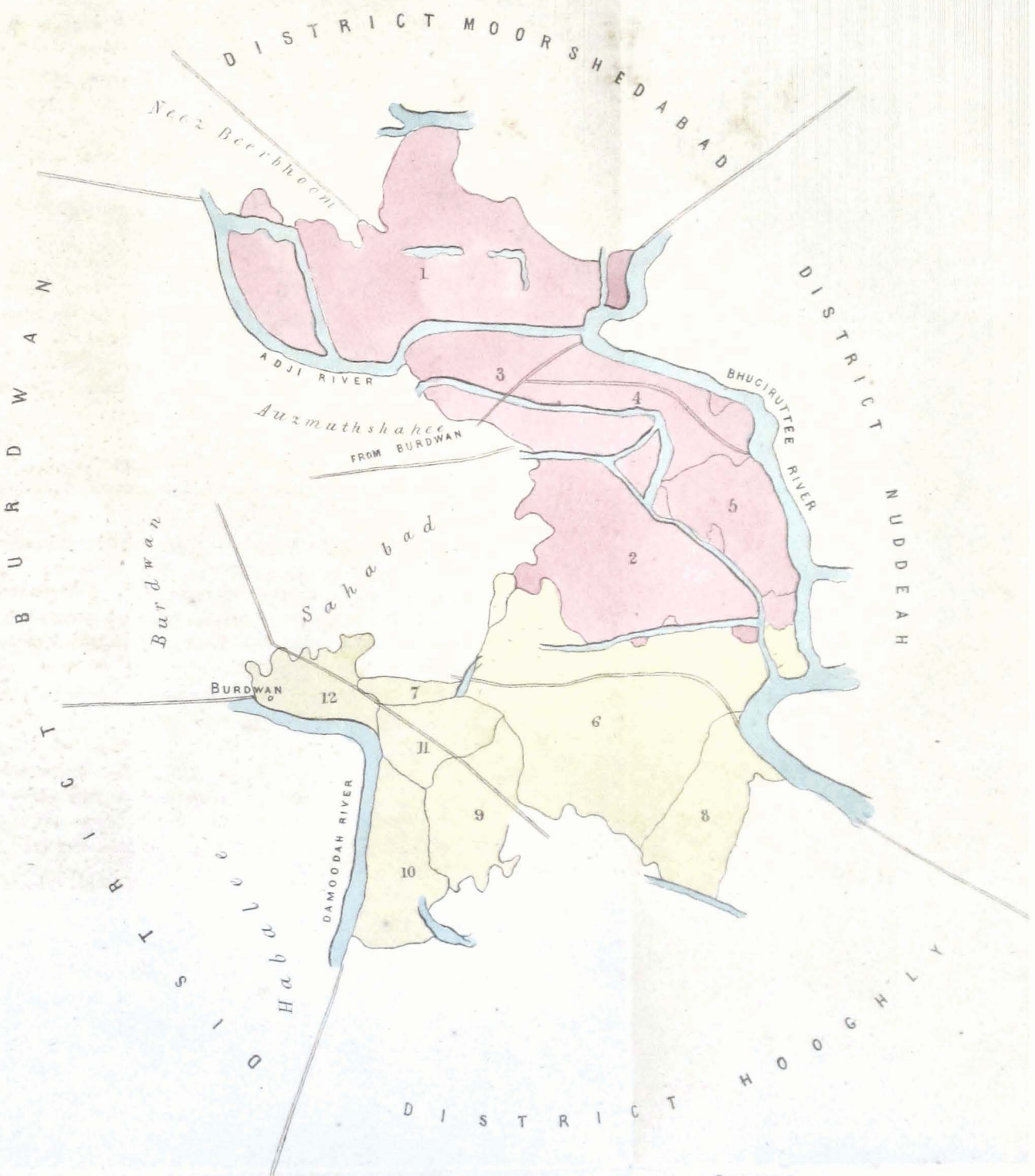
7. The boundary disputes amounting to 360 on the files of the Deputy Collectors have all been disposed of, with 5 exceptions ; and the duplicate Maps for the Board's Office have been prepared to the extent of 504 out of 1,306, the remainder 802 will be completed during the ensuing season. The column containing the Miscellaneous Cases will also show that there are very few arrears in the Deputy Collectors' Offices. None of the Ameens returned from the field till the end of August, which will account for these Maps being somewhat in arrear. In excess, however, of the duplicate Maps of Burdwan District, 1,572 copies of Takbusts have been made of the Bancoorah District in preparation for Captain Gastrell's Survey for this ensuing season, viz. 1,052 in the Office of Deputy Collector Baboo Doorgapersaud Ghose, and 520 in that of Deputy Collector Tara Chand Ghose. These Maps will all be ready and furnished to Captain Gastrell or Officer in charge of his Survey by 15th November.

8. The Establishment having been engaged on two Districts during the twelve months under review, it is difficult to proportion the expenses to each District. The total sum drawn amounts to Rupees 55,561-0-10. I have communicated with Mr. Reid on the subject and we have both agreed that of the sum expended Rupees 27,000-0-0 is chargeable to the Bancoorah District and Rupees 28,561-0-10 to the Burdwan District, which, estimating the area prepared for Survey at 1,000 square miles would give Rupees 28-8-11 per square mile and Rupees 24-9-0 per hulka. In this latter I have included the 346 hulkas which have not yet been completed as to internal demarcations, as only half finished.

9. The item of savings to Government on the sanctioned sum in the Government letter No. 319, dated 23rd June 1855, viz. Rupees 37,164-0-0 cannot be stated until twelve months have elapsed ; the results of the combined system will be better shown at the close of the ensuing season. The work that has, however, been as yet done in the Burdwan District, gives fair hopes of success as far as cost is concerned, and I have every reason to hope that the quality of it will not degenerate.

10. I conclude this brief report by bringing to the notice of the Board the indefatigable exertions of both Deputy Collectors Baboo Doorgapersaud Ghose and Baboo Tara Chand Ghose. Though not in official connection with these two Native gentlemen, I have been acquainted with them for eight years, and I have always considered them hard-working and zealous servants of the Government. During the few months that I have had charge of the Office, I have met with every desire from them so to progress the demarcations of this District that the Survey should not be impeded this next season, and at a time, when they might fairly have objected (in consequence of arrears of the Bancoorah District on hand) to their Establish-

Sketch Map of Work Prepared for Survey in District Burdwan
for Season 1855/56.



Note. The Pink portion prepared by
D^y Coll^r Tarachand Ghose
The Yellow portion D^y D^y
D^y Coll^r Doorgapersad Ghose

J. A. Smyth, Major
Supt. of Survey 2nd Division

111-B

REFERENCE

1 Monchurshahce	7 Shahabad
2 Saatsioka	8 Umbechah
3 Dheyin	9 Chootcepor
4 Indrance	10 Ilavelle
5 Jehangeerabad	11 Nibichee
6 Rancehake	12 Burdwan

ment of Ameens being increased, so late in the season as it was (June), they yielded at once to my wishes on the subject and undertook each to superintend 25 more Ameens in excess of their regular Establishments. The results of their work is shown in a joint out-turn of 1,336 hulkas for Survey, thus ensuring certain progress to the professional operations. Between two such individuals, it is difficult to select. I am not aware whether I am called on with reference to the 2nd para. of the Board's letter No. 4, dated 24th March 1854, to recommend for promotion, or whether it remains for Mr. Reid to do so; but I trust I shall not be considered presuming in naming the senior to the Board's consideration for promotion to the next grade, Deputy Collector Baboo Doorgapersaud Ghose. I would willingly include Deputy Collector Baboo Tara Chand Ghose, but the above para. referred to, confines me to one nomination.

I have, &c.,

(Signed) R. SMYTH, *Major,*
Superintendent of Survey, 2nd Division.

FROM

THE OFFICIATING COLLECTOR OF BURDWAN,

TO

THE SECRETARY TO THE BOARD OF REVENUE,

*Fort William.**Dated Burdwan, the 20th December 1855.*

SURVEY DEPARTMENT.

SIR,

WITH advertence to your letter No. 308, dated the 9th October last, I have now the honor to submit Statements Nos. I., II., and III. for that portion of the Survey work of the 2nd or Southern Division, which has continued under my control during the Survey year 1854-55, ending the 30th September last. In order to keep the Burdwan work wholly distinct, I have deemed it best, after having duly communicated with Major Smyth on the subject, to confine the Statements under submission to the progress made in the other Districts of the Superintendency, that is to say, to the Districts of Bancoorah and Nuddea. On the other hand, the work performed by the Deputy Collectors and myself in the District of Burdwan prior to the charge of the Superintendency having been made over to Major Smyth on the 8th May last, will be found duly included in the Statements Nos. I. and II. for that District, which have, I believe, already been submitted by the above Officer. The prescribed separate Statement showing the gross sum which has been expended on account of the demarcation work of the Division has also been prepared and submitted by Major Smyth, with whom I have agreed as to what portion of the amount is chargeable to the Burdwan operations, and what portion to those of the other Districts of the Division.

2. During the year under review, the demarcations in Bancoorah were brought to a close, the total number of hulkas demarcated within the period in question being 864, comprising 1,803 villages, and covering an estimated area of 900 square miles. Part of this newly-demarcated tract was at once made over for Survey to Captain Gastrell, the Revenue Surveyor of the 4th or Western Division; the area which awaited Survey by him in Moorshedabad having turned out to be less in extent and less difficult in character than had been anticipated, while that portion of Bancoorah, which was in the first instance made over to him, also proved to be of lesser extent than a rough calculation of the old Maps of the District had led me to expect. The Survey of somewhat more than one-half of the Bancoorah District has already been completed, and the portion which still awaits Survey, and which may be estimated at about 700 square miles, will give occupation to the 4th Division Survey parties during the first-half of the current Field season.

3. The difficulties which the Deputy Collectors had to contend with in finishing the demarcation of Bancoorah, owing to the vast extent of jungle, the great number and intricacy of the boundary disputes, and the demand made upon them by the Revenue Surveyor for the erection, in the hard and jungly soil of the District, of boundary marks of a more solid and permanent nature than had heretofore been considered necessary, were patiently and successfully grappled with by the above able Officers and their subordinate Peshcars and Ameens, although their having to surmount them, of course, somewhat interfered with the rate of progress.

4. In effecting the season's work in Bancoorah the aid of 2 of the additional Peshcars and 20 of the additional Ameens whose entertainment was authorized in the Board's letter dated the 20th December 1854, was made use of for a short time preparatory to their being employed on the Burdwan demarcations. The other moiety of the extra Establishment was at once sent to commence operations in Burdwan, whither they were followed by their colleagues, and by the Peshcars and Ameens of the old Staff, from time to time, as their several services could be dispensed with from the Bancoorah work. It was very late in the field season before the whole of the demarcation parties were fairly out of Bancoorah, but as the several periods

during which the different Peshcars and Ameens were employed on the demarcation work will be found duly specified in Major Smyth's Report, it seems unnecessary to advert further to the subject at present. The financial results of the Bancoorah demarcation work will be briefly alluded to in a subsequent para. (see para. 6.)

5. It only remains to be stated in regard to the demarcation work that the District of Burdwan was commenced upon in the month of January under my immediate supervision, and in accordance with the new and more difficult system which had been propounded by Major Smyth, and which had been authorised by Government to be introduced, experimentally, in the Burdwan District. Of the eventual success, or otherwise, of the new system, it is at present premature to form any decided opinion. No opinion ought to be arrived at until the present season's Survey operations shall have been brought to a conclusion; my personal experience, however, of the working of the new system of demarcation has clearly shown me two things, *viz.* that the progress of the Ameens will be much slower than under the formerly existing system, while the progress of the Survey parties will, on the other hand, be greatly accelerated. The result will, I think, be that the Staff of Deputy Collectors, Peshcars, and Ameens will have to be considerably augmented, so as to enable them to keep pace with the professional branch, who having a much less intricate Survey to complete of each village circuit than was formerly required of them, will of course have to be provided by the demarcation parties with a larger number of village circuits than heretofore, and not only with a larger number of village circuits, but with a larger number, the demarcation of each one of which will have occupied more of the time and labor of the Ameen than a village circuit completed under the old system would have cost him. The Burdwan demarcations remained under my immediate control from the beginning of January until the 8th May; and during a part of that period, *viz.* from the beginning of February to the 23rd of April, I was engaged in the interior of the District personally supervising them. On the last-mentioned date (23rd April), I returned to Burdwan, and on the 1st May, assumed charge of the Collectorship, making over charge of the Superintendency, 2nd Division, to Major Smyth on the 8th idem, since which date the demarcation Establishments have continued under his sole control.

6. To return to the cost of the demarcation work in Bancoorah during the year 1854-55, I have estimated it, in communication with Major Smyth, at Rupees 27,000. This calculating the demarcated area at 900 square miles, and the number of villages and hulkas at 1,800 and 864 respectively, gives a square mileage rate of Rupees 30, and a village and hulka rate of Rupees 15 and Rupees 31-4 respectively. In making this estimate no portion of the salary received by me during the last five months of the year, that is to say, since I gave over charge of the Superintendency and assumed that of the Collectorship of Burdwan, has been taken into the account. The cost of the Bancoorah demarcations in 1853-54 was Rupees 58-10-6 per square mile, and the circumstance of those of the present year having been effected at a much lower square mileage rate may be considered satisfactory, for although internal demarcation work was not found necessary to be resorted to very extensively, yet the large number and intricate nature of the boundary disputes, especially of those on the file of Deputy Collector Baboo Doorgapersaud Ghose, rendered the season's work on the whole quite as difficult to be dealt with, as it was during the preceding year. The average size of the villages demarcated has been, as was the case also last year, very small, and the plan has been adopted, at the suggestion of the Revenue Surveyor, of including three or four villages in one and the same hulka, wherever such a course was found to be practicable, the boundaries of each of the component villages being, of course, always shown in the hulka Maps, wherever such sub-division was considered necessary. No inconvenience has resulted from the adoption of this measure, although the nominal cost of demarcation *per hulka* is much higher.

7. The number of Bancoorah boundary disputes decided by the Deputy Collectors is very creditable to those Officers. No less than 1,018 cases were disposed of, and only two remained for decision at the close of the year. The number of appeals preferred against the

Deputy Collector's decisions have not been so numerous as might have been expected. Out of the appeals disposed of by me during the year, I found it necessary to interfere with the decisions of the Deputy Collectors in 12 cases only out of 226, being at the rate of about 5 per cent. The balance of appeal cases outstanding at the close of the year was somewhat heavy. This was owing to the whole of the pending cases having been instituted during the last quarter of the year, and to the pressure of work on the hands of the Deputy Collectors having prevented those Officers from writing up their final decisions as speedily as could have been wished. This of course prevented my trying the appeals. The majority of the cases (88 out of 121) have however since been disposed of, and the residue will shortly be cleared off. The other cases shown in Statement No. 1, which have had to be dealt with by the Deputy Collectors and myself do not call for any further notice in this Report.

8. The Registers, Mehalwaree and Mowzawaree, in English and Bengalee, of 6 Pergunnahs of the Nuddea District, comprising 799 villages, have been completed by me within the year. Seven pergunnahs of the above Districts still remain for registry, but the Survey of these has only lately been completed, and their village Plan books reached me at so very recent a date, that I have as yet been unable to complete the Registers of any of them. The work is now, however, in hand, and on its completion the Bancoorah Registers will be commenced on. No satisfactory progress can at present be made in advancing the latter, as the village Plan books of the first season's work are still in the hands of the Surveyor, and, I believe, it will be necessary for them to remain with him until the whole of the District has been surveyed, in consequence of the lands of the several pergunnahs comprised in the District being very much scattered, instead of each pergunnah being compact in itself.

9. In conclusion, it remains my pleasing duty to bring to the notice of the Board the exemplary and highly efficient manner in which the Deputy Collectors of the 2nd or Southern Division (Baboo Doorgapersaud Ghose and Tara Chand Ghose) have continued to conduct the arduous duties entrusted to them; and I have much pleasure in renewing the application made by me in their favor in the 50th para. of my Report dated the 14th December 1854. I considered both Officers of equal merit, but if constrained to confine my recommendation for promotion to one of the two, I would beg to recommend Baboo Doorgapersaud Ghose, as the senior, to the favorable notice of the Board and Government.

I have, &c.,

(Signed) H. M. REID,
Officiating Collector.

No. —.

FROM

H. MUSPRATT, Esquire,

SUPERINTENDENT OF SURVEY, 3RD DIVISION,

To

THE SECRETARY TO THE BOARD OF REVENUE,

LOWER PROVINCES,

Fort William,

Dated Dacca, the 30th October 1855.

SIR,

I HAVE the honor to submit, for the information of the Board of Revenue, the Annual Statement of the nature and extent of work effected by the Officers employed in the 3rd Division of Survey during the year 1854-55, ending the 30th September last.

The following Memorandum shows the work done by each Officer :—

Names and designation of Officers.	Village demarcated in advance of Survey.	Boundary dispute cases.	Enquiries regarding excess and missing lands.	Other miscellaneous cases.	Appeals.	Duplicate copies of Maps.
Mr. C. H. Campbell, Superintendent, from 1st October 1854 to 6th June 1855,	0	344	0	362	112	0
Mr. H. Muspratt, Assistant ditto, from 22nd February to 6th June 1855, and Superintendent from 7th June to 30th September 1855,	54	29	0	8	296	1542
Mr. W. R. Pogson, Deputy Collector, from 1st December 1854 to 15th June 1855,	0	211	0	1	0	0
Moulvee Salamutoollah, Deputy Collector, from 1st October 1854 to 2nd July 1855,	0	201	0	95	0	0
Baboo Joy Chunder Mujoomdar, Deputy Collector,	602	693	0	313	0	0
Baboo Brijoo Soonder Mitter, Deputy Collector,	732	786	0	476	0	0

2. Mr. Campbell was Superintendent till 6th June. Since that date I have had charge of the Office.

3. Mr. Pogson, Uncovenanted Deputy Collector, during the time he was attached to the Survey, was employed solely in deciding boundary dispute cases remaining from last year. Moulvee Salamutoollah also was employed in the same duties until he was transferred to Behar.

4. The new demarcations were commenced by Baboo Brijoo Soonder by the end of January and by Baboo Joy Chunder in the middle of February, as previous to that time all the Officers were employed in disposing of the outstanding boundary disputes. These cases, with the exception of 22 left undecided by Moulvee Salamutoollah, have all been disposed of. No less than 1,730 boundary dispute cases were instituted during the year. Of these 515 remain. It was impossible to clear these off, as 317 of them were instituted after Baboo Brijoo Soonder had left for head-quarters, and the rest of the cases were of disputed boundaries running through bheels. Baboo Joy Chunder is deserving of great praise, he having decided all his cases with the exception of 15.

5. The number of villages demarcated this year was 1,388 only, on account of the delay in commencing the new work. The villages comprised 1,155 hulkas which contain 18,717 chucks and cover an estimated area of 1,100 square miles. This will, I trust, be considered a good season's work as the lands to the East and South of Zillah Mymensing are low lands and the work was much retarded in March and April by heavy rain. During the season 177 villages,

containing an area of 90 square miles, of Baboo Joychunder's chuck, were made over to the Revenue Surveyor as he required them to make his tract of country compact.

6. The internal plotting, which has had to be resorted to during the season, was excessive, one village containing 1,600 plots, divided amongst 195 mehals. In Tuppeh Hazraddi the settlements were made with the Talookdars, consequently the estates are small; and the land being much intermixed, there were a number of boundary dispute cases in nearly every village.

7. Of villages, the boundaries of which have been laid down, but which require internal plotting next season, 233 remain. Six or 8 of these will require the simple Khusreh or field by field measurement.

8. During the year the Establishment of Ameens and Peshcars was increased to the maximum provided for in the Government grants, 4 Peshcars and 40 Ameens were thus added to the strength of the field parties. By their assistance the area was much increased without adding much to the expense of the Office, and consequently the cost per square mile was lessened considerably. As Mr. Pogson and Moulvee Salamutoollah were engaged solely in deciding outstanding disputes of the previous year, the salary drawn by them should not be calculated in estimating the cost of the year's work. The amount expended in this Division during the year was Rupees 63,731-4-7; deducting the salary, &c. of the above two Officers, leaves Rupees 53,281-8-0, which on the estimated area of 1,100 square miles, makes the cost per square mile Rupees 48-7, or per hulka Rupees 46-2. The real cost must be less than this for the amount of work left unfinished is not near so great as it was at the end of the season 1853-54.

9. The number of appeals pending at the close of the year is heavy, there being 337 left undecided, and 26 more cases have since been appealed. It seems to be the rule of the Mymensing land-holders to claim as part and parcel of their villages, the whole of any waste or bheel land which lies on the border of their villages, and consequently the other villages bordering on that village immediately institute a case claiming the same. These cases are often intricate and difficult to decide, not from the abundance of proofs, but from absence of any good proof on either side. Of the appeals, in 317 cases the orders were upheld, and in 65 the orders were reversed, modified, or the cases restored to the file. This number (65) appears large, but many of the cases were owing to the notice not being served on the parties prior to the Deputy Collector's going to the spot, or Ameens investigating cases above 10 beegahs.

10. No whole Registers of any of the Mymensing pergunnahs have as yet been finally disposed of. Discrepancies are found between the statements of the land-holders and the Government records. Formerly no mehal-melané was prepared, and it is extremely difficult to get the people to come to so great a distance as Dacca. I trust, by taking the papers of four or five pergunnahs to Mymensing with me, to secure the attendance of all the parties there, and so be enabled to complete those pergunnahs during the ensuing year in Bengalee, and, if possible, in English also.

11. For the current field season I have made the following arrangements:—Two Deputy Collectors will proceed with 60 Ameens to pergunnah Shooshung, and prepare, with all dispatch, that part of the pergunnah situated to the East of the River Sumsaree, comprising an area of about 300 square miles. This tract will be made over to the Revenue Surveyor by the end of January. Afterward, the remainder of pergunnah Shooshung and pergunnah Sherepore will be taken up. I hope that during this season Zillah Mymensing will be nearly completed. One Deputy Collector will be employed in finishing the work remaining from last season, but I cannot complete my arrangements until a third Deputy Collector has been appointed in the place of Moulvee Salamutoollah. Without his assistance, it will be impossible to prepare a sufficient area for the Revenue Surveyor next season.

12. Moulvee Salamutoollah was transferred from this Department in July. He was physically wanting in the activity required in a Survey Officer, and did not devote his attention to his work so much as he might have done. Mr. Pogson was only attached to the Department temporarily. He appears to be a good Officer, but some of his cases were decided too hastily. Baboo Joy Chunder was placed on the classified list of Deputy Collectors last

January, and his salary was increased Rupees 50 per mensem in August. He has now been attached to the Survey Department five years and has always been favorably reported on as a very hard-working and zealous Officer. I trust his services in this Department and previous service of seventeen years in Government employ, will secure him further promotion shortly. Baboo Brijo Soonder joined the Department on the 1st of November 1854. He received in June an increase to his salary of Rupees 100 per mensem, so that he now draws the full salary of the 5th Class in which his name was entered in 1853. The delay in his obtaining the full salary of the 5th Class before was owing to there being no fund available. He has conducted his work to my entire satisfaction, having been employed in demarcating estates which were very much interlaced. He is a very valuable Officer, being active and diligent in the performance of his duties. Both he and Joy Chunder deserve great praise, and I would recommend their promotion to the 4th Class should vacancies occur.

I have, &c.,

(Signed) HENRY MUSPRATT,
Superintendent of Survey, 3rd Division.

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No. 314.

FROM

THE SUPERINTENDENT OF SURVEY,
4TH DIVISION,

TO

THE SECRETARY TO THE BOARD OF REVENUE,
LOWER PROVINCES,
Fort William.

Dated Berhampore, the 20th November 1855.

SIR,

I HAVE the honor to submit the General Survey Returns of this Superintendency for the year 1854-55, ending 30th September last, and with reference thereto to remark, as briefly as possible, on the progress which has been effected and the present state of the work in the Division.

2. The annexed Memorandum exhibits the nature and extent of the work effected by the several Officers attached to this Division during the period under review :—

Names and designation of Officers.	Villages demarcated and rendered ready for Survey.	Boundary disputes decided.	Cases regarding excess and missing lands.	Miscellaneous cases.	Appeals.	Registers, Mehalwar and Mouzahwar, disposed of.	Duplicate copies of Maps prepared.
Mr. J. Watson, Superintendent,	0	3	62	880	52	10	2
Baboo Tarucknath Ghose, Deputy Collector,	401	149	69	682	0	9	701
Moulvee Ahsan Ahmed Khan, Deputy Collector,	683	88	35	664	0	4	1092

3. The Board of Revenue having determined that Captain Gastrell, the Revenue Surveyor, should, on the completion of the Moorshedabad District, enter on the Survey of Bancoorah, and the following year cross over into Jessore, it was deemed inadvisable to commence the demarcation of Jessore at the very commencement of the field season.

4. The Field Establishment of this Division was therefore reduced by the transfer of 2 Peshcars and 20 Ameen's to the 1st Division, to aid in the demarcation work of Bogra and Rungpore under Mr. Superintendent Birch.

5. The reduced Establishment under the Deputy Collectors and myself confined our labors entirely to the Register work of Moorshedabad until the month of January when, with the Board's approval* Deputy Collector Moulvee Ahsan Ahmed with 3 Peshcars and 20 Ameen's proceeded to Jessore, and commenced operations in the northern part of the District, situated between the Koomar and Nabongunga Rivers.

6. Captain Gastrell having announced his intention to depute a party to commence with the Survey of Jessore at the opening of the season 1855-56, the Board of Revenue directed that every exertion should be made to provide that Officer with a sufficient field; and in anticipation of the Government Order, the Superintendent was authorized to raise the Establishment to the strength of 8 Peshcars and 80 Ameen's, and to depute Baboo Tarucknath Ghose to Jessore.

7. Baboo Tarucknath Ghose joined Deputy Collector Moulvee Ahsan Ahmed in Jessore about the end of March, and under the management of these two Deputy Collectors, field operations were carried on until the latter part of July.

8. The tract of country which has been demarcated and rendered in every respect ready for Survey in Jessore, consists of 965 hulkas, covering an estimated area of 670 square miles. As 750 square miles await Survey in Bancoorah, the professional Department has ample work for the coming field season.

9. The internal plotting which had to be carried out in Jessore, though very considerable, is not so excessive as that experienced in Moorshedabad. The 965 hulkas demarcated comprise 1,084 villages. Of these, 848 hulkas, containing 967 villages, were measured Mehalwaree by scale and compass; the number of chucks thus measured was 27,293. Two hulkas were subjected to a field by field measurement, and the number of fields measured amounted to 1,703, comprising an area of 1,595 beegahs. The remaining 115 hulkas were simply demarcated externally.

10. In conformity with the Board's instructions communicated to me in their letter No. 269, dated 14th September, copies were prepared of all the Jessore village Maps, and these were made over to the Revenue Surveyor for the use of his Office during the month of September.

11. With the exception of 8 hulkas, all the copies for the use of the Board of Revenue have been prepared, and will eventually be transmitted to that Office. The original Maps, when no longer required, in the Superintendent's Office, will be forwarded to the Collector.

12. During the year 241 boundary dispute cases were on the file, 240 have been decided, 1 case only was pending at the close of the year.

13. The number of appeals preferred to me from the decision of the Deputy Collectors was 63. In 40 cases (of the 52 decided by me up to the close of the year) the orders of the Lower Court were confirmed, 3 were reversed, 2 were modified, and 7 were returned for revision.

14. From my decisions there have been 7 appeals to the Commissioner, in 6 my orders were upheld, in 1 reversed.

15. The expense incurred during the year for carrying on the business of this Office has been Rupees 44,022-8-5, or Rupees 12,515-11-11 less than that of last year.

16. The Mehalwaree and Mouzawaree Registers in English and Bengalee, of 4 pergunnahs of District Beerbhoom, 2 of the Bhaugulpore District, and 19 of Moorshedabad have been completed during the period under review, as per following details:—

	<i>Perghs. Villages.</i>	
By the Superintendent,.....	11	3,273
„ Baboo Tarucknath Ghose,	10	267
„ Moulvee Ahsan Ahmed Khan,	4	54

17. The Registers of the Beerbhoom District have been finally disposed of, and have been forwarded to the Collector, to whom also the whole of the remaining Survey records of the District have been consigned. The Registers of the Bhaugulpore District (with the exception of one pergunnah) have also been finally disposed of, and together with all the Survey records been forwarded to the Collector. The Registers of the one remaining pergunnah have subsequently been sent. Of the 19 completed Registers of the Moorshedabad District, 18 have been sent to the Collector's Office. Besides these 19, 12 other Registers of Moorshedabad, comprising 610 villages, have been prepared in Bengalee, and only require to be translated into English.

18. During the current field season, the demarcation of Zillah Jessore will continue to occupy the attention of this Division. As heretofore, the field parties will continue under the management of the Deputy Collectors. I shall myself visit Jessore, and taking up a central position, superintend the work, and regulate the operations of the Deputy Collectors and their subordinates.

19. The field Establishment this season numbers 10 Peshcars and 100 Ameens, the force of the Division having been strengthened by the Bengal Government to meet the requirements of the Professional Department, which has lately been raised to the maximum originally provided for in the Government Grants.

Vide letter No. 595, dated 5th October 1855, from the Government of Bengal to the Board of Revenue.

20. The Deputy Collectors Baboo Tarucknath Ghose and Moulvee Ahsan Ahmed have both worked well and diligently. The former Officer had charge of the Superintendency for 13 days in December and 20 days in March; his extensive knowledge of the English language enabled him to carry on the correspondence of the Office during those periods with efficiency, and this knowledge has been of great service in preparing the English Registers. In furtherance of the instructions communicated to the late Controller by the Board in their letter No. 4, dated 24th March 1854, I beg to submit the name of this Officer for promotion from the 3rd to the 2nd Class of the Deputy Collectors. The ability, zeal, and perseverance he has ever displayed since he joined the Survey in 1851, (qualities which I find have been prominently noticed not only by every successive Superintendent but by the late Controller of Surveys) fully warrant my making this recommendation, which I hope will meet that favorable consideration promised by the Board in their letter to Government No. 289, dated 13th September 1854, paragraph 6.

21. Moulvee Ahsan Ahmed is also an able and efficient Officer, and by his conduct during the year has fully maintained the good opinion recorded of him by my predecessors. For upwards of two years he officiated as a Deputy Collector on a salary of Rupees 250 per month. On the 1st of June last, he was appointed a Deputy Collector of the 6th Class. The Moulvee as I mentioned in my last Quarterly Report, is sincerely grateful for the appointment; but as the salary of a 6th Class Deputy Collector is 50 Rupees per month less than that he has enjoyed for two years and more, I would respectfully submit to the Board that he be promoted to the 5th Class.

I have, &c.,

(Signed) J. WATSON,

Superintendent of Survey, 4th Division.

(True Copies)

(Signed) E. T. TREVOR,

Officiating Secretary.