

REPORTS
ON
SURVEY AND SETTLEMENT OPERATIONS
IN BENGAL

FOR THE YEAR ENDING

30TH SEPTEMBER, 1919.



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CALCUTTA :
BENGAL SECRETARIAT BOOK DEPOT.
1920.

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23/19

ANNUAL REPORT

ON THE

SURVEY OPERATIONS IN BENGAL

(OTHER THAN CADASTRAL SURVEYS)

DURING THE YEAR

1918-19.

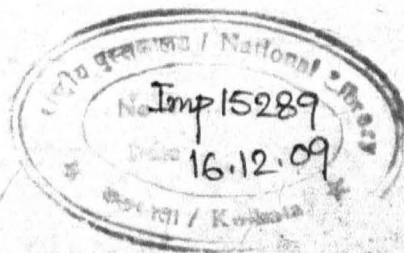


CALCUTTA :

BENGAL SECRETARIAT BOOK DEPOT.

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FROM MAJOR F. C. HIRST, I.A.,
Director of Surveys, Bengal,

TO THE SECRETARY TO THE GOVERNMENT OF BENGAL,
REVENUE DEPARTMENT.

Dated Calcutta, the 22nd December 1919.

SIR,

I HAVE the honour to submit herewith my report for the Survey year ending the 30th September 1919. Mr. C. A. O'Donel acted for me during my absence as a volunteer on military duty until I returned on the 31st March 1919.

2. The main traverse programme was —

	Square miles.	Cost rate per square mile.
		Rs.
<i>Uplands.</i>		
Jessore	649	70
Bankura	777	67
Nadia	914	47
<i>River areas.</i>		
Bhagirathi	271	47
Diara in Nadia and adjoining districts ... }		
Total	2,611	

A normal programme should be about 3,600 to 4,000 square miles of traverse. The deficit, of course, is due to curtailed programmes because of the war. For this reason mainly cost rates are high.

3. Paragraph 213 on page 53 of the Survey and Settlement Manual of 1917 lays down that village trijunctions will be demarcated ahead of traverse operations by District Magistrates. Unless this rule is acted upon the traverse operations are seriously delayed and complications and cost rates raised; unnecessary cost also occurs during the cadastral stage. District Officers have been specially urged to carry out the preliminary demarcation in the coming season's work, but during the year reported upon, except perhaps in the uplands area traversed in Nadia, the operations were greatly hampered by defective demarcation. A second point upon which District Officers could help my Department is in the early issue of demarcation notices under the Survey Act. In the year under report these were not always issued as quickly as they might have been.

4. The question of some form of recess out of the plains for the few European Officers there are in the Department is one which I am about to raise. During the year the health of the five Officers in the Department with one exception has been bad. Mr. O'Donel was compelled to take a short sea trip; Messrs. Judd and Newton were both compelled to take leave, and Mr. Delaney has been in indifferent health all along. I found it necessary to remain on tour practically through the hot weather and rains, although entitled to visit the hills.

The fact is that although a report of this nature does not show it, the uses to which the Department is put by the public and the administration generally, in miscellaneous matters, has increased greatly in the last few years ; and unless a good climate can be ensured for a part of the year, there must always be danger of collapse, which there is little margin to meet.

I cannot speak too highly of the way in which my officers have stuck to their work, and am sure that Government will consider the question of relaxation or relief favourably.

5. During the rains I inspected the five survey schools in the Province, and my report upon them is in the Press. There is still a good deal of spade work to be done before it can be said that land surveying education in Bengal is properly on its feet. But it is satisfactory to note that progress is being made, and that the market for properly qualified surveyors is expanding. The inspection of these schools is a matter which should be looked upon as one of the more important minor duties of the Director of Surveys.

6. During the year I was asked to advise upon the methods to be used in the Mesopotamian revenue surveys. Such advice as I was capable of giving has been given, and various books and pamphlets have been supplied to help the Mesopotamian authorities. The Revenue Secretary of that Province has been kind enough to acknowledge the help given.

7. Proposals for revising the pay of the whole Department have been sent to Government towards the end of the year. These are under consideration.

8. A re-settlement of the Kalimpong Government Estate being due, Mr. Ascoli, I.C.S., and I visited Kalimpong in June, and decided that it should be possible to revise the maps of the last settlement and so save the expense of a new traverse and cadastral survey. It has been decided to adopt revision.

The whole case of the Darjeeling district maps has been considered during the year ; from the peculiar physical nature of this district patch work surveys in the past have been all that could be afforded in the Darjeeling and Kalimpong Sub-Divisions. The Deputy Commissioner has asked for a cadastral survey of the whole district, and I have compiled a history of all the professional surveys of the district since its formation. The question of how far a cadastral survey can be dispensed with is at present under consideration by the Director of Land Records, the Deputy Commissioner and me. It is quite clear that the existing maps are unsatisfactory from the point of view of district administration.

9. I visited all major settlements at least once during the year, examining the field cadastral work in Nadia and Bankura ; the former in the diara area, and the latter between Asansole and Raniganj. The work was good. The Bankura area was particularly difficult.

10. During my absence I consider that too little touring has been done by at least one Officer of the Department. I have taken steps to remedy this defect.

Bengal Traverse Party.

Imperial Operations.

11. Mr. O. E. C. Judd held charge until 31st March 1919, when Mr. C. A. O'Donel relieved him.

12. **District Bankura.**—In this district the following areas were traversed :—

	Square miles.
(i) Thana Gangajalghati (portion only)	293
(ii) „ Bankura (portion only)	156
(iii) „ Onda	328
Total	777

This area is undulating and is covered in many places with extensive patches of low jungle. The cultivated areas, with their very irregular terraced fields, will be difficult for cadastral survey. A few sub-traverses remain to be run early next season. These are due to initial defective demarcation.

13. **District Nadia.**—The following areas were traversed :—

UPLANDS.				Square miles.
(i)	Thana Tehatta	...	...	186
(ii)	„ Meherpur	...	...	132
(iii)	„ Chapra	...	...	128
(iv)	„ Damurhuda	...	...	118
(v)	„ Krishnaganj	...	...	161
(vi)	„ Chuadanga	...	...	112
(vii)	„ Jibannagar	...	...	77
Total				914

BHAGIRATHI RIVER.

Diara Areas.

(viii)	Riverain areas of Nadia district including portions of the Hooghly, Burdwan and Murshidabad districts	...	...	271
Grand Total				1,185

The diara areas include portions of other districts which cannot be separated in area until after the cadastral survey is completed by the Director of Land Records.

14. **District Jessore.**—The following areas were traversed :—

				Square miles.
(i)	Thana Maheshpur	...	...	197
(ii)	„ Bongaon	...	...	227
(iii)	„ Gaihatta	...	...	95
(iv)	„ Sarsa	...	...	130
Total				649

The cadastral programme for next season will be 147 square miles (thana Kaliganj) in excess of this area, as that area was previously traversed but omitted from cadastral survey operations of the current year.

I fear that the Settlement Officer will need a great deal of help in extra traverses next field season as many village boundaries as traversed diverge seriously from the original revenue survey boundaries. The disagreement is due to lack of initial demarcation of village trijunctions, and the water-logged nature of this area.

4" Plots for Jurisdiction Maps.

15. (a) *Districts Noakhali and Tippera.*—These including the Chakla Roshnabad Estate by the old survey have been completed.

(b) *Rajshahi District (Diara).*—This area has been completed except for a few sheets of adjacent district diaras included in the Rajshahi main block of riverain lands.

(c) *Districts Jessore and Nadia.*—This work is rather behind hand, but steps have been taken to bring it up to date without undue delay.

(d) *Districts Bankura and Burdwan.*—The plots of five thanas have been sent to the Settlement Officer, and the remaining thanas of the first two survey blocks are in hand.

4" Plotting for Comparative Maps in Diara Areas.

16. (i) *Jessore District*.—Plots on 23 sheets of the Madhumati river have been sent to the Settlement Officer, who will transfer his cadastral boundaries to them.

(ii) *Nadia and adjoining Districts*.—The plots have been sent to the Settlement Officer, and six sheets have been received back with cadastral boundaries shown on them.

(iii) *Rajshahi and adjoining Districts*.—These have been completed and sent to the Settlement Officer for the second phase of the work. He has returned four sheets of an area adjoining the Sonthal Parganas for further details, which are being compiled, but which present peculiar difficulties which will probably necessitate asking the Settlement Officer to visit Calcutta.

(iv) *Mymensingh District*.—Comparative maps on 12 sheets of the Dhanu river area in thanas Kendua, Netrakona, Kishoreganj and Bajitpur have been sent to the Settlement Officer at his request.

Miscellaneous Survey Work.

17. **Howrah Municipality**.—The remaining 216 sheets of circles 12 to 24 with area statements and municipal registers were sent to the Municipal Office for public inspection under section 20 of Act I of 1887. These have since been returned with 352 objections raised by the parties concerned. These are gradually being disposed of.

Of the total 341 fifty-foot sheets covering the Municipality 236 have been sent for final printing; 108 sheets have been printed and returned to this office and six colour copies of each of 102 sheets have been prepared.

The total expenditure incurred to the end of September 1919 is Rs. 2,03,520.

18. **Revision of the Calcutta Added area**.—No further work was done in this area during the year. The question of a resurvey and maintenance is still under consideration.

19. **Other miscellaneous work**:—(a) *Demarcation of a portion of the boundary of the Chittagong Hill Tracts*.—The demarcation along $3\frac{1}{2}$ miles of the boundary adjoining the Lushai Hills District was completed. It was found impossible to carry out the demarcation of the boundary adjoining the Hill Tippera State, as no arrangements could be made for the carriage of food supplies to the area.

(b) *Traverse of Kalimpong and Bong Blocks*.—An area of 7.53 square miles was traversed, but the plots of an area of only 75 acres covering the Kalimpong bazar are required as the remaining area has now been included in the Revision Survey and Re-Settlement of the remainder of the Kalimpong Government Estate. The bazar area will be surveyed on the 64" scale by this Department early in season 1919-20.

(c) *Nepal-Darjeeling boundary*.—The checking of the positions of some additional pillars erected by the Deputy Commissioner between pillars 21 to 26 of the boundary was taken in hand. The work could not be completed as certain discrepancies were detected between the traverse records of 1914-15 and those of 1918-19 and the old maps. These discrepancies will be adjusted early in November next.

(d) *Preparation of 4" comparative maps of the boundary between Jalpaiguri District and Cooch Behar State*.—The comparative maps were completed, and the final adjustment of the boundary will be carried out next season by a Boundary Commission.

(e) *4" comparative maps of the boundary between Cooch Behar and Goalpara Districts*.—The comparative maps were completed, and the final adjustment of the boundary will be done by a Boundary Commission during 1919-20.

(f) *Bhutan-Jalpaiguri boundary between pillars Nos. 114 and 116*.—A new alignment of the boundary between these pillars has been proposed, and I visited the area in May 1919 with the Bhutan Boundary Commissioner to arrange preliminary matters.

(g) *Relaying of the boundary between Mauza Gobindpur and adjoining Mauzas in District Dinajpur.*—Comparative maps were completed in 1917-18. A report has been sent to the Civil Court concerned, and if more work is needed it will be done next year.

(h) *Relaying of the boundary between the Chanchal and Churaman Wards' Estate, District Malda.*—The traverse and comparative mapping have been completed, and the boundaries will be demarcated on receipt of information from the Collector, to whom the maps are being sent.

(i) *Relaying of the boundary between Mauzas Radha Ballavpur and Dabra in Thana Asansol, District Burdwan.*—Comparative maps were prepared and copies sent to the Sub-Judge of Burdwan in 1917-18. No demarcation or relaying of this boundary has yet been called for.

(j) *Relaying Tauzi No. 33 in Mauzas Alipur and Radhanagar.*—A comparative map was prepared and a copy sent to the Collector of 24-Parganas for a local investigation.

(k) *Preparation of 4" comparative maps of certain Mauzas in Thanas Mehendiganj and Bhola for the Collector of Bakarganj.*—The comparative maps for 18 Mauzas falling in Thanas Mehendiganj and Bhola which were required by the Collector were completed and copies sent to him.

(l) *Demarcation of the Nadia rivers.*—This work was started in August and part of the demarcation along the Bhagirathi river was completed. The demarcation along this river should be completed early in December 1919. This work is in connection with recent proposals for watching the Nadia rivers and their effect upon the fresh water-supply of the Hooghly river.

(m) In addition to the above a great deal of work in the nature of giving advice to District Officers and others was done in this Party, conjointly with my own office. Much of this work is both heavy and tedious, but it is apparently of use to the administration generally and so is welcome. It is impossible in this Report to refer in detail to the many different cases dealt with.

Drawing Office, Bengal.

20. Mr. P. F. Delaney held charge throughout the year.

21. **Reproduction Section.**—The machinery of this Section is in rather a bad way owing to the war, but arrangements are being made for renovation and necessary additions of plant.

The total output is 832,126 copies of maps, of which 115,575 were printed in the Surveyor-General's office. This outturn is greatly in defect of that of the previous year, and is partly due to bad equipment, partly to smaller orders, and partly to time lost in colour printing.

Detailed figures of outturn are given in Appendix III of this Report.

22. **Record Section.**—During the year 5,870 original cadastral maps were received, bringing the total of these maps in this Section to 77,606.

23. **Drawing Section.**—This Section has been employed upon the following types of work :—

(i) *1" final police-station maps.*—In this work an experiment is being made to modify the system used and so to increase the output. The experiment is not yet complete. Progress generally has been slow and is now being expedited. Much delay occurs owing to the frequent changes in boundary that are notified after the map-production process is far advanced.

(ii) *4" jurisdiction mapping.*

(iii) *1" Chandra's mujmilis.*

(iv) *1" "not final" thana mujmilis for Settlement Officers.*

(v) *$\frac{1}{4}$ " district mapping.*

The outturns for this section are given in Appendix III of this Report.

24. **Map Issue and Copying Section.**—For the public and Government officials 950 applications for copies of maps were dealt with during the year. In addition 3,762 printed copies of maps were supplied to applicants.

This is a considerable increase over last year, but is only a portion of the work that this Section will have to do as soon as it is established at Alipore and becomes better known.

Bengal Land Surveying School.

25. The school was in charge of Mr. Rajendra Lal Banerji throughout the year.

26. The statement below shows the first and second-year students who attended the school during the year :—

	Number admitted.		Total.
	Hindus.	Muhammadans.	
First Year	21	8	29
Second Year	19	3	22

The examination results are not yet published.

Of the 22 second-year students the following were admitted under the new scheme sanctioned in Bengal Government letter No. 501, dated the 12th March 1917, from outside schools :—

Dacca	9
Rangpur	1
Pabna	0
Rampur Boalia	2

The balance were first-year students of the Comilla school. The general English education qualification of youths from outside schools was very low indeed, and this will probably result in bad results in the final examination. The question of revising the present procedure is referred to in my Special Report referred to in paragraph 5 of this Report. Here it will suffice to say that until the existing system is changed, land surveying education in Bengal will not be placed upon a satisfactory basis. That great progress has been made since the establishment of the Comilla school cannot be contradicted, but to me it is disappointing that this type of education should still be as backward as it is. That it is backward, however, is due more to misunderstanding elsewhere than to lack of effort in this Department.

Training of District and candidate Kanungos.

27. No district kanungos were sent for training during the year. Three candidate kanungos were trained, and they worked satisfactorily and all passed the tests imposed. Government issued orders in letter No. 1314-18 T. R., dated the 29th June 1916, regarding the training of kanungos. I am about to draw the attention of Government to the fact that the school can take many more of this type of student than are sent to it.

28. Plans have been made to give extra training at Comilla to the staffs of the other schools of the Province, where such training is needed.

29. The school buildings require rebuilding, and plans are under preparation for permanent buildings.

30. Health has been generally good at the school. It seems clear that the steady removal of scrub jungle has improved health greatly. Where mosquitos swarmed almost always, few are now seen except for two to three months each year.

Imperial Standard Mapping Section.

31. Mr. P. Simpson, Extra Assistant Superintendent, Survey of India, held charge of the Section throughout the year.

32. The Section has been employed during the year under report on the compilation and fair mapping of 2" and 1½" originals for reduction to the 1" scale, as well as insertion of hills and the completion to margins of such sheets incompletely published previously in these respects. Such sheets are usually completed from existing old material, especially in the case of the hills, but whenever cadastral or other data is forthcoming it is utilized.

The 2" originals are mostly compiled from the 16" Cadastral Village Surveys of Bengal and Bihar and Orissa, reduced by pentagraph to the scale of drawing; whereas for the 1½" sheets, the 4" local series of maps is

utilised, and pasted on their respective projected sheets; these are reduced by photography to the scale of drawing, and fair mapping is executed on blue prints on drawing paper supplied by the Photo-Litho office.

The Section also undertook the compilation of the Calcutta-Howrah Town Guide Map in 16 sheets, on the 24" and 16" scales, for final reduction to the 12" scale. The Howrah area was drawn *de novo* from the 50 feet Howrah survey maps, and the Calcutta portion completed from existing 16" sheets of the Bengal Survey Department; all the names were retyped, and as much information as was obtainable from outside sources was incorporated to bring these maps up to date.

The normal outturn of 1" sheets was effected through this new work.

33. **Outturn.**—Twelve standard sheets (three 2" and nine 1½"), together with the area of Bengal falling in sheet No. 75 $\frac{0}{6}$, were submitted to the Superintendent of Map Publication for publication.

The sheets relate to the districts of Mymensingh, Midnapore and Dacca.

34. The absence of many draftsmen on medical leave owing to the influenza epidemic has affected on the outturn of the Section.

Tours and services of Officers.

35. Mr. O'Donel was on tour for 24 days whilst he acted for me. Between 31st March 1919 and the close of the year I was on tour for 103 days. The touring of other Officers was not always sufficient, and steps have been taken to remedy this defect.

36. I beg to bring to the notice of Government the services of the following officers:—

Mr. C. A. O'Donel, of whose services I cannot speak too highly.

Mr. O. E. C. Judd, who has worked very industrially.

Mr. P. F. Delaney, who has carried out arduous work in the face of great difficulties and hampered by ill-health.

Mr. Rajendra Lal Banerji, who has done unusually good work in the Comilla Survey School.

The services of Mr. P. Simpson in charge of the Standard Mapping Section for Bihar and Orissa and Bengal have been brought specially to the notice of the Surveyor-General in India.

The services of my Personal Assistant Rao Sahib Damodar Rao Dhulekar are hard to recognise adequately. His exceptional abilities and capacity for work are already known to Government.

The remainder of the staff has worked well and loyally in the face of short-handedness due to the war, severe suffering from the influenza epidemic, tension caused by the high prices of food and clothing, and the extraordinary inflation in rents which Calcutta is suffering from. For the majority of the staff the year has been unusually difficult, and one can but hope that better times, which are thoroughly deserved, are in store for it.

37. Mr. O'Donel and I take this opportunity of thanking the Director of Land Records and his Officers for the courtesy they have extended to an allied Department during the year. Our relations could not be more cordial than they are.

I have the honour to be,

SIR,

Your most obedient servant,

F. C. HIRST, MAJOR, I.A.,

Director of Surveys, Bengal.

APPENDIX I--PART A.

Statement Showing particulars of each Survey Operation undertaken by Bengal Traverse Party during the year ending 30th September 1919.

DESCRIPTION OF WORK.	Geographical limit of work.	Origin used.	Number of villages.	Linear miles of chaining.	Number of new theodolite stations.	Number of azimuths observed.	Number of azimuths used.	Number of sub-traverses.	Number of village circuits.	Number of sub-circuits.	Number of piasas.	Number of main circuits.	MARKS USED (NUMBER).							AREA OF EACH THANA IN SQUARE MILES.			
													Old stones or pillars.	Trijunction marks. Burn & Co.'s cylinders	Galvanized cylinders.	Country stones.	Iron pegs.	Pegs.	Total number of stations at which theodolite was set up.	Kaliganj.	Maheshpur.	Baugan.	Gaighata.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Jessore Upland Traverse	Lat. 22° 52' 25" to 23° 26' 00." Long. 88° 40' 00" to 89° 02' 00."	Lat. 23° 30' 00" Long. 89° 30' 00"	763	3,232	16,567	77	65	1,990	763	20	15	3	33	1,516	246	...	...	14,773	20,673	...	197.18	226.96	94.84
Kalimpong—Bong Bocks, District Darjeeling.	Lat. 27° 02' 00" to 27° 05' 00." Long. 88° 26' 00" to 88° 30' 00."	Lat. 27° 02' 13.51" Long. 88° 27' 49.53"	3	66.31	559	7	5	37	3	...	...	...	Old stone 36	Chatan 83	Survey stone 80	Country stones 162	...	Peg 198	638	Kalimpong 4.56	Bong 2.84	Bhulukhap Kalimpong Bazar. 0.13	...
District Bankura Upland Traverse (Major operation).	Lat. 22° 54' 00" to 23° 31' 30." Long. 86° 55' 00" to 87° 24' 40."	Lat. 23° 00' 00" Long. 87° 30' 00"	1,241	3,340	18,853	101	87	1,181	1,241	31	23	3	151	2,185	324	5,243	...	10,950	23,701	...	..	..	..
District Nadia Upland	Lat. 23° 16' 40" to 23° 53' 00." Long. 88° 17' 40" to 89° 00' 20."	Lat. 23° 30' 00" Long. 89° 30' 00"	688	4,057	20,475	147	138	1,413	88	38	33	7	22	1,307	169	4	...	18,973	24,819	Tehatta 186	Meherpur 132	Chapra 128	Damurhuda 118
District Nadia Diara ...	Lat. 23° 54' 20" to 23° 48' 50." Long. 88° 08' 40" to 88° 32' 00."	Lat. 23° 30' 00" Long. 89° 30' 00"	901	1,240	7,563	52	49	519	301	18	1	2	113	491	284	...	...	6,675	9,227	...	...	...	...

APPENDIX I—PART A.

Statement showing particulars of each Survey Operations undertaken by Bengal Traverse Party during the year ending 30th September 1919.

DESCRIPTION OF WORK.	AREA OF EACH THANA IN SQUARE MILES.				Total area dealt with in square miles.	Area for cadastral same season in square miles.	Area for traverse next season in square miles.	Number of 16" sheets.	Number of 32" sheets.	Number of 64" sheets.	Number of 4" sheets.	Number of G. T. connections.	Average error in feet per mile.	Demarcations by inhabitants (good or bad).	Traverse data copied for Settlement Officer.	Maps used to guide surveyor.	Health of establishment.	Work started on.	Work completed on.	REMARKS.	
	Saraha.	Gangajighati party.	Bankura party.	Onda.																	
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Jessore Upland Traverse	130.01	...	...	...	...	648.99	...	661	1,427	...	...	...	6 (d)	7.05	Nil	Will be ready by 15th November 1919.	R. S. maps of season 1855-59.	Bad ...	12-11-1918	31-5-1919	Longitudinal correction 2' 27" 18 has been applied.
Kalimpong—Fong Blocks, District Darjeeling.	...	...	...	...	...	7.53	...	...	...	4	...	...	1 (c)	...	...	1" standard maps of season 1861 to 67 & 1880-81.	Good ...	16-11-1918	16-4-1919	Ditto	
District Bankura Upland Traverse (Major operation).	...	293	166	328	...	777	...	699	1,699	12	...	...	1 (b)	1.39	Nil	Will be ready by 15th November 1919.	R. S. maps of season 1854-55	Do. ...	6-11-1918	20-6-1919	Ditto.
District Nadia Upland ...	Krishnaganj 161	Jibannagar 77	Chuadanga 112	...	...	914	...	848	1,609	...	...	...	3 (a)	10.54	Fair	Supplied ...	4" R. S. maps of season 1849-55.	Bad ...	4-11-1918	16-6-1919	Ditto.
District Nadia Diara ...	...	..	...	...	...	271	271	...	647	8	...	...	...	...	Nil	Do. ...	4" R. S. maps of season 1848-57 & 1869-72.	Fair ...	4-11-1918	30-3-1919	Ditto.

(d) The following G. T. stations have been connected in district Jessore in season 1918-19 :—Berghom IV, Kanakpur V, Norada VI, Ghita VII, Pipragachi VIII, and Simlia IX, of East Calcutta Longitudinal series.

(c) The work of district Darjeeling was connected with Deolo h.-s. Plots for Fong and Kalimpong have not been prepared.

(b) The Kola h.-s. has been connected in district Bankura in season 1918-19 of Calcutta Longitudinal series.

(a) Gobindapur 1. S. XI, Kistonagar T. S. XII, Teraghari T. S. XIII of Calcutta Meridional series.

APPENDIX I—Part B.

Statement of outturn and cost rates for the year ending the 30th
September 1919.

DISTRICT AND TRACT.	Description of work.	Estimated area in square miles to be dealt with.	Year of inception of operation.	AREA SURVEYED IN SQUARE MILES.		COST RATE PER SQUARE MILE.		Balance of area in square miles remain for survey.	Estimated cost completing area in column 9.	Estimated final cost rate per square mile.
				During the year under report.	Total including previous year.	During the year under report.	From commencement to end of the year under report.			
1	2	3	4	5	6	7	8	9	10	11
Jessore	Traverse ...	2,900	1914	649	2,289	70·7	71·1	661	Rs. 47,000	Rs. 72
Kalimpong—Bong Blocks, District Darjeeling.	Do. ...	...	1918	7·53	7·53	278	27·8	...	...	278
Bankura	Do. ...	2,621	1914	777	1,321	67·4	89·4	700	62,300	89
Nadia upland	Do. ...	2,900	1917	914	2,052*	47·2	48	648	40,700	48
Nadia Diara	Do. ...	...	...	271	271					

Including 152 square miles area traversed of Rajshahi Diara and 271 of the Nadia Diara.

APPENDIX II—concl'd.

Statement of sums expended during the year ending 30th September 1919—concl'd.

DISTRICT AND TRACT.	Description of work.	EXPENDITURE INCURRED DURING THE YEAR UNDER REPORT.				TOTAL EXPENDITURE FROM INCEPTION TO END OF THE YEAR UNDER REPORT.			
		Direct charge including share of general section if any.	Share of control.	All indirect charges other than share of control.	Total.	Direct charge including share of general section, if any.	Share of control.	All indirect charges other than share of control.	Total.
1	2	3	4	5	6	7	8	9	10
Brought forward ...	.....	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...	Rs. ...
<i>Minor Operations—concluded.</i>									
Reproduction of 4" maps of district Dacca ...	Reproduction of maps	1,228	228	1,509	2,975	...	Not available	...	...
Ditto ditto Jalpaiguri ...	Ditto ...	1,567	287	1,913	3,767	...	Ditto	...	...
Ditto ditto Noakhali ...	Ditto ...	84	15	92	191	...	Ditto	...	...
Ditto ditto Rajshahi ...	Ditto ...	143	27	176	346	...	Ditto	...	...
Reproduction of 16" cadastral maps of certain villages in Bakerganj for sale.	Ditto ...	273	50	336	659	273	50	336	659
Ditto of Departmental	Ditto ...	162	28	182	362	249	47	272	568
Ditto village maps of Estate Sagore Island, 3rd portion, district 24-Parganas.	Ditto ...	5	1	6	12	5	1	6	12
Reproduction of 1"=1 mile map of mauza Dandra, district Noakhali, for insertion in Final Report.	Ditto ...	6	1	6	13	6	1	6	13
Reproduction of 1"=20 feet map of Akra-Matiaburz Road for Public Works Department, district 24-Parganas.	Ditto ...	15	2	16	33	15	2	16	33
Reproduction of 16" maps of Cooch Behar State.	Ditto ...	1,956	356	2,394	4,706	8,443	1,594	8,479	18,516
Reproduction of 50' Revenue Survey map of Panchanagram Estate within Cossipur-Chitpur Municipality.	Ditto ...	99	18	121	238	99	18	121	238
Reproduction of Survey and Settlement maps of Estates Gopalpur and Sambalpur bearing tanzi Nos. 511 and 190 of Dinajpur Collectorate for Collector of Dinajpur.	Ditto ...	73	14	90	177	73	14	90	177
Reproduction of 50' = 1 mile map of Howrah Municipality.	Ditto ...	282	51	339	672	290	53	346	689
Reproduction of 50' maps of Revenue Survey of Muniktaia for sale.	Ditto ...	126	24	150	300	126	24	150	300
Reproduction of 2" stone munitiles of certain thanas in district Faridpur for verification of boundary marks.	Ditto ...	120	23	147	290	120	23	147	290
Reproduction of 5 divisional maps in Bengal for insertion in Survey and Settlement Annual Report for 1917-18.	Ditto ...	268	50	230	648	268	50	330	648
Reproduction of 1" Final Police Station maps of Bakerganj.	Ditto ...	19	5	12	36	...	Not available	...	...
Reproduction of 1" district maps	Ditto ...	549	100	666	1,315	...	Ditto	...	...
Ditto 50' maps of Calcutta for sale ...	Ditto ...	42	9	52	103	...	Ditto	...	...
Ditto maps for jurisdiction mapping rules.	Ditto ...	9	3	11	23	9	3	11	23
Reproduction of 6 traces of pargana Denhata of Cooch Behar State.	Ditto ...	20	5	25	50	20	5	25	50
Reproduction of 16" maps of district Hooghly ...	Ditto ...	23	5	26	54	27	8	38	83
Ditto 16" maps of certain villages in Howrah.	Ditto ...	20	5	25	50	20	5	25	50
Reproduction of 1" "not final" maps of Midnapur.	Ditto ...	46	10	52	108	...	Not available	...	...
Reproduction of 1" "not final" maps of Mymensingh.	Ditto ...	139	26	170	335	...	Ditto	...	...
Reproduction of 1" "not final" maps of Rajshahi.	Ditto ...	68	13	70	151	...	Ditto	...	...
Reproduction of 1" final map of Bakerganj ...	Ditto ...	26	5	30	61	...	Ditto	...	...
Ditto ditto Darjeeling ...	Ditto ...	280	51	324	655	..	Ditto	...	...
Drawing section of Bengal Drawing office... ..	.....	15,166	2,752	166	18,094	98,852	17,841	1,585	1,13,278
Record section of ditto	Ditto ...	5,920	1,077	62	7,059	58,325	11,697	796	76,808
Map issue and copying section of Bengal Drawing office.	Ditto ...	7,602	1,384	124	9,110	30,179	8,378	468	37,025
Imperial standard mapping section (provincial share).	Ditto ...	3,754	...	...	3,754	31,278	...	...	31,278
Oomilla Survey School in district Tipperah ...	Ditto ...	12,498	...	...	12,498	1,12,358	...	285	1,12,643
Total Minor operations ...	.....	72,182	10,242	14,106	96,530	...	...	...	...
Total District operations ...	.....	1,68,001	30,592	58,667	2,57,260	...	...	...	...
GRAND TOTAL ...	.....	2,40,183	40,834	72,773	3,53,790	...	...	...	...

APPEN
Bengal Drawing
For the year ending

MAPS OF DISTRICTS, ETC.	REPRODUCTION									
	VILLAGE MAPS.							Miscellaneous		
	Previously supplied.		Supplied during the year.		Total to date.		Complete or incomplete.	Previously supplied.	Supplied during the year.	Total to date.
	Sheet or map.	Copies.	Sheet or map.	Copies.	Sheet or map.	Copies.				
1	2	3	4	5	6	7	8	9	10	11
BENGAL.										
Bakarganj	4,351	94,468	393	3,930	1,744	98,398	Incomplete	2,202	...	2,202
Bankura ... ..	...	...	...	...	...	...	...	262	640	902
Birbhum	229	30,388	...	...	229	30,388	Complete ...	...	...	...
Bogra	9	400	...	...	9	400	...	29	...	29
Burdwan	146	4,627	...	...	146	4,627	Incomplete	474	...	474
Calcutta ... ..	...	...	...	...	...	...	...	52,037	3,600	55,637
Chittagong	9,466	64,488	...	...	9,466	64,488	Incomplete	1,594	...	1,594
Dacca	7,946	1,105,253	...	...	7,946	1,105,253	Complete ...	9,595	...	9,595
Darjeeling ... ..	...	...	...	...	...	...	...	1,800	1,278	3,078
Dinajpur	59	5,465	8	840	67	6,305	Complete ...	195	...	195
Faridpur	7,227	687,408	6	925	7,233	688,333	Ditto ...	939	4,050	4,989
Hooghly	172	9,127	...	...	172	9,127	Ditto ...	...	...	...
Howrah	5	200	12	425	17	625	...	1,152	...	1,162
Jalpaiguri	3,118	233,978	...	...	3,118	233,978	...	7,639	...	7,639
Jessore	41	4,300	...	...	41	4,300	...	732	722	1,454
Khulna	83	5,822	...	...	83	5,822	...	15	...	15
Malda	31	3,275	...	...	31	3,275	...	...	...	...
Midnapur	20,859	1,355,212	768	68,520	21,627	1,423,732	Incomplete	12,065	...	12,065
Murshidabad	241	64,589	...	...	241	64,589	...	255	...	255
Mymensingh	11,924	971,881	497	28,705	12,421	1,000,586	...	6,287	3,120	9,407
Nadia	4	825	...	...	4	825	...	6	761	767
Noakhali	3,348	355,366	...	...	3,348	355,366	...	1,220	487	1,707
Pabna	42	3,960	...	...	42	3,960	Complete ...	...	192	192
Rajshahi	6,506	678,370	1,429	209,895	7,935	888,465	Incomplete	8,125	900	9,025
Rangpur ... ..	...	...	...	...	...	...	...	760	...	760
Tippera	26	2,250	2,874	374,772	2,910	377,022	Incomplete	8,188	...	8,188
24 Parganas	113	8,427	1	135	114	8,562	...	594	...	594
Cooch Behar	702	98,950	328	26,958	1,033	125,908	Incomplete	2,705	...	2,705
Departmental returns ... ..	...	...	...	...	...	...	...	38,304	10,863	49,167
Extra Departmental returns ... ..	...	...	...	...	...	...	...	98,449	22,160	120,609
Total ...	73,661	5,819,229	6,316	715,105	79,977	6,534,334	...	255,623	48,773	304,396

DIX III.

Office Outturn.

the 30th September 1919.

SECTION.

Triangulation chart.			JURISDICTION MAP 1"=1 mile.						Jurisdiction map 4"=1 mile.			District maps.		
Pre-viously supplied.	Supplied during the year.	Total to date.	Preliminary.			Final.			Pre-viously supplied.	Supplied during the year.	Total to date.	Pre-viously supplied.	Supplied during the year.	Total to date.
			Pre-viously supplied.	Supplied during the year.	Total to date.	Pre-viously supplied.	Supplied during the year.	Total to date.						
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
102	...	102	11,125	50	11,175	225	225	450	...	...	...	1,353	...	1,353
63	...	63	4,095	150	4,245	...	...	...	...	...	...	50	...	50
63	...	63	2,348	...	2,348	...	...	...	...	...	...	401	...	401
...	1,936	...	1,936	...	...	...	...	...	...	58	...	58
52	...	52	4,468	...	4,468	...	...	...	...	...	...	451	...	450
...
...	2,500	...	2,500	...	...	...	...	...	...	856	...	856
102	...	102	6,350	350	6,700	...	...	...	11,105	5,160	16,265	400	...	400
...	3,150	3,150	...	...	...	...	...	...	768	400	1,168
52	...	52	4,150	...	4,150	...	...	...	600	...	600	56	...	56
102	...	102	745	100	845	150	...	150	5,745	...	5,745	953	...	953
52	...	52	1,195	...	1,195	1,800	...	1,800	...	...	...	175	...	175
72	...	72	2,775	...	2,775	...	...	...	...	...	...	50	...	50
52	...	52	2,950	...	2,950	...	...	...	1,155	9,574	10,729	81	...	81
52	...	52	2,215	...	2,215	2,400	...	2,400	...	...	...	50	...	50
50	...	50	6,145	...	6,145	...	...	...	...	...	...	450	...	450
50	...	50	2,130	...	2,130	...	...	...	...	...	...	856	...	856
52	...	52	490	525	925	...	...	...	8,572	13,984	22,556	550	...	550
52	...	52	6,142	...	6,142	...	...	...	...	...	...	50	...	50
102	...	102	1,365	3,225	4,590	...	...	...	10,244	22,880	33,124	1,606	...	1,606
...	5,505	...	5,505	...	...	...	...	...	...	50	...	50
52	...	52	2,400	300	2,700	750	...	750	4,160	4,720	8,880	56	...	56
52	...	52	2,122	...	2,122	...	...	...	...	...	...	556	...	556
50	...	50	7,672	625	8,197	...	...	...	1,600	3,280	4,880	1,156	...	1,156
...	4,400	...	4,400	...	...	...	...	...	...	56	...	56
52	...	52	2,775	150	2,925	...	...	...	24	...	24	556	...	556
52	...	52	7,545	...	7,545	1,050	...	1,050	...	...	...	50	...	50
50	...	50	...	...	...	...	...	...	...	...	...	...	...	...
...
...
1,378	...	1,378	95,801	8,425	1,04,226	6,375	225	6,600	43,205	59,598	1,02,803	11,697	400	12,097

Bengal Drawing

For the year ending

DISTRICTS.	MAP RECORD											
	ORIGINAL CADASTRAL AND TOPO MAPS.			REVENUE DIARA AND TOPO MAPS.						TRAVERSE VOLUMES		
	Received.			Received.			Issued.			Received.		
	Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.
	Sheets.	Sheets.	Sheets.	Volumes.	Volumes.	Volumes.	Volumes.	Volumes.	Volumes.	Volumes.	Volumes.	Volumes.
27	28	29	30	31	32	33	34	35	36	37	38	
BENGAL.												
Bakarganj	6,294	...	6,294	12	...	12	...	...	...	67	...	67
Bankura	517	...	517	4	...	4	...	...	...	7	...	7
Birbhum	311	...	311	51	...	51	...	...	...	6	...	6
Bogra	369	...	369	14	...	14	...	...	...	5	...	5
Burdwan	281	...	281	6	...	6	...	...	...	29	...	29
Calcutta ... ..	...	...	...	74	...	74	...	...	...	28	...	28
Chittagong	3,560	...	3,560	20	...	20	...	...	...	59	...	59
Dacca	7,246	...	7,246	5	...	5	...	...	...	77	5	82
Darjeeling	549	...	549	14	...	14	...	...	...	24	...	24
Dinajpur	994	5	999	19	...	19	...	...	...	40	...	40
Faridpur	5,905	379	6,284	8	...	8	...	...	...	43	1	44
Hooghly	241	14	255	16	...	16	...	...	...	21	...	21
Hovrah	276	13	289	...	...	...	...	...	...	4	...	4
Jalpaiguri	5,102	89	5,201	14	...	14	...	...	...	70	...	70
Jessore	287	...	287	16	...	16	...	...	...	25	5	31
Khulna	447	...	447	2	...	2	...	...	...	16	...	16
Malda	194	69	263	25	...	25	...	...	...	17	3	20
Midnapur	13,663	119	13,782	17	...	17	...	...	...	87	...	87
Murshidabad	407	331	738	30	...	30	...	...	...	7	...	7
Mymensingh	11,070	800	11,870	60	...	60	...	...	...	78	6	84
Nadia	1	420	421	27	...	27	...	...	...	4	...	4
Noakhali	2,491	1,017	3,508	5	...	5	...	...	...	22	4	26
Pabna	629	131	760	27	...	27	...	...	...	10	...	10
Rajshahi	6,115	248	6,363	62	...	62	...	...	...	52	...	52
Rangpur	126	...	126	13	...	13	...	...	...	21	...	21
Tippera	3,356	2,155	5,511	18	...	18	...	...	...	41	40	81
24 arganas	524	...	524	43	...	43	...	...	...	47	...	47
Cooch Behar	781	...	781	7	...	7	...	...	...	14	...	14
Ganges Diara (Miscellaneous) ... ..	...	...	...	26	...	26	...	...	...	107	...	107
Sikkim ... ..	...	...	...	...	...	...	...	...	...	1	...	1
Hiji ... ..	...	...	...	8	...	8	...	...	...	...	...	...
Total	71,736	5,870	77,606	643	...	643	...	...	...	1,029	64	1,093

DIX III—concluded.

Office Outturn—concluded.

30th September 1919—concluded.

AND ISSUE SECTION.

OF ALL KINDS.			FIELD BOOKS.			Calcutta surveys original and fair maps.			Thana junction index and traverse, plots, etc.			Traces for reproduction.		
Issued.			Received.											
Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.	Pre-viously.	During year.	Total.
Volumes.	Volumes.	Volumes.	Volumes.	Volumes.	Volumes.	Sheets.	Sheets.	Sheets.	Sheets.	Sheets.	Sheets.	Sheets.	Sheets.	Sheets.
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
...	63	...	63	...	...	...	220	...	220	2,372	...	2,372
...	32	...	32	...	...	...
...	3	...	3	...	...	...	22	...	22	...	...	...
...	3	...	3	...	...	...	8	...	8	181	...	181
...	34	...	34	...	...	...	20	...	20	...	...	...
...	28	...	28	2,335	103	2,438	...	...	...	...	...	...
...	62	...	62	...	...	...	43	...	43	3,374	...	3,374
...	127	...	127	...	...	...	451	...	451	...	...	...
...	32	...	32	...	...	...	61	...	61	...	...	...
...	11	...	11	...	...	...	35	...	35	212	...	212
...	38	...	38	...	...	...	438	...	438	...	...	...
...	68	...	68	...	...	...	9	...	9	...	...	...
...	3	...	3	...	...	...	11	...	11	...	...	...
...	98	...	98	...	...	...	320	...	320	...	...	...
...	2	35	37	...	...	...	25	...	25	...	...	...
...	35	...	35	...	...	...	95	...	95	...	...	...
...	7	1	8	...	...	...	33	...	33	...	...	...
...	196	...	196	...	...	...	388	...	388	176	...	176
...	2	...	2	...	...	...	20	...	20	266	...	266
...	103	...	103	...	...	...	308	...	308	...	...	...
...	1	...	1	...	...	...	44	...	44	...	...	...
...	4	...	4	...	...	...	68	...	68	90	...	90
...	4	...	4	...	...	...	37	...	37	...	...	...
...	66	...	66	...	...	...	232	...	232	...	...	...
...	11	...	11	...	...	...	35	...	35	...	...	...
...	30	19	49	...	...	...	17	...	17	...	...	...
...	35	...	35	...	...	...	54	...	54	16	...	16
...	23	...	23	...	...	...	...	...	...	...	...	...
2	...	2	81	...	81	...	...	...	357	...	357	...	...	...
...	2	...	2	...	...	...	...	...	...	...	...	...
...
2	...	2	1,172	55	1,227	2,335	103	2,438	3,383	...	3,383	6,687	...	6,687

APPENDIX IV.

Statement showing traverse Survey and Reproduction of maps of the Districts under Settlement.

NAME OF DISTRICTS.	TRAVERSE SURVEY.							REPRODUCTION.							Remarks for increase or decrease in expenditure.
	Total area of the district estimated for survey.	Area completed up to previous year.	Estimated programme for the year under report.	Area completed during the year under report.	Remaining.	Estimated cost for the year.	Actual cost for the year (including control).	FORECAST BY THE DIRECTOR OF LAND RECORDS, BENGAL.		Number of sheets received.	Actual number of copies reproduced.	Estimated cost for the year.	Actual expenditure for the year (including control.)	Difference between columns (9) and (11).	
								Number of sheets.	Number of pulls.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Sqr. miles.	Sqr. miles.	Sqr. miles.	Sqr. miles.	Sqr. miles.	Rs.	Rs.					Rs.	Rs.		
Jessore	2,900	1,59	649	649	661	45,038	45,910	600	69,212	...	...	...	...	- 600	
Bankura	2,621	1,144	777	777	700	42,562	52,382	1,025	128,790	...	...	...	...	- 1,025	
Nadia (upland) ...	2,603	715	914	914	703	74,542	56,042	...	...	...	...	...	...	...	...
Nadia (diara) ...			271	271											
Mymensingh ... ..	...	...	...	...	...	...	...	400	30,960	591	28,705	...	3,915	+ 191	
Rajshahi ... ..	...	...	...	...	...	...	...	1,769	279,275	1,260	209,895	...	29,507	- 509	
Midnapur ... ..	...	...	...	...	...	...	...	...	5,375	460	68,520	27,000	12,053	+ 460	
Tippera-Noakhali ..	...	...	...	...	...	...	...	3,228	327,765	2,502	374,772	17,500	50,351	- 726	

[Maximum limit, 30 pages.]

REPORT
OF THE
DIRECTOR OF THE DEPARTMENT OF LAND
RECORDS, BENGAL.

—◆—
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REPORTS
ON
SURVEY AND SETTLEMENT OPERATIONS
IN BENGAL
FOR THE YEAR ENDING
30TH SEPTEMBER, 1919.



CALCUTTA :
BENGAL SECRETARIAT BOOK DEPÔT.

1920.

DEPARTMENT OF LAND RECORDS, BENGAL.

No. 1583.

FROM F. A. SACHSE, Esq., I.C.S.,

Director of the Department of Land Records, Bengal,

TO THE SECRETARY TO THE GOVERNMENT OF BENGAL,

REVENUE DEPARTMENT.

Dated Calcutta, the 5th January 1920.

SIR,

I HAVE the honour to submit the following report on the Survey and Settlement operations conducted by this Department during the year ending on 30th September 1919. Mr. W. H. Nelson, I.C.S., officiated till 5th November, and I have been in charge for the rest of the year.

Introductory.

2. **Major operations (Imperial).**—During the year under report, the major settlements of Midnapore and Mymensingh were all but completed, and the Rajshahi and Tippera-Noakhali operations also reached their final stages. The settlements of Jessore and Bankura were in full swing, and Nadia completed its first field season. In March instructions were received to revive the four party programme, which had been reduced to three during the war, and to take up the resettlement of all important Government and temporarily-settled estates, which had been kept in abeyance for the same reason. In pursuance of this decision the new settlement selected is Pabna-Bogra, and traverse of the first block will be done during the ensuing field season, while petty settlement parties have been organised in the districts of Bakarganj, Faridpur and Darjeeling.

During the year 2,098 square miles were finally published as opposed to 3,142 in 1917-18, 2,024 square miles as against 1,676 square miles were attested and 2,375 square miles passed through the stage of cadastral survey as compared with 2,517 square miles in 1917-18, 1,211 square miles in 1916-17, and 1,811 square miles in 1915-16.

3. **Minor operations (Provincial).**—In the last two years of the war no new estates had been taken up for land revenue settlement owing to the financial stringency. It is not desirable to take up piecemeal settlements of permanently-settled estates on the application of individual zamindars in districts which are due for major operations in the near future, and several applications were rejected on these grounds.

This branch of Provincial operations is becoming more and more limited as the programme of major settlements advances, and in the year under report only 316 square miles were cadastrally surveyed. Some work was, however, done in connection with the final stages of settlements of both classes initiated before 1916 in the districts of the 24-Parganas, Howrah, Mymensingh and Faridpur. Altogether a record-of-rights was finally published during the year for 3072 square miles of area within the sphere of Minor Operations.

4. **Total area completed.**—The total area for which up to the end of the year under report a record-of-rights has been completed is 32,132 square miles out of about 65,960 square miles in the Province to which the Bengal Tenancy Act applies. Details of this area have been given in Appendix I.

PART I.

Major operations.

5. **Mymensingh.**—Babu Hira Lal Sen, Sub-Deputy Collector, who took over charge at the end of the last year from Khan Sahib Saiyid Muazzamuddin Husain was Assistant Settlement Officer in charge under the Collector throughout the year.

6. *Progress and Expenditure.*—Details will be found in Appendix II. At the end of the year only a few cases under sections 105, 106 and 108A and some diara proceedings in rivers taken up after final publication were pending. Except for a few mauza bundles and the files of pending cases, all records have been made over to the Collector. He has not, however, received all the 1-inch and 4-inch maps. The special inquiry of Rai Sahib Hara Kishor Biswas into the feasibility of resumption proceedings in the Jamuna referred to in last year's report was completed. The Board passed orders on his report in May and directed that the resumptions should be proceeded with on the basis of the Revenue Survey. At the request of the Board a special officer, Babu Pramatha Nath Datta, Sub-Deputy Collector, has been placed in charge of the operations, which should be looked upon as an offshoot and not a pending portion of the district operations.

The main items of work gone through during the current year were a few arrears of printing, computation and recovery, and case-work. The cost rates during the year are noted below :—

Branches of work.	ACTUAL COST RATE PER SQUARE MILE.		Cost rate according to the complete estimate.	Standard cost rate.
	For the year.	Up to its end.		
Final records ...	92	43	33	54
Computation and Recovery	48	15	26	29
Case-work ...	22	21	26	16

The high cost rate in the press is due to the large number of interests in parts of the Kishorganj Subdivision and the number of plot indexes from the first two blocks which had been left to the end. The cost rate, up to date, however, is Rs. 11 below the standard. The scattered nature of the area under recovery accounted for the high cost rate under this head. The cost rate in case-work is below the estimated rate. The total cost of the operations up to the end of the present year is Rs. 40,95,792 as against the estimated cost of Rs. 41,86,602. After meeting the expenditure still to be incurred, including the cost of the Resumption Proceedings in the Jamuna, there will be a saving of about Rs. 50,000, which has been the direct result of a policy of economy in every branch of the work.

7. *Case-work.*—Two officers were engaged in the disposal of cases. One dealt with the cases at Tangail and the other with the original and remand cases of Sadar, Kishorganj and Bajitpur thanas; fair and equitable rents were fixed for 17,250 tenancies, while 387 cases under section 106 and 568 cases under section 108A were disposed of. These figures do not include the remanded cases which affected 1,330 tenancies. The average outturn of each officer per month was maintained at the very satisfactory figure of 800 tenancies under section 105, 16 cases under section 106, and 24 cases under section 108A. The cases under section 105, Bengal Tenancy Act, resulted in an increase of 25 per cent. in the tenants' rent, more than half of which was due to assessment of additional rent for excess area. In the majority of cases the Special Judge upheld the rate at which enhancement was allowed.

The total number of appeals instituted during the year was 97 against decisions under section 105 and 41 in cases under section 106, Bengal Tenancy Act. With those pending from the previous year, the number came to 286 and 195 cases under sections 105 and 106, Bengal Tenancy Act, respectively. Of these, 167 appeals in section 105 cases and 94 in section 106, were disposed of during the year with the result noted in Appendix VI.

8. *Recovery*.—One Assistant Settlement Officer for six months and two kanungoes for two months realized Rs. 2,01,570 against the estimated amount of Rs. 2,02,833.

9. *Diara*.—The programme of diara covered no less than 418 new estates. One Sub-Deputy Collector was employed throughout the year and two kanungoes for 5 months. Eighteen proceedings have been confirmed, and 32 others are under submission to the Board. Of the balance dealing with 368 estates, in 131 objections are being awaited, in 108 objections are under disposal and in 129 the proceedings are under preparation. The officer was deputed to cyclone relief work in October and the work is expected to take about 6 weeks after he rejoins. The land revenue of the estates in which the proceedings are already confirmed or are under submission to the Board is Rs. 13,082.

10. *Midnapore*.—Mr. F. W. Robertson, I.C.S., was in nominal charge in addition to his own duties as Settlement Officer of Bankura. Rai Sahib Bijay Bihari Mukharji, Deputy Collector, worked as Assistant Settlement Officer in charge till December 1918 when he was relieved by Babu Karali Charan Gangali, Deputy Collector, who is still in charge.

11. *Progress*.—Appendix II shows the progress and performance during and up to the end of the present settlement year. All *amabandi* work was concluded and the resettlement of the 19 temporarily-settled estates of Pataspur was confirmed by the Board. All the diara proceedings except two, have been confirmed by the Board of Revenue.

The arrears of statistics, 16-inch maps and printing were all worked off during the year under report.

12. *Expenditure*.—The actual expenditure during the year was Rs. 1,55,579 against the estimated amount of Rs. 1,94,481, while the actual expenditure up to the end of the settlement year was Rs. 29,81,003 against the total district estimate of Rs. 29,47,078. The work in this district is expected to be completed by the end of the current financial year and it is estimated that an additional expenditure of about Rs. 15,000 will be incurred. The excess which is mainly due to the large institution of cases, is more than made up by the excess in receipts.

13. *Recovery*.—The total computed demand of the district is Rs. 23,36,089-3, of which Rs. 22,18,191-8 has already been recovered, leaving a deficit of Rs. 1,17,897-11. Of this, however, Rs. 4,63,681 is payable by the Local Government and Public Bodies, Rs. 10,800 is under *kistibandi* with the Nawab Bahadur of Murshidabad while a sum of Rs. 18,362-12-6 made up of small sums of Re. 1 and less has been remitted after local enquiry. Of the real balance of about Rs. 42,000, Rs. 27,000 is payable by the Midnapore Zamindari Company and will probably be recovered in a short time.

14. *Case-work*.—The main item of work during the year was the disposal of cases. 14,737 cases with 66,090 tenancies under section 105, 2,725 cases under section 106, 1,911 applications for commutation of produce-rent under section 40, 23 under section 108, and 2,074 under section 108A were disposed of. The work started with 16 officers, but the number was gradually reduced to two at the end of the year. The total number of appeals instituted up to the end of the year in cases under section 105 and section 106 is 15,834 and 75 respectively. 2,685 of the former and 32 of the latter were disposed of. Generally speaking, the appellate courts approved of the procedure followed by the Assistant Settlement Officers of deducting 10 per cent. from the present survey area before assessing the excess area under section 52 of the Bengal Tenancy Act, except in cases where the tenants by written contract had agreed to pay for any excess found on measurement. The cost of court-fees disallowed by the lower courts was allowed on appeal by the Special Judge in all successful cases under section 105.

The number of cases yet to be disposed of includes :—

	279 cases under section 105, Bengal Tenancy Act.		
43	"	"	106,
98	"	"	40,
8	"	"	108,
1,599	"	"	108A,

A few more may be filed in 16 villages, which being affected by the diara operations were not finally published until the end of the year.

15. *Miscellaneous—Section 112, Bengal Tenancy Act.*—The most noteworthy event of the year was the confirmation by the Governor-General in Council of the rent settlement under section 112 of the Bengal Tenancy Act of pargana Silda belonging to the Midnapore Zamindari Company. The new rents have come into effect from the beginning of the present Amli year which commenced on 7th September. The local Government had applied for powers under this section for the Settlement Officer in 1913 as the only way of enabling him to avoid recording the recently enhanced rents of the aboriginal and semi-aboriginal mandal tenure-holders at a level above that which they could pay without in their turn enhancing the rents of their raiyats beyond the legal limit. The elaborate procedure involved in the preparation and application of tables of rates for five groups of villages was carried out during the two field-seasons of 1915-16 and 1916-17 with exemplary exactitude and patience by the two Assistant Settlement Officers, Babus Surendra Nath Banarji and Karali Charan Gangali.

When I took over charge, 1,603 appeals were pending for my decision which were disposed of in November and January, and the confirmation report was submitted to the local Government in March. The proceedings were confirmed without change by the Government of India on 11th August 1919.

16. *Rajshahi.*—Mr. W. H. Nelson, I.C.S., was Settlement Officer throughout with Babu Romesh Chandra Sen, Deputy Collector, as his Charge Officer.

According to programme the Operations should have come to an end in the year under review, but the heavy programme of Diara Proceedings has protracted the closing stages into the current settlement year.

17. *Progress.*—The area actually surveyed is 3,640 as against the estimated area of 3,820 square miles. Details of programme and performance will be found in Appendix II. Performance during the year was well in advance of programme in all stages except case-work. This accounted for the year's expenditure being Rs. 2,36,093 against the estimate of Rs. 1,63,307. The main items of work remaining are case-work and resumption proceedings.

18. *Expenditure.*—The total expenditure up to 30th September 1919 comes to Rs. 29,26,062 as against the estimated amount of Rs. 28,13,905. There is thus an excess of Rs. 1,12,157, but even with the addition of the estimated expenditure in the current year it will not mean an excess over the original estimate of more than 5 per cent. The excess in the cost rate of the stages shown below may be attributed to the large number of plots and interests per square mile. Plots averaged 1,433 and interests 447 per square mile, respectively, as against the standard of 1,000 plots and 250 interests on which the estimate was based :—

Branch of work.	Cost rate according to the total estimate.	Actual cost rate.
	Rs.	
Khanapuri	37	49.6
Bujharat	87	107.2
Attestation	61	84.6
Final Record	49	68.8
Case-work	17	26.6

19. *Jamabandi and Diara.*—Diara proceedings in respect of 181 estates covering an area of 29 square miles were drawn up. Proceedings relating to 54 estates were dropped, 32 have been confirmed, and the remainder are in course of preparation. The total area under *jamabandi* is 54,204 acres, of which the rent-roll for 3,683 acres has been confirmed. In these estates the increase in revenue is 20 per cent.

20. *Case-work.*—All but 500 cases filed in blocks A and B and half of block C were disposed of during the year. The total number of tenancies dealt with under section 105, Bengal Tenancy Act, was 40,730, and the result has been an increase in the raiyats' rent of 13 per cent. and in that of tenure-holders, of 34 per cent. 2,826 cases under section 106 were disposed of.

One hundred and fourteen appeals were heard against decisions in cases under section 105, and in no instance were the decisions upset. None of the appeals against decisions under section 106 have as yet come up for hearing. Cases in respect of 10,609 tenancies were pending at the end of the year, while it is expected that in areas where the period for institution of cases has not yet expired, applications in respect of 10,000 tenancies will be made. Of suits under section 106 of the Bengal Tenancy Act, 1,067 were pending when the year closed. Five hundred more are expected.

21. *Recovery*.—The total area for which computation has been concluded up to date is 3,283 square miles. Recovery has been completed in 3,181 square miles. The total computed demand was Rs. 20,23,270 of which Rs. 18,21,734 has been realised up to date. Of the balance of Rs. 2,01,536, Rs. 20,013 is under certificate; Rs. 13,592 is payable by the Local Government for khas mahal estates; Rs. 97,089 is due on instalments arranged beforehand with the landlords; Rs. 10,554 is under remission as irrecoverable and Rs. 60,288 will, it is expected, be realised before 31st March.

22. *Miscellaneous*.—Cess revaluation of 1,139 estates was pending on 30th September, 1918. Of these, 1,089 have been completed and only 50 estates which are under settlement of land revenue, are pending.

23. **Tippera-Noakhali**.—Mr. W. H. Thompson, I.C.S., was in charge until he went on leave on the 14th of September. Khan Sahib Kabiruddin Ahmad worked as Charge Officer until January 1919 when he was transferred to Nadia. Maulvi Abdul Jalil Khan was Head-quarters Assistant Settlement Officer.

24. *Progress and Expenditure*.—The details of the work done together with the expenditure incurred during the year and up to date are given in Appendix II. The total area in the joint operations actually surveyed came to 2,991 square miles, as against 3,200 square miles shown in the estimate. To this there was an addition of 4 square miles lying within the ambit of the previously surveyed Pargana Chakla Roshnabad which had been omitted at the previous settlement. Over and above this, all stages subsequent to bujharat including *jamabandi* were done by this settlement of 19 square miles of diara land in the river strip surveyed by the Dacca and Faridpur Parties. The work is ahead of the programme as the following figures will show :—

	According to programme up to date.	Actual performance.
Statistics ...	2,450	3,014
16" maps ...	2,450	2,963
Topo maps ...	2,450	2,771
Printing ...	2,450	3,014
Computation and Recovery ...	1,950	2,000

The total area coming under resettlement of land revenue was estimated to be 318 square miles and this figure has been shown in column 5 of Appendix II, but the actual area was 254 square miles and this has all been completed. The following is an abstract of the work still on hand at the close of the year under review :—

Computation ...	700 square miles.
Final publication and recovery ...	800 " "
Preparation of jurisdiction list ...	6 thanas
Case-work ...	91,512 tenancies.
Maps ... { 16" ...	51 square miles.
4" ...	953 " "
1" ...	2,427 " "
2" ...	1,713 " "

Nothing of decisions of cases under sections 105 and 106 in the public copies of the record-of-rights under section 107, Bengal Tenancy Act.

The postponement of recovery in Brahmanbaria thana twice—once in October 1918 and again in July 1919—on account of floods and economic distress is responsible for the arrears in recovery and case-work. But it is expected that practically all arrears will be worked off by the end of the next financial year. The expenditure during the year excluding special work was Rs. 3,11,783 which exceeded the budgeted figure of Rs. 2,68,533, but as

explained above, this was due to the work done being largely in excess of the estimate. The expenditure up to date of Rs. 21,33,008-1-7 compares favourably with the sanctioned estimate of Rs. 24,52,000 for the entire operations, and after allowing for the cost of all pending work, a considerable saving may be expected.

25. *Cadastral*.—All stages from traverse to final publication were completed in a small area of 4 square miles in Alekdiba mahal and certain Lakheraj Bajepati mahals within the ambit of Pargana Roshnabad which was not covered by the Notification of 1910. There were some difficulties about adjustment of boundaries with the previously surveyed areas, which were disposed of after local inquiry.

26. *Attestation and Miscellaneous Branches*.—The area under attestation was 183 square miles with 72,207 interests. It was spread over thanas Muradnagar, Chandina, Comilla, Chaudagram and Laksam. Three-quarters of the area of these thanas was completed in the previous year and no new problems arose. The number of objections, however, increased to 16,193 as opposed to 7,129 in the previous year. The people had been warned by their experience in the villages attested before to examine the entries in the records in good time and they put in objections wherever they had doubts. Sixty per cent. of the objections related to possession and shares and the number of objections filed by tenants against landlords was nearly double that of the previous year. The attitude of the tenants in this respect indicates a growing consciousness of their own rights and of their power to assert them. Thirty-seven per cent. of the cases were successful or partially successful. Land revenue was resettled in 78 estates with an area of 44 square miles. The services of two whole-time officers were required to complete the programme. The records of 67 estates with an area of 38 square miles were finally published during the year, and 11 estates with an area of 6 square miles were finally published after the close of the year. The land revenue in the former group increased from Rs. 45,814-5-7 to Rs. 60,569 or by 32 per cent. There were no rivers in the last two blocks of Tippera in which diara proceedings were necessary.

27. *Case-work*.—Thirteen thousand and fifty-nine cases under section 105, 313 cases under section 106 and 870 cases under section 108A were disposed of. There were three officers at the beginning of the year and they were assisted by five others during the recess. Institutions in the Sarail Estate in the Brahmanbaria Subdivision have greatly exceeded expectation and this estate alone is filing about 35,000 cases. If this estimate is approximately correct the number of tenancies to be dealt with in the next settlement year will exceed 90,000 tenancies. The result of the year's working has been an increase in the rent of tenures, of 26 per cent. and in the rent of raiyati-holdings, of 30 per cent. The total number of appeals filed up to the end of the year is 377, all of which have been disposed of.

28. *Final Publication and Recovery*.—Exclusive of the area under diara and *jamabandi* the total area from which costs are to be recovered is 2,749 square miles. Two thousand square miles are already completed and the remainder will be finished in the current financial year. The total amount recovered without certificates during the year was Rs. 5,10,282-12-6, which considering the economic position, is quite satisfactory. The raiyats generally were quite eager to pay, and their keenness to obtain records and maps is evidenced by the fact that even in Brahmanbaria, which suffered from floods and famine, 80 per cent. of the raiyati demand was paid up within a month.

29. *Miscellaneous and Cess Revaluation*.—The assessment of 1,908 estates in the District of Noakhali was completed in previous years and the balance of 792 estates with their separate accounts were dealt with in the year under review. The rolls were duly published and the files arranged and made over to Collector. The result is compared with the pre-existing valuation in the statement below :—

	Old.		New.	
	Rs.	A.	Rs.	A.
Valuation	35,59,081	11	38,05,634	2
Cess	1,98,583	0	2,11,829	0

The net increase of Rs. 13,245-15-8 is much less than was anticipated but many mistakes in the previous valuation, chiefly the assesment of cess raiyats as tenure-holders, came to light. The cost of the revaluation has been Rs. 32,699.

30. *Handing over the records to the Collector.*—Satisfactory progress has been made in Noakhali and the bound volumes have all been made over to the Collector. In Tippera the work has not yet been started, but as it has been arranged that the Collector should keep the records in the settlement record-room, no undue delay should occur.

31. *Settlement Buildings.*—The Committee appointed under Government Resolution No. 900-T.R. of 28th July 1919 have decided that the settlement buildings including the Press sheds and the Press store-room subsequently built should be taken over by the Police Department. The Collector is already occupying the Settlement Officer's residence.

32. **Bankura.**—Mr. F. W. Robertson, I.C.S., was Settlement Officer throughout the year. Babu Surendra Nath Banarji, Deputy Collector, worked as Charge Officer for attestation, and Babu Satamanyu Mukharji was Cadastral Charge Officer during the field-season.

33. *Progress and Expenditure.*—The main items in the programme were 968 square miles of attestation in block A and 797 square miles of cadastral survey, khanapuri and bujharat in block B. Attestation was completed very easily, but though the area actually encountered in block B was 3 miles less than the standard block, the programme was only completed in September after a severe struggle which proved a heavy tax on the health and energy of the staff. For this, the epidemic of influenza and fever which decimated the amins at the beginning of the season was mainly responsible. The average number of amins under each kanungo never exceeded six and khanapuri was started very late with the result that the kanungos were out in the fields to the very end of the rains. As a consequence there was no one to supervise final janch at headquarters, but sufficient was done before the end of September to enable the presses to start work in November and the arrears have now been worked off.

The expenditure during the current year has been Rs. 4,76,706 as against the budget figure of Rs. 4,78,661 and that up to date is Rs. 7,86,402 against the sanctioned estimate of Rs. 9,22,574. The cost rates during the year and up to date are compared with the sanctioned estimate in the statement below :—

	Cost rate for the year.	Cost rate up-to-date.	Cost rate according to sanctioned estimate.
	Rs.	Rs.	Rs.
Cadastral	128	107	114
Khanapuri	41	35	39
Initial recess	22	19	18
Attestation	33	33	62
Objections	7	7	25
Janch	25	25	20

The Asansol Subdivision is the most advanced industrial tract in the province, if not in India as a whole, and both cadastral survey and khanapuri presented special and peculiar difficulties. The excess over the estimated cost rates in these branches in the second year of the settlement need therefore cause no anxiety, as the cost rates up to date are well within the estimate and the remaining blocks of Bankura will not be expensive. The cost of attestation in A Block is a sufficient indication of this.

Kistwar, Khanapuri and Bujharat.—The Settlement Officer never recovered from the bad start caused by the outbreak of fever and influenza which kept most of his amins idle in November and December and frightened away many others. To add to his difficulties rumours were prevalent that prices in the area were high, coolies were expensive and difficult to obtain, and the people were unsympathetic, if not actively hostile. These rumours were not without justification. Ten to twelve annas per diem was the lowest wage a chainman would accept, and even at these rates the supply was not equal to the demand. In the end the colliery officials gave valuable help, but in the meantime two of the most precious months of the field-season had passed with very little in the way of substantial progress. Fields were very small and very irregular in their shape and what with collieries, railways and trolley

lines, workshops and other pucca buildings, kistwar was difficult and tedious. Khanapuri hardly made better progress. The value of royalties on coal made every inch of land worth fighting for, and the number of boundary disputes was large. Estates are small and much split up and thak comparison had to be very carefully done. Separate collections by many groups of co-sharers made the record confusing and the record of the Asansol Municipality presented unusual complexities. The number of co-sharers in rayati-holdings was unprecedented and this meant a large number of disputes regarding shares and possession. Acquired lands were sufficiently numerous to add considerably to the kanungo's work and the verification of the boundaries described in colliery leases involved the study of an unusual number of documents. In the circumstances, the late finish was not surprising and only Mr. Robertson's own example of untiring labour could have given his staff sufficient courage to struggle on to the end. The number of plots to a square mile was 1,309 and of interests 275. These remarks fortunately do not apply to the two circles in Bankura district where the work was as simple as in block A.

35. *Attestation.*—The record was simple on the whole, but the Officers were not all experienced and the clerical staff was inefficient. The proper organization of janch involved much hard work at the beginning of the season, but progress then became smooth and rapid. Many tenants took advantage of section 50, Bengal Tenancy Act, to claim fixity of rent and in the majority of the cases the landlords had little evidence by which to rebut it. Illegal enhancements except in Chatna thana were rare. As noticed in last year's report, a surprising variety of produce-rents was encountered. Sometimes the rent of a holding is an animal, a couple of vegetables, or a broom-stick. Ordinary produce rents are common, and sometimes both cash and produce are paid. An appreciable number of these combined rents are found in the case of purchased holdings in which the old raiyat remains in possession and pays greatly increased rent to the purchaser. A few cases were found in which in lieu of rent the tenant works in the landlord's field for a fixed number of days. Some peculiar incidents were found in lands growing sugarcane. Here the tenants paid rent annually but grew cane only in one year, while the landlord grew *rabi* crops thereon in the next. Some lands were claimed as *utbandi* in thana Simlapal and in parts of Raipur. It appeared that the tenants paid rent for *danga* lands only for the years they grew crops on them, but the holdings had fixed limits and there was no custom of annual measurement.

The number of objections was small, being only 6 per square mile. Of these 34 per cent. were allowed.

36. *Miscellaneous.*—The relations of landlords and tenants in the area dealt with are on the whole satisfactory, but the Bengal Coal Company, the late Babu Chandra Sekhar Sarkar and Babu Jagat Bandhu Singh Chaudhury certainly do not err on the side of leniency in the treatment of their tenants. Increased facilities for employment in industrial concerns have not weakened the Bengali's characteristic attachment to his ancestral home. The pleaders of Asansol still return every week to their houses near Raniganj, while it is reported that many of the labourers in the Bengal Iron and Steel Works daily come and go from villages 15 miles distant.

37. *Ghatwali Resumptions.*—Steps were taken to resume all unresumed *ghats* within each attestation circle. After discussion with the Collector and the Commissioner some variations were introduced in the *kabuliyats* granted at earlier resumptions. Of 218 *ghatwals* 139 have already executed *kabuliyats* and the Settlement Officer hopes that the remainder will follow their example at an early date. Most of the *ghatwali* tenures in the Asansol Sub-division were resumed in 1906. One *digwari* holding still exists in the villages of Parra and Kendwa. This was not resumed under special orders of the Government and the holder still attends the Subdivisional Officer's Court and is liable for service. The tenure is rich and important as the Bengal Iron and Steel Works have been erected on its land. A number of unresumed *ghatwalis* exists in Saltora and Majhia thanas. These will be taken up at attestation.

One peculiar form of *chakran* tenancy is called *ialsasan chakran*. The land is enjoyed either rent-free or at quit-rent on condition that the grantee constructs and maintains tanks for the use of surrounding lands.

38. *Administration of the Bengal Tenancy Amendment Act.*—There were altogether 14 cases reported under section 49H of the Act by the Attestation Officers and two by the Collector. The Settlement Officer thinks that steps should be taken to give a wider publicity to the provisions of the Act and that, in any case, it has come too late to do very much good. The Sonthal does not look upon the Act as an unmixed blessing and the limitations on free transfer affect him rather adversely in a year of scarcity. The introduction of Co-operative Grain Golas is possibly essential to the successful working of the Act.

39. **Jessore.**—Khan Bahadur Abdul Momen joined as Settlement Officer on 1st October. Khan Shahib Muazzamuddin Husain and Babu Abani Kumar Sen worked as Charge Officers.

40. *Progress and Expenditure.*—The programme was extremely heavy. It comprised 656 square miles of kistwar and khanapuri including 182 square miles left over in Narail from last year, bujharat of an area of 936 square miles including an arrear of 462 square miles, and attestation of 812 square miles. Allowing for some variations due to miscalculation of area the whole was completed. The number of plots increased at all stages, with the result that bujharat was actually done of 1,638,041 plots, an unprecedented burden even for 80 kanungos in one season. The actual number of interests attested was 650,036 as against an estimate of 338,000. Attestation Officers worked right up to the Pujas, and final janch is the one item in which the programme is now in arrears. An excess over the original estimates in the expenditure of this settlement became inevitable when it was decided to convert it into a four-block settlement in the middle of the first field-season. The disappearance of the traverse pegs laid down in 1914 in the expectation that the work would begin in 1914-15 was mainly responsible, but much of the expenditure incurred before the staff was disbanded in that season must be written-off as unproductive, and the large number of plots and interests to the square mile has doubled the estimated cost of printing and attestation. The task of recasting the estimates for the settlement, as a whole, has been postponed to the end of the current field-season in the hope that some excuse may be found for a more optimistic budget than the figures for A and B blocks would at present justify. That strict economy is being observed in every branch will appear from the following comparison :—

	Actual cost rate up to date.	Cost rate according to sanctioned estimate.	Standard cost rate for four-block district.	Standard cost rate adjusted on the basis of plots and interests per square mile.
	Rs. A.	Rs.	Rs.	Rs.
Cadastral ...	108 0	117	115	115
Khanapuri ...	77 9	40	39	55
Initial recess ...	19 10	26	18	18
Bujharat ...	101 4	86	94	112
Attestation ...	130 3	61	66	191

It will appear from the above that the total cost rate up to date of the first four branches comes to Rs. 306-7 as against a cost rate of Rs. 300, which the increased number of plots and interests would justify, but there is a considerable saving in attestation.

41. *Cadastral Khanapuri.*—The Jhenida Subdivision is fairly high, as a whole, but there are very few big villages without one or more large *bils* or marshes, which only dry up late in April. The dense jungle which has overgrown many depopulated villages and homestead sites full of bamboos and *pan*-groves hampered the progress of survey, and very little help was received from the villagers who were both apathetic and ignorant. Changes in the course of the Madhumati and the absence of traverse stations on the Faridpur 16-inch maps made reconciliation of the boundaries of the newly surveyed villages with those of previously settled areas more than usually troublesome. Further, there were innumerable cases of land held under different landlords or under various titles having been sublet as one holding, and the settlement staff soon found that they could look for little help from the landlords in unravelling complications of this nature.

42. *Attestation.*—The progress of attestation was very slow owing to similar difficulties and the large number of different interests paying a common rent. An idea of the volume of work involved in the check of cross references of rent may be gathered from the fact that in one circle with 36,493 interests there were 4,123 rent references or *barat* entries. The proportion of under-raiyats to raiyats continues to be high and in the area under attestation was 75 per cent. Generally it has been found that the under-raiyats are treated as having the same privileges as raiyats and have occupancy right by custom. So far few cases of enhancement of rents have been found and claims to statutory *mukarrari* right have been numerous. Cess in a number of estates is realised at one anna instead of half anna per rupee and other *abwabs* are not infrequent, but generally the relations of landlords and tenants are good. In pargana Yusufpore a winter allowance—*sitari*—is realised at annas 8 per head, while the marriage expenses in the zamindar's family are recouped by a levy of annas 8 from each tenant. Instances have been found where *abwabs* in the shape of collection expenses are realised at one anna to 6 annas per rupee of rent.

Rent-receipts are generally granted, but as they seldom show the area, the landlords will have great difficulty in putting forward claims for increased rent.

Jessore has notoriously a bad climate, but the season of 1918-19 surpassed all records in this district. One Sub-Deputy Collector died of fever at the beginning of the season, and a Deputy Collector had to be relieved after 3 months. One kanungo was attacked with cholera, and it was rare to visit any *halika* in November or December without finding the kanungo and at least half his amins down with fever. Several amins died of cholera and influenza, and when the amin was well enough to work the absence either of his muharrir or chainman made work impossible. The Settlement Officer distributed quinine wholesale, employed a whole-time Sub-Assistant Surgeon and encouraged all his officers to engage themselves most unselfishly in Red Cross work. But, in the meantime, all hopes of completing the programme before the rains had vanished. That it was in the end completed even a little earlier than in Bankura and in Nadia I attribute to the strong feeling of attachment which the hardworking Charge Officers and staff of this settlement bear to the person of their Settlement Officer.

43. **Nadia.**—The Settlement Officer Mr. J. M. Pringle, I.C.S., was on leave from 17th of January to 23rd July. Khan Sahib Kabiruddin Ahmad was in charge till 10th March when Mr. H. C. V. Philpot, I.C.S., was appointed to officiate as Settlement Officer. Khan Sahib Kabiruddin Ahmad reverted to the general line before Mr. Pringle returned, but Babu Kalipada Maitra remained as Charge Officer and headquarters Assistant Settlement Officer.

44. *Progress and Expenditure.*—The details of the first season's working are given in Appendix II. The diara areas to be surveyed had been overestimated and when all the maps were finished, it was found that 953 square miles instead of 1,035 in the programme had been dealt with. This decrease accounts for the greater part of the saving of Rs. 85,000 on the original estimate. Plots are not very much in excess of the standard figure of 1,000 per square mile, but interests run to 437 as against the standard of 250 per square mile.

The cost rates of the different stages are as follows :—

	Actual.	Cost rate according to sanctioned estimate.	Standard cost rate.
	Rs.	Rs.	Rs.
Kistwar	101	116	115
Khanapuri	49	40	39
Initial recess	22	18	18
Bujharat	96	91	94
Total	268	265	266

45. *Area and special features.*—The first block of this settlement stretched on both sides of the Bhagirathi river on the west of the district from the southern boundary of Murshidabad to the Jubilee Bridge at Naihati and

included six Municipalities. Ninety-four of the 953 square miles surveyed lay on the west bank in the Burdwan, Hooghly and Murshidabad districts. The remaining area inside the Nadia district has been divided by the Settlement Officer for purposes of description into three zones, each having its own characteristics not only as regards physical features but system of land-tenure. The northernmost area is open except in the immediate vicinity of the village sites, and most of the land is high and sandy. Depressions marking the course of defunct rivers occur at intervals and in these *aman* rice both transplanted and broadcast is cultivated. Elsewhere *aus* and *rabi* are grown but after three years' cropping, the fields are almost invariably left fallow for an equal period. The Settlement Officer has not been able to trace any investigations into the natural qualities of the Nadia soil which make this regular fallowing necessary, and recommends the subject to the attention of geological experts. In a sparsely populated area of more or less barren soil, the system of land-tenure known as *utbandi* does not seem unnatural, and it has retained many of its traditional characteristics. Rent is paid only for the area actually under cultivation each year and though particular fields seldom pass from one raiyat to another, the same family taking the same plot back into cultivation time after time, there is more fluctuation between the holding as it exists in one year and the common stock than the Settlement Officer was at first inclined to believe. The tenants certainly enjoy a right of piecemeal surrender which is not an incident of the ordinary raiyati holding or of the tenancies with fixed limits but a varying rent referred to by the Rent Commissions under the name of *hal-hasili*, and, in the circumstances, it would be difficult to hold that the landlords have lost their right of re-entry by disuse.

In the central zone between the Jallangi and Churni rivers the country is less open. There is a large proportion of low black soil growing *aman*, but *aus* is still the main crop. There are signs that cultivation is extending, whereas further north a state of equilibrium has already been reached. Two of the municipalities in this area, Krishnagar and Birnagar, are in a state of visible decay, but Santipur is the most flourishing town in the district. The sugar industry is dying, but the peasantry, especially in the vicinity of the towns, have been helped by the excellent railway communications with Calcutta to depend very largely for their income on market-gardening.

Claims to *mukarrari* rights are frequent among raiyats and under-raiyats alike, and here also extensive areas are claimed as *utbandi*. As in the north, local custom makes a clear distinction between the lands let in *jamai* and *utbandi* holding, but it appears that many of the legal criteria of *utbandi* holdings, especially the yearly measurement, are, if not altogether absent, at least much less prominent and unmistakable. Both these zones are notoriously unhealthy, the water-supply is bad, even the resident landlords do nothing for their tenants, and *abwabs* are heavy.

The last zone in the south lies in police stations Ranaghat, Chakdaha and Haringhata. Deserted houses falling into decay and orchards and gardens overgrown with thick jungle supply abundant evidence of a departed prosperity. The predominating soil is of a rich black clay, fallowing is comparatively rare, and tobacco, chillies and *aman* are the chief crops. A large number of tenancies are described in the landlords' papers as *utbandi*, but the term here seems to connote a terminable lease unaccompanied by any written document rather than a floating tenancy with a rent varying according to the area actually cultivated in each particular year. The term is also applied to ordinary under-raiyati tenancies, both cash and produce paying. Sufficient information was gathered about these tenancies during khanapuri and bujharat to make it clear that the so-called *utbandi* tenancies comprised many different grades and classes, all of which could not possibly be real *utbandi* according to the accepted interpretation of the Tenancy Act. It was obvious that attestation would give considerable difficulty and it was apprehended that the existing rules might not cover all doubtful cases. Attestation camps were, therefore, opened in several circles towards the middle of the rains. Under the orders of the Settlement Officer some of these camps in the end devoted themselves entirely to inquiries into the fluctuations and incidents of typical *utbandi* tenancies. The progress made (42 square miles) was not therefore great and many khatians had again to be revised, but the

experience gained in experimental attestation afforded an opportunity for the provisional settlement of the treatment to be accorded to the main types of *utbandi* tenancy, and enabled a good start to be made in the ensuing field season.

The Settlement Officer has already begun the economic inquiries for which a special request was made in Government letter No. 9340, dated the 12th December, 1918, and from an examination of the history of over 4,000 families, has come to the conclusion that the annual mortality is 2 per cent. He calculates the income per head required at present prices to keep a family above actual want as Rs. 50, and finds that in the southern area 33 per cent. of the families, and in the northern area more than 50 per cent., must be assigned to this class. Indebtedness ranges between one-fifth and three-fifths of the annual income of each family. As the Settlement Officer remarks; the figures would seem low in Dacca or Faridpur, but the *utbandi* lands do not form a good security and the indebtedness of the poorer families is limited by their credit.

The diara area covered a strip about 2 miles wide on each side of the Revenue Survey course of the Bhagirathi. Municipalities outside the jurisdiction of the Nadia district were excluded except in so far as was necessary to complete the records of Revenue Survey mauzas parts of which lay inside and parts outside the municipal area.

In connection with this area the Settlement Officer notes two interesting facts. In mauza Matiari, police-station Kaliganj, metal-work to the value of 3 lakhs is turned out annually. Every house is a factory. The large *char* formations, 4 or 5 miles north of Hughli town, are colonised by immigrants from Tippera and retired up-country labourers from the mills.

As in other settlements, the season was phenomenally unhealthy and in November and December every report from a circle camp which he opened increased the Settlement Officer's feeling of despair. Hardly one of the Circle Officers and kanungos escaped at least two attacks of fever, and in many *halkas* out of an average of 13 amins recruited only two or three were working week after week. The diara sheets were received very late and, very few of the villages being of recent formation, plots were small and all stages were more complicated than in many villages of the interior. Kistwar was still going on round Navadwip in July and having regard to all the handicaps not the least of which was the weak health of Mr. Newton, the Technical Adviser, it is a subject for congratulation that the staff did in the end accomplish its full programme before the Pujas.

46. **Inspection of Cadastral Survey and Khanapuri.**—The following statement gives figures for each major settlement. The system of field bujharat is now established in all settlements and every plot is tested by the kanungo on the ground :—

				NUMBER OF LINEAR MILES OF <i>partial</i> PER SQUARE MILE.	
				By whole staff.	By officers only.
Bankura	...	...	...	3·6	·24
Jessore	...	...	...	3·6	·14
Nadia	...	..	...	4·2	·06

It will be noted that the quantity of *partial* obtained in each settlement was well above the standard of 2 miles to a square mile.

Minor Operations.

47. **Hooghly and Howrah.**—The work in both districts is under one officer, Babu Kshitish Chandra Haldar, who is to be congratulated on his recent appointment to the Provincial service. A senior Settlement kanungo was deputed to Hooghly for three months and to Howrah for one month for field bujharat.

48. **Hooghly.**—There was no estate under re-settlement of land revenue, and no additions were made to the programme of advances recoverable operations during the year, but after bujharat and attestation final records were completed for an area of $3\frac{1}{4}$ square miles. The records of two other estates were finally published, in one of which, with an area of 2 square miles,

costs were also recovered. Three hundred and seventy-eight cases under section 105, Bengal Tenancy Act, and 63 cases under section 106, Bengal Tenancy Act, were instituted, of which 352 cases under section 105 and 37 cases under section 106 were disposed of. Only 5 appeals have been filed against the Assistant Settlement Officer's decisions, all of which are pending.

The programme for the year has been completed except for the fact that an area of $1\frac{3}{4}$ square miles in one estate has not yet been finally published. The programme is up to date and the expenditure is within the sanctioned estimate. Rent-free and *mukarrari* claims continued to be the special feature. Out of 3,132 interests attested 588 were recorded as rent-free and 206 as raiyati holdings with fixed rent.

49. **Howrah.**—There was one Government estate under Land Revenue Settlement, Mahal Balichak, Tauzi No. 3447. The *ijaradar* who had taken settlement in 1902 for 20 years was continually in arrears. The lease in consequence was cancelled and the estate brought under *khas* management. In the new record now ready for final publication, the previous classifications of land were cut down from 18 to 8, and these were assessed at uniform rates. The 21 appeals filed were disposed of in August. The revenue has increased from Rs. 3,032-5-4 to Rs. 4,527-11. Of the 5 estates under Advances Recoverable Operations, the record for estate Debattar Singhbahini was abandoned as the applicant died and his sons did not want to proceed with the case. Otherwise the programme for the year is in arrears only in respect of estate Kumar Chak, of which final publication has been delayed. Two hundred and ninety-three cases under section 105, Bengal Tenancy Act, and 109 cases under section 106, Bengal Tenancy Act, were instituted during the year, of which 227 cases under section 105 and 48 cases under section 106, have been disposed of. The remaining work is confined to the disposal of the pending cases of Mahal Jagadisore and Nawabpore and any that may yet be instituted in Mahal Kumar Chak. The expenditure is within the sanctioned estimate.

50. **24-Parganas.**—Records were in course of preparation for seven estates, two of which were Government estates. Applications in regard to new estates were rejected on the ground that the District Settlement would begin in 1922. The records of tauzis 2998, 25, 239 and 1263 were completed and final reports submitted. The cases under sections 105 and 106 of the fifth estate, Tauzi No. 3040, were disposed of, of the sixth, Tauzi No. 2968, the rent-roll was confirmed, and the records of the remaining estate, Tauzi No. 2653, Lot No. 16, which is also a Government estate, reached the stage of draft publication. If the proposals in the rent report are approved, the revenue will rise from Rs. 2,662 to Rs. 4,085. The programme, therefore, is practically up to date. The most important item of work during the year was the disposal of cases in estate Amirpur (Tauzi No. 3040). There were 81 suits under section 106 and 350 applications under section 105, Bengal Tenancy Act. Of the cases under section 105, compromise was effected in 84, 73 were disposed of *ex parte*, 31 were withdrawn, and 40 contested. The rest were dismissed or struck off for default. Of the cases under section 106, Bengal Tenancy Act, 35 were contested, 23 were compromised and the rest otherwise disposed of. Even the cases subsequently compromised were severely contested. The officer in charge was a first grade Deputy Collector and the cost exceeded the original estimate on this account.

51. **Khulna.**—The final reports of the two tenures of the Syedpore Trust Estate were submitted to Government with this office letter No. 6163, dated the 4th September, 1919. The case of Government Estate Boyarsingha has not yet been disposed of. It is understood that the question of the settlement of spill area is under the consideration of the Irrigation Department. It will probably, therefore, stand over till the Khulna District Settlement is taken up. There is no other work on hand and the Petty Settlement office has been closed.

52. **Dinajpur.**—The two private estates, Tauzi Nos. 511 and 190, which were taken up last year, were completed during the year. There were 379 cases under section 105, Bengal Tenancy Act, and the rent increased from Rs. 1,087 to Rs. 1,445 or by 32.93 per cent. The sanctioned estimate was not exceeded.

53. **Faridpur.**—Babu Brojendra Nath Das Gupta continued to be in charge. Records were completed for four Government and temporarily-settled estates (Tauzi Nos. 380, 4004, 6338 and 6369) which were pending at the close of the last settlement year. The amount of land revenue increased from Rs. 13,820 to Rs. 19,320. Fluvial action has improved the fertility of the lands, and compared with the rates in adjoining villages the rents were unduly low. Copies of the finally published records were distributed in all these estates, but the vandyked maps have not yet been received for all estates. Another Government Estate (Tauzi No. 6513) with an area of 3 square miles was added to the programme and completed up to attestation. It went under water before the objections under section 103A could be disposed of and will be finished this year.

54. **Malda.**—A small Government Estate (Nischintapur, Tauzi No. 186) was taken up by the Collectorate staff. The rent-roll is under draft publication.

Mathurapur Estate.—The settlement of Mahal Enaitpore, Tauzi No. 60 of the Malda Collectorate, was completed during the year. One thousand three hundred and seventy-five cases under section 105 and 31 cases under section 106, Bengal Tenancy Act, were disposed of after a protracted hearing by a Munsif Assistant Settlement Officer, while 18 cases under section 106 were transferred to the Civil Court. The estate claimed that the wholesale enhancements in 1902-1904 were justified under section 29 of the Bengal Tenancy Act, because the tenants were then released from the obligation of growing indigo, but the Court was unable to hold on the evidence that the rates in force up to that date had ever been fixed at an especially low level on that account though it might be true that but for the liability to grow indigo they would have been enhanced many years before. In fact, in some cases, half those rates had been paid for lands actually growing indigo, and it was difficult to believe in a double reduction. The gross expenditure exceeded the estimate by 60 per cent., but the large sum realized in court-fees amounting to Rs. 6,139 reduced the net expenditure to close on the estimated figure.

55. **Mymensingh (Minor).**—At the end of last year three appeals were pending in estate 5176. These were disposed of and the records were printed and finally published. The other two estates in the programme are of very minor importance.

56. **Maintenance of records.**—There were two different schemes, one for Mahal Enaitpur, Tauzi No. 60 (Mathurapur Estate) in Malda, and the other in Fatehsingh, Tauzi No. 253, in the district of Murshidabad.

Fatehsingh in Murshidabad.—The scheme of maintenance sanctioned under section 158 of the Bengal Tenancy Act was in its second year's working. The Special Officer, Maulvi Abdul Latif Chaudhury, completed the programme in 3 months and 10 days, and in addition, discharged the duties of Certificate Officer until he was replaced by Maulvi Ekramuddin in July.

Changes made in the previous year had increased the number of khatians to 12,271, to which a further addition of 63 was made. Changes affecting 2,093 tenancies were registered. The percentage of interests affected was therefore 17 as against 9·4 of the previous year. The increase is attributed chiefly to the epidemic of influenza.

Changes due to inheritance numbered	...	...	1,645
" " recognised transfers numbered	...	...	209
" " transfers treated as recognised under section 139, B. T. Act numbered	...	...	19
" " unrecognised transfer numbered	...	...	77
" " auction sales for arrears of rent numbered	...	...	25
" " surrender numbered	...	...	7
" " abandonment numbered	...	...	22
" " re-settlement after <i>khas</i> possession numbered	...	...	6
" " new settlement numbered	...	...	13
" " changes in area accompanied by changes in rent numbered	...	...	36
" " alterations in cess numbered	...	...	9
" " other causes numbered	...	...	25
Total	...	...	2,093

The Officer in charge was not altogether satisfied with the attention received from the Nawab Bahadur's staff, and the preliminary lists of changes which the landlord is called upon to file according to the rules were often inaccurate. Nevertheless the entire programme was completed in good time, and the total expenditure did not exceed Rs. 1,940.

Mahal Enaitpore.—A similar scheme had been sanctioned for the 10 annas share of the Enaitpore Mahal in Government letter No. 2982 of the 22nd March, 1918, in order that the certificate procedure already in use for the share directly under the Court of Wards might be applicable to the whole estate. Babu Upendra Kumar Mitra, Sub-Deputy Collector and Assistant Settlement Officer, was selected to carry through the first year's working under the supervision of the Settlement Officer of Rajshahi.

The number of tenancies affected was 2,340 and changes were made in 456 tenancies or a little more than 19 per cent. The reasons for change are classified as follows :—

Inheritance	...	...	...	...	367
Unrecognised transfers of entire holdings	...	...	...	...	20
" of part	...	...	...	...	62
Recognised transfers (including amalgamation)	...	...	...	...	3
New settlements	...	...	...	...	3
Escheat for want of heirs	...	...	...	...	1
					<hr/>
				Total	456

Eight corrections were made in the maps.

The entire programme was completed in a month and the total cost incurred was Rs. 645-9-9. Next season the work will be done by the Collector's staff under the supervision of this Department. Some additional villages in the Diara block of the Rajshahi settlement will be included in the programme.

Neither in Fatehsingh nor in Mathurapur was the attendance of parties satisfactory. To some extent the difficulty was obviated by the fact that the records were revised in a large number of sub-camps, but a certain number of non-resident tenants will always be found, and it is possible that, in future, recourse will have to be made more freely to the coercive powers with which the Maintenance Officers are entrusted. It should not be impossible in most cases for the non-resident tenants to appoint some resident tenant as their agent to look after their interests from year to year.

Judged by results the provision for draft publication seemed somewhat superfluous. There was no objection in Fatehsingh and only one in Mathurapur. This was of the nature of a title dispute and the objector was referred to the Civil Court.

The two sets of detailed rules hitherto in force for these operations have now been amalgamated with a view to making them applicable to all estates coming under the provisions of section 158 of the Tenancy Act and the orders of Government are under issue. One point of difference will, however, remain in that in Fatehsingh, the khatians of under-raiyats are not maintained, whereas in Mathurapur they are.

PART II.

57. **Final Reports.**—The final reports on the Noakhali and Mymensingh Settlements were received in the course of the year. Both are ready for submission to Government. Of those received last year, the final report of Midnapore was published, but the preparation of an Appendix volume containing important correspondence and documents, has delayed the issue to the public of the Jalpaiguri report, which was submitted to Government in June. Final reports of the following Minor Operations were also received during the year.

- (1) Final report on the settlement of side lands of the Grand Trunk Road, in the districts of Hooghly and Burdwan by Babu Satamanyu Mukharji, Deputy Collector.
- (2) Final report on the estates Dihi Lalpore, Datia Anantapur, Dihi Bali (Nadia), and Dihi Mandalshar in the district of Murshidabad by Babu Abinash Chandra Banarji, Deputy Collector.

- (3) Final report on Debipur, Tauzi No. 25 and Madrasa, Tauzi No. 2998, in the district of the 24-Parganas by Babu Bisweswar Bhattacharji, Deputy Collector.
- (4) Final report of Gilatala and Bil Pabla, in the district of Khulna by Babu Rash Behari Mukharji, Deputy Collector.
- (5) Final report of Gopalpur and Sambalpur, in the district of Dinajpur by Maulvi Abdul Majid, Deputy Collector.
- (6) Final report on the Revisional Operations, in pargana Fatehsingh by W. H. Nelson, Esq., I.C.S.

58. **Strength of the Kanungo Establishment and Training of Probationers.**—The number of kanungos on the list on 1st October 1918 was 265. There were 14 promotions to the Subordinate Executive Service, and 6 kanungos either resigned or had to be discharged. One kanungo obtained an appointment as District Agricultural Officer and another joined the staff of the Improvement Trust in Calcutta. There was one death during the year. In order to fill the vacancies 27 candidates were selected for the training camp which was organised at Berhampore in August and September by Mr. Pringle, the Settlement Officer. After arranging for the necessary deputations to the petty settlements of Kalimpong, Bakarganj and Faridpur, 25 of these were distributed among the settlements as probationers.

59. **Training of Junior Officers.**—The Training Camp was located this year in village Bogra on the Grand Trunk Road between the Railway stations of Raniganj and Kalipahari. In the continued absence of many junior members of the Indian Civil Service on military duty, the only officers that could be spared to attend the camp were two Indian members of the Indian Civil Service and seven members of the Provincial Service. There were also five Deputy Superintendents of Police and two members of the Court of Wards. Mr. Robertson, the Settlement Officer of Bankura, was in charge and earned the thanks of Government for the unsparing trouble he took to make the training both profitable and pleasant. The material was quite up to the average, and it is believed that all the Officers benefited from the experience.

60. **Training of Munsifs.**—Five Munsifs completed their usual period of training in May and reverted soon afterwards. The sixth Munsif recruited in 1917 left the department at an earlier date. All these officers acquired a thorough knowledge of the settlement procedure, which will be of considerable assistance to them in their judicial work. Six new Munsifs joined the department at the beginning of the field season, 1918-19.

61. **Jurisdiction.**—The completion report of the demarcation and relay of boundaries between the district of Midnapore and the Moharbhaj State was received during the year. Masonry pillars have been constructed and maps showing their position were prepared and forwarded to the Director of Surveys.

Jurisdiction Lists of 25 thanas were published in the course of the year, while 40 notifications affecting the jurisdiction of different police-stations were checked in this office. The changes in the boundaries of Faridpur, Jessore and Khulna owing to the deflection of the Madhumati were defined and notified.

62. **Maintenance of Boundary Marks.**—The numbers of pillars erected and checked during the year will be found in Appendix X. Sixty-five per cent. of the registered marks have been checked, of which 2 per cent. were found damaged and 8 per cent. missing. There has been no case of the wilful destruction of a boundary pillar, and on the whole the instructions in the Manuals are properly observed.

The settlement operations in the districts of Mymensingh, Midnapore, and Rajshahi being practically complete, arrangements had to be made for distributing the marks to chaukidars, dafadars and panchayats. In Dacca, the Circle Officers will take charge of the maintenance of traverse stones, and with the gradual extension of the circle system there is every reason to hope that the difficulties in this respect experienced hitherto will disappear. In Jalpaiguri the Deputy Commissioner is revising the previous arrangements for the proper care of all marks left by the Settlement Party.

63. **Utilisation of Settlement records and maps.**—The Collectors of all districts in which finally published records are available report a steady

extension of the use to which these records are put in all administrative departments, and even in those areas where the record-writing is in its preliminary stages, extracts and copies are frequently produced by parties both in the civil and criminal courts. Nevertheless, considerable improvement is still possible especially in the matter of land acquisition. The increasing popularity of the settlement records and maps with the public is evidenced by the statistics of sales. During the year under review 1,409,253 copies of khatians and 9,036 plot indexes were sold to the public and 8,28,844 interests and 6,543 plot indexes were made over to Government Officers. In the matter of maps also the returns were satisfactory. Fourteen thousand two hundred and fifty-one cadastral maps, 2,374 thana maps and 39 district maps were sold to the public, while 7,792 village maps, 57 district maps and 5,543 thana maps were issued on public service. The total income derived from the sale of records and maps amounted to Rs. 55,994 in cash and Rs. 23,496 in court-fees. Mymensingh was again the most enterprising district in this respect, no less than 442,712 copies of khatians being sold. Further details as regards maps will be found in Appendix XI and as regards records, in Appendix XII.

64. **Diara Proceedings.**—As has been observed in previous paragraphs, the diara proceedings in Mymensingh and Rajshahi have been the chief obstacle to the punctual winding up of the operations. From this point of view the Settlement Officer of Tippera-Noakhali was fortunate in finding no work of this nature in his last two blocks. The procedure is elaborate and tedious, but the Diara Officers have reason to be satisfied with the results of their work. There is hardly a case in which the Board have not accepted the proposals of the Settlement Officers almost without modification, and the cases which have come before the Civil Courts from the earlier settlements have received favourable treatment.

65. **Judicial Work of the Director.**—In connection with the 114 Government and temporarily-settled estates for which confirmation reports were received during the year 327 appeals were filed, while 1,558 were pending from last year. One thousand eight hundred and seventy-nine were disposed of and 6 remain pending. The great majority of the appeals related to the proceedings under section 112 in the Silda pargana of Midnapore.

66. **Tours.**—I spent 130 days on tour and Mr. Nelson 3. All the Major Settlements were visited on at least two occasions, and Jessore and Nadia five or six times. In each settlement the inspections included visits to mufassal camps, khanapuri, attestation, recovery, or case-work, as the case might be.

67. **Promotions and prospects.**—During the year under report two Sub-Deputy Collectors, Babu Kasiswar Chakrabarty and Babu Abinash Chandra Banarji, were promoted to the Provincial Service and 14 specially selected kanungos were appointed Sub-Deputy Collectors with a view to working eventually as Circle Officers. My Personal Assistant, Babu Bijay Bihari Mukharji, was awarded the title of "Rai Sahib" in recognition of his valuable work in the Midnapore Settlement. In pursuance of the arrangements made last year to avoid the retention of any officer on settlement duty for an unduly long period, ten Deputy Collectors and four Sub-Deputy Collectors were permanently reverted to general duties. They included Khan Sahib Kabiruddin Ahmad, Babu Sudhir Chandra Ghose, Babu Satamanyu Mukharji and many others whose names will long be remembered in the districts in which they have worked.

68. **Settlement Staff.**—The staff for the year comprised 4 members of the Indian Civil Service, 1 member of the Provincial Service holding a listed appointment, 22 Deputy Collectors, 13 Munsifs, 46 Sub-Deputy Collectors and 1 Technical Adviser of the Bengal Survey Department. No Civilian was available to serve as Charge Officer in any of the major operations. There were two regrettable casualties—Maulvi Minnat Ali, Sub-Deputy Collector, who did excellent work in *iamabandi* and diara in Midnapore, succumbed to a sudden attack of influenza, and Maulvi Muzammal Huq, a new Sub-Deputy Collector of promise, died in Jessore. I have already referred in previous paragraphs of the report to the disastrous effects of influenza and fever in all three settlements in which field work was in full swing. The difficulty of completing the annual programme in a district saturated with malaria has

been realistically described by Mr. Milligan in his final report on the Jalpauri Operations, but I doubt if even in his worst season conditions were as bad as in Jessore and Nadia during this unhealthy year. Cholera and malaria are always endemic in Jessore and Nadia, but it was disappointing that Bankura should have suffered nearly as severely. But for the sympathy and patience which all three Settlement Officers displayed to a very high degree, their debilitated and harassed staffs could never have found courage to complete the heavy programmes. Mr. Pringle toured incessantly in Nadia until he was forced to take a holiday to England in January, and as he remarks it was a career of sick-bed visitation rather than of field inspection. He had no Charge Officer and his Technical Adviser was for the most part ill. Mr. Philpot worked hard and unselfishly during the months he was in charge. Mr. Robertson in Bankura had to meet the demands of the training camp, and the distance of his head office in Bankura from the scene of his cadastral and bujharat programme was a heavy handicap. Nevertheless his field inspections were well distributed and searching. Khan Bahadur Abdul Momen in Jessore had the heaviest programme of all. It is true he had a very large staff, but he organised it with striking ability and this settlement has now recovered from a very unfortunate start. Mr. Thompson before he went on leave in September finished the final reports both of Noakhali and Tippera. He has served as Settlement Officer in four major settlements, and no officer of his seniority has done better work for the department. Mr. Nelson, who made over charge of the Rajshahi operations which he had controlled from the beginning, in November last, has maintained the excellent record of that settlement to the end. All the Charge Officers enhanced their previously high reputations, and tribute has been paid to their work in dealing with their respective settlements. Of the many other Officers not previously mentioned who have done particularly well this year the following deserve special mention :—

Deputy Collector.

Babu Jamini Prasanna Ray.

Sub-Deputy Collectors.

Babu Amulya Kumar Guha.
 „ Chinta Haran Das Gupta.
 Maulvi Shamsuzzoha Ahmad.
 Babu Pramatha Nath Datta.
 „ Jogesh Chandra Mitra.
 „ Girish Chandra Das.
 „ Anath Bandhu Chatarji.
 „ Janaki Bhusan Singh.
 „ Lal Mohan Basu.
 „ Sati Prasad Gangali.
 „ Surendra Nath Sen Gupta.
 „ Rai Charan Pal.
 „ Prabhat Chandra Banarji.

Babu Mahendra Nath Gupta, Deputy Collector, gave up the appointment of Personal Assistant after five and a half years' valuable services in January. His place has been ably filled by Rai Sahib Bijay Bihari Mukharji, who has laboured incessantly in the interests of the Department.

In conclusion, I desire to convey my thanks to Mr. O'Donel who was in charge of the Survey Department during the absence of Major Hirst, as also to the Collectors who have been in charge of the districts without a whole-time Settlement Officer, for their ungrudging help.

I have the honour to be,

Sir,

Your most obedient servant.

F. A. SACHSE,

*Director of the Department of Land
Records, Bengal.*

APPENDICES.

[N.B.—Figures in these Appendices which do not agree with those in the last year's Report are revised figures.]

APPENDIX I.

Progress of Survey and the preparation of a record-of-rights in the Province.

NAME OF DISTRICT.	Area (excluding large rivers).	RESERVED FORESTS.		UNSETTLED WASTE AT THE DISPOSAL OF GOVERNMENT.		SETTLED AREA TO WHICH THE BENGAL TENANCY ACT HAS NOT BEEN EXTENDED.		SETTLED AREA TO WHICH THE BENGAL TENANCY ACT HAS BEEN EXTENDED.			
		Area.	Scale and date of Survey.	Area.	Scale and date of Survey.	Area.	Date of cadastral Survey under other Acts.	Total.	Area in which a record-of-rights		
									Has been finally published.	Is in course of preparation.	Remains to be prepared.
1	2	3	4	5	6	7	8	9	10	11	12
Burdwan ...	2,678	...	...	...	...	...	...	2,678	99	...	2,579
Birbhum ...	1,740	...	...	...	...	...	...	1,740	209	...	1,531
Bankura ...	(a) 3,244	...	...	...	...	...	...	3,244	51	1,771	1,422
Midnapore ...	5,056	...	...	...	...	...	...	5,056	5,056	...	...
Hooghly ...	1,213	...	...	...	...	...	...	1,213	58	2	1,153
Howrah ...	510	...	...	...	...	...	...	510	2	5 (b)	503
24-Parganas ...	4,844	1,758	...	1,191	...	...	...	1,895	110 67 (b)	3	1,782
Calcutta ...	8	...	...	...	...	8	1911 in respect of 4 square miles.	...	...	...	...
Nadia ...	2,725	...	...	...	...	...	...	2,725	183 (f) 27 (b)	953 28 (g)	1,589
Murshidabad ...	2,143	...	...	...	...	...	...	2,143	169	...	1,974
Jessore ...	2,915	...	...	...	...	...	...	2,915	82	1,457	1,376
Khulna ...	4,765	2,089	...	...	...	...	...	2,676	260	6	2,410
Dacca ...	2,832	...	...	...	...	...	...	2,832	2,832	...	...
Mymensingh ...	6,432	...	...	...	...	...	...	6,432	6,432 (h)	...	...
Faridpur ...	2,471	...	...	...	...	...	...	2,471	2,461 14 (b)	3 (b)	10 (e)
Bakerganj ...	3,490	131	16" = 1 mile. District operations 1905-06.	516	16" = 1 mile. District operations 1905-06.	...	...	2,843	2,843 14 (b)	...	...
Chittagong ...	2,492	364	4" = 1 mile. District operations 1888-89.	486	16" = 1 mile. District operations 1888-89.	...	...	1,442	1,374	...	68
Noakhali ...	1,649	...	...	...	...	...	...	1,649	3,506	642	...
Tippera ...	2,490	...	...	...	...	...	...	2,490			
Rajshahi ...	(c) 3,708	...	...	...	...	...	...	3,708	3,489	219	...
Dinajpur ...	4,132	...	...	...	...	...	...	4,132	519	...	3,613
Jalpaiguri ...	2,924	505	4" = 1 mile. 1907-08.	...	...	382	4" = 1 mile. 1907-1910.	2,037	2,037	...	...
Rangpur ...	4,090	...	...	...	...	...	...	4,090	143	...	3,947
Bogra ...	1,359	...	...	...	...	...	...	1,359	53	...	1,306
Pabna ...	1,839	...	...	...	...	...	...	1,839	68 (d)	...	1,771
Malda ...	1,832	...	...	...	...	...	...	1,832	96	...	1,736
Darjeeling ...	1,164	436	4" = 1 mile. 1905.	22	...	706	Kalimpong 1902-03, Siliguri 1897-98, West Tista 1906-07, Act V of 1875.	...	...	...	...
Total ...	74,764	5,483		2,215		1,096		66,960	32,132 222	5,058 41	28,770

- (a) Including Asansole Subdivision of the district of Burdwan.
 (b) Revisional.
 (c) Including diara strips of Pabna, Nadia and Murshidabad.
 (d) River strips done from Faridpur.
 (e) Area transferred from Jessore.
 (f) Includes the area done by the Settlement Officer, Rajshahi.
 (g) Being done by the Settlement Officer, Rajshahi.
 (h) Including diara strips of Rangpur, Pabna, Bogra and Tippera.

APPENDIX II.

Progress and cost in district operations during the year ending 30th September 1919.

District Mymensingh—commenced 1907.

Estimated area 6,693 sq. miles.

7 Blocks

BRANCH OF WORK.	Unit of report.	PROGRESS.				COST (INCLUDING BOOK DEBIT AND INDIRECT CHARGES).							
		For year under report.		Up to date.		For year under report.			Up to date.			Cost rate to which sanctioned estimate for whole operation works out.	Standard cost rate for 2-block, 3-block district, etc. (as the case may be).
		Programme according to sanctioned programme for whole operation.	Performance.	Programme according to sanctioned programme for whole operation.	Performance.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Cadastral survey	Square miles ... ..	...	...	...	6,432	Rs.	Rs.	Rs.	6,27,966	6,25,847	97	94	115
Khanapuri	Plots ... ..	...	...	...	5,658,776	...	...	...	2,28,376	2,29,120	36	34	39
Initial recess	Square miles ... ..	...	...	...	6,432	...	...	...	1,61,204	1,00,833	16	15	18
Bujharat	Plots ... ..	...	...	...	5,699,535	...	...	...	5,05,808	4,89,102	75	75	94
Attestation	Interests ... ..	...	...	...	1,708,921	...	...	...	...	...	...	...	...
Draft publication	Square miles ... ..	...	...	...	6,423	...	...	...	3,89,266	3,94,759	61	58	66
Objections	Interests ... ..	...	...	...	1,709,472	...	...	...	...	...	...	...	...
Final office work—	Square miles ... ..	...	...	...	6,423	...	...	...	144,801	91,794	14	22	27
Janch	Ditto ... ..	...	...	...	6,423	...	...	...	...	...	...	...	...
Statistics	Ditto ... ..	...	...	...	6,423	...	...	...	...	81,166	13	13	20
16" maps	Ditto ... ..	...	...	...	6,423	...	...	...	...	37,166	6	6	10
Topographical maps	Ditto ... ..	...	...	...	6,423	...	...	92	4,19,207	47,068	7	8	6
Final records	Ditto ... ..	...	64	...	6,423	...	5,907	...	...	10,882	2	1	2
Interests	Interests ... ..	...	20,000	...	1,666,616	...	...	...	...	2,73,910	43	33	54
Computation and recovery	Square miles ... ..	...	122	...	6,423	...	6,804	48	1,05,091	96,530	15	26	29
Final publication	Ditto ... ..	...	96	...	6,423	...	...	...	...	...	...	...	...
Case work—	Ditto ... ..	...	560	...	...	...	...	...	...	...	...	...	...
Section 105	Tenancies ... ..	...	17,250	...	...	...	...	...	...	...	...	...	...
" 106	Square miles ... ..	...	387	...	6,363	...	12,559	22	1,74,612	1,36,064	21	26	16
" 108A	Cases ... ..	...	568	...	...	...	...	...	...	...	...	...	...
" 40	Square miles ... ..	...	...	...	...	...	...	...	...	...	...	...	...
" 40	Cases ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Jamabandi	Square miles ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Daira	Ditto ... ..	...	...	...	...	...	20,162	...	13,883	13,139	...	...	...
Operations under section 112	Ditto ... ..	...	...	...	...	...	...	...	...	49,651	...	...	...
Municipalities	Ditto ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Supervision ... ..	...	...	...	...	...	...	...	...	9,15,645	8,61,564	...	...	...
Demarcation ... ..	...	...	...	...	...	...	...	...	...	24	...	...	...
Supplies, services and contingencies—	...	...	...	...	...	...	...	...	...	...	...	...	...
(1) Ordinary ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
(2) Press ... ..	...	...	...	...	...	3,000	3,667	...	4,96,516	3,81,615	...	...	...
Director of Land Records' control ... ..	...	...	...	...	...	...	1,934	...	64,732	1,17,448	...	...	...
Total ... ..	...	...	...	...	...	...	...	...	...	65,111	...	...	...
Special work ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL ... ..	...	...	...	...	...	...	32,005	...	82,222	41,86,602	...	...	...

APPENDIX II—contd.

Progress and cost in district operations during the year ending the 30th September 1919.

District Midnapore, commenced 1911-12.

Estimated area 4,140 sq. miles.

5 blocks.

BRANCH OF WORK.	Unit of report.	PROGRESS				COST (INCLUDING BOOK DEBIT AND INDIRECT CHARGES).							
		For the year under report.		Up to date.		For year under report.			Up to date.		Cost rate to which sanctioned estimate for whole operation works out.	Standard cost rate for 2-block, 3-block, district, etc. (as the case may be).	
		Programme according to sanctioned programme for whole operation.	Performance.	Programme according to sanctioned programme for whole operation.	Performance.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.			Actual cost rate.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Cadastral Survey ...	Square miles ...			4,140	4,140	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Khanapuri ...	Ditto ...			4,140	4,140				5,34,491	5,34,427	129	129	115
Initial Reconn ...	Plots ...			5,953,417	5,953,417								47
Biharat ...	Square miles ...			4,140	4,140	672	1,369		1,98,742	2,08,378	50	48	18
Attestation ...	Ditto ...			4,140	4,140								
Draft publication ...	Interests ...			5,958,688	5,958,688				3,90,004	3,93,172	94	94	95
Objection ...	Square miles ...			1,745,763	1,745,763								91
Final office work—	Interests ...			4,140	4,140								
Janch	Square miles ...			1,745,763	1,745,763								27
Statistics	Ditto ...			4,140	4,140				50,308	51,891	12	12	
16" maps	Cases ...			94,808	94,808								
Final records	Square miles ...			4,140	4,140	1,440	365		1,62,617	1,62,241	39	39	20
Computation and recovery	Ditto ...	230	230	4,140	4,140	1,900	1,198	5.20	51,330	42,783	10	12	10
Final publication	Ditto ...	15	15	4,140	4,140				21,259	10,978	3	5	6
Cash work—	Ditto ...	290	290	4,140	4,140								
Section 105	Interests ...	87,000	87,000	1,774,173	1,774,173	18,075	11,927	41.12	2,63,469	2,40,966	28	64	95
Section 106	Square miles ...	290	290	4,140	4,140	28,764	19,793	68	95,088	1,05,896	25	23	29
Section 40	Ditto ...	290	290	4,140	4,140								
Section 108A	Ditto ...	1,423	1,572	4,095	4,013								
Jamabandi ...	Tenancies ...	71,163	66,090	200,090	194,927								
Diara ...	Square miles ...	1,423	1,572	4,095	4,013								
Operations under section 112	Cases ...	2,750	2,725	6,009	6,005	87,911	73,955	47	1,19,767	1,58,399	38	29	16
Municipalities	Square miles ...	1,423	1,572	4,095	4,013								
Supervision	Cases ...	2,653	1,911	7,005	5,272								
Supplies, services and contingencies—	Square miles ...	3,290	1,377	4,140	2,227								
(1) Ordinary	Cases ...	4,384	2,074	5,000	2,690								
(2) Press	Square miles ...	45	45	45	45				10,044	9,113			
Director of Land Records' Control	Ditto ...			1	1				8,058	9,341			
Winding up	Ditto ...	236	236	236	236			12	28,604	44,010			
Total						1,94,481	1,55,579		29,47,078	29,81,003			
Special work													
GRAND TOTAL						1,94,481	1,55,579		29,47,078	29,81,003			

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APPENDIX II—contd.

Progress and cost in district operations during the year ending 30th September 1919.

District Rajshahi—commenced 1912.

Estimated area, 3,820 square miles.

(Including Pabna, Nadia and Murshidabad river strips)—5 Blocks.

BRANCH OF WORK.	Unit of report.	PROGRESS.				COST (INCLUDING BOOK DEBIT AND INDIRECT CHARGES).							
		For year under report.		Up to date.		For year under report.			Up to date.			Cost rate to which sanctioned estimate for whole operation works out.	Standard cost rate for 2-block, 3-block district (as the case may be).
		Programme according to sanctioned programme for whole operation.	Performance.	Programme according to sanctioned programme for whole operation.	Performance.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Cadastral survey ...	Square miles ...	...	...	3,820	3,640	...	...	...	4,21,600	3,64,167	100	110	115
Khanapuri ...	Ditto ...	...	...	3,820	3,640	...	...	...	1,41,980	1,80,817	50	37	47
Initial recess ...	Plots ...	...	...	...	5,070,902	...	...	...	...	...	...	...	...
Bujbarat ...	Square miles ...	...	...	3,820	3,640	...	...	...	-67,160	49,725	14	18	18
Attestation ...	Ditto ...	...	...	3,820	3,640	...	...	...	3,33,580	3,90,450	107	87	95
Draft publication ...	Plots ...	...	...	...	5,217,242	...	...	...	...	...	...	...	...
Objections ...	Interest ...	...	...	...	1,554,740	...	...	...	2,35,100	3,08,271	85	61	91
Final Office Work—	Square miles ...	...	...	3,820	3,640	...	...	...	...	...	...	...	...
Janch ...	Ditto ...	...	...	...	1,623,334	...	...	...	...	...	...	...	...
Statistics ...	Square miles ...	...	...	...	3,820	...	...	...	...	...	...	...	...
16" maps ...	Ditto ...	...	...	...	3,820	...	...	...	...	...	...	...	...
Topographical maps ...	Ditto ...	...	...	...	3,820	...	...	...	...	...	...	...	...
Final records ...	Interest ...	...	...	...	3,541	20,300	...	...	2,18,114	10,998	3	...	95
Computation and recovery	Square miles ...	1,020	1,111	3,820	16,00,495	...	...	...	...	2,43,299	69	...	...
Final publication	Ditto ...	...	1,295	...	3,489	28,560	31,744	29	1,03,338	76,038	24	28	29
Case-work—	...	...	...	...	...	...	...	...	...	...	...	...	...
Section 105 ...	Ditto ...	...	1,365	...	...	...	...	...	...	...	...	...	...
" 106 ...	Tenancies ...	...	40,730	75,724	65,115	...	...	...	...	...	...	...	...
" 108A ...	Square miles ...	...	1,365	...	2,162	28,220	37,777	28	68,147	57,649	27	17	16
" 40 ...	Cases ...	...	2,826	4,840	3,773	...	...	...	...	...	...	...	...
Jamabandi ...	Square miles ...	...	1,365	...	2,162	...	...	...	...	...	...	...	...
Diara ...	Cases ...	...	167	683	631	...	...	...	...	...	...	...	...
Operation under sections 112 ...	Square miles ...	...	...	...	3,489	...	...	...	...	...	...	...	...
Municipalities ...	Ditto ...	...	...	...	236	...	...	...	...	...	...	...	...
Supervision ...	Ditto ...	...	...	...	...	...	...	...	...	...	...	...	...
Supplies, services and contingencies—	...	...	...	...	...	...	...	...	...	...	...	...	...
(1) Ordinary ...	...	...	...	...	...	25,240	19,914	...	4,38,654	3,92,148	...	...	...
(2) Press ...	...	...	...	...	...	2,700	23,610	...	42,764	1,21,919	...	...	...
Director of Land Records' control	...	...	...	...	...	...	3,508	...	...	87,165	...	...	...
Total	...	...	...	...	...	1,63,307	2,36,093	...	28,13,905	29,26,082	...	...	...
Special work	4,396	...	22,000	43,749
GRAND TOTAL	1,63,307	2,40,489	...	28,35,905	29,69,811

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APPENDIX II—contd.

Progress and cost in district operations during the year ending 30th September 1919.

Districts Tippera and Noakhali—commenced September 1914.

Estimated area, 3,200 square miles.

4 Blocks.

BRANCH OF WORK.	Unit of report.	PROGRESS.				COST (INCLUDING BOOK DEBIT AND INDIRECT CHARGES).							
		For year under report.		Up to date.		For year under report.			Up to date.			Cost rate to which sanctioned estimate for whole operation works out.	Standard cost rate for 2-block, 3-block district. (as the case may be).
		Programme according to sanctioned programme for whole operation.	Performance.	Programme according to sanctioned programme for whole operation.	Performance.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Traverse by Settlement Officers	Square miles		6		34	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Cadastral survey	Ditto		4	3,200	2,995		144	24		842	25		
Khanapuri	Ditto		4	3,200	2,995		387	97	3,52,000	3,27,014	109	110	115
Initial recess	Plots		3,958				118	29	1,18,400	1,23,480	41	37	29
	Square miles		4	3,200	2,995		59	15	57,600	46,288	15	18	18
Bujharat	Ditto	875	23	3,200	3,014	32,250	995	43	2,73,200	2,71,544	90	86	94
	Plots		6,232										
	Interests		1,974										
Attestation	Square miles	875	183	3,200	3,014	24,750	13,508	74	2,11,200	1,49,251	50	66	66
	Interests		72,207										
Draft publication	Square miles		281		3,014								
	Ditto	730	711	3,013	3,014	19,710	17,301	24	81,351	55,833	19	27	27
Objections	Cases		16,193										
Final Office Work—													
Janch	Square miles	730	711	3,013	3,014	10,950	16,810	24	45,195	87,823	29	15	20
Statistics	Ditto	700	1,374	2,450	3,014	10,500	6,116	4	36,750	17,246	6	15	10
16" maps	Ditto	717	1,430	2,450	2,963	5,736	6,290	4	14,700	13,072	4	8	6
Topographical maps	Ditto	717	1,279	2,450	2,771	5,736	2,831	2	4,900	5,900	2	2	2
Final records	Ditto	717	1,235	2,450	3,014	38,718	80,092	65	1,32,300	1,76,095	58	54	54
	Interests		414,100										
Computation and recovery	Square miles	871	1,060	1,950	2,000	17,420	21,374	20	39,000	37,371	19	20	29
Final publication	Ditto	842	1,118	1,950	2,143								
Case work—													
Section 105	Ditto	876											
	Tenancies		13,059										
106	Square miles	875											
	Cases		313										
106 A	Square miles	876				14,016	22,523		22,000	22,794		16	16
	Cases		870										
40	Square miles	876											
	Cases												
Jamabandi	Square miles	52	48	318	254	2,600	7,167	149	15,900	22,343	88	50	
Dhara	Ditto				11					1,005			
Operations under section 112	Ditto												
Municipalities	Ditto												
Supervision	Ditto												
Supplies, services and contingencies						61,660	80,047		4,39,550	3,39,086			179
(1) Ordinary						24,323	80,784		2,69,791	4,07,440			97
(2) Press													
Director of Land Records' control						5,900	5,235		43,050	26,880			15
Total						2,68,533	3,11,783		19,08,653	21,33,008			
Special work							5,439			36,243			
GRAND TOTAL						2,68,533	3,17,222		19,08,653	21,69,251			

APPENDIX II—contd.

Progress and cost in district operations during the year ending 30th September 1919.

District Jessore—commenced 21st October 1918.

Estimated area, 2,900 square miles.

4 Blocks.

BRANCH OF WORK.	Unit of report.	PROGRESS.				COST (INCLUDING BOOK DEBIT AND INDIRECT CHARGES).							
		For year under Report.		Up to date.		For year under Report.			Up to date.			Cost rate to which sanctioned estimate for whole operation works out.	Standard cost rate for 2-block, 3-block district (as the case may be).
		Programme according to sanctioned programme for whole operation.	Performance.	Programme according to sanctioned programme for whole operation.	Performance.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Cadastral survey	Square miles	656	618	1,468	1,457	1,14,510	65,060	107	2,37,859	1,57,410	108	117	115 ⁰
	Ditto	656	629	1,468	1,457								
Khanapuri	Plots	984,000	1,165,672	1,978,000	24,92,032	42,681	49,412	79	82,379	1,13,079	78	40	39
Initial recess	Square miles	656	629	1,468	1,457	27,066	16,655	26	52,559	28,659	20	28	18
	Ditto	936	922	1,468	1,457								
Bujharat	Plots	1,402,949	1,638,041	2,396,940	2,645,461	88,808	86,378	94	1,75,791	1,47,706	101	86	94
	Interests	561,690	629,351	8,10,100	1,003,941								
Attestation	Square miles	812	828	812	828	62,748	1,07,821	130	62,748	1,07,821	130	61	66
	Interests	576,000	650,036	5,75,000	6,50,036								
Draft publication	Square miles	812	656	812	656								
	Ditto	812	500	812	500								
Objections	Cases	10,237	7,812	10,237	7,812	11,850	5,709	11	11,850	5,709	11	25	27
Final Office Work—													
Janah	Square miles	620	121	620	121	6,600	6,842	57	6,600	6,842	57	19	20
Statistics	Ditto	656	629	1,468	1,457		4,427	7		8,972	6		
16" maps	Ditto						174			174			
Topographical maps	Ditto												
Final records	Ditto		28		28								
	Interests		20,150		20,150		4,300	154		4,300	154	52	54
Computation and recovery	Square miles												
Final publication	Ditto												
Case Work—													
Section 106	Square miles												
	Tenancies												
Do 106	Square miles												
	Cases												
Do 108 A	Square miles												
	Cases												
Do 40	Square miles												
	Cases												
Jamabandi	Square miles												
Diara	Ditto												
Operations under section 112	Ditto												
Municipalities	Ditto												
Supervision													
Supplies, services and contingencies—						1,12,618	76,324		1,98,182	1,42,953			
(1) Ordinary						59,733	80,927		1,53,037	2,52,015		87	75
(2) Press						32,500	20,481		38,800	20,481		22	22
Director of Land Records' control						9,362	3,778		14,195	8,901		15	15
Total						5,68,466	5,31,128		10,35,000	10,05,027			
Special work													
GRAND TOTAL						5,68,466	5,31,128		10,35,000	10,05,027			

NOTE.—The programmed areas in columns 3 and 5 are those revised for 4 Block operations, but the estimated expenditure in columns 7 and 10 are given from the last sanctioned estimate which is awaiting revision.

APPENDIX II—contd.

Progress and cost in district operations during the year ending 30th September 1919.

District Bankura—commenced 31st October 1917 Estimated area, 3,238 square miles, 4 blocks—Including Asansole subdivision of the Burdwan District.

BRANCH OF WORK.	Unit of report.	PROGRESS.				COST (INCLUDING BOOK DEBIT AND INDIRECT CHARGES).						Cost rate to which sanctioned estimate for whole operation works out.	Standard cost rate for 2-block, 3-block district, etc. (as the case may be).
		For year under report.		Up to date.		For year under report.			Up to date.				
		Programme according to sanctioned programme for whole operation.	Performance.	Programme according to sanctioned programme for whole operation.	Performance.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.	Estimated expenditure according to sanctioned estimate for whole operation.	Actual expenditure.	Actual cost rate.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Cadastral survey	Square miles	797	800	1,765	1,771	90,805	1,02,232	128	1,94,305	1,88,652	107	114	115
	Ditto	797	800	1,765	1,771								
Khanapuri	Plots	797,000	1,047,647	1,765,000	2,074,045	27,098	33,166	41	64,798	62,298	35	39	39
Initial recess	Square miles	797	800	1,765	1,771	13,549	20,500	22	30,949	34,037	19	18	18
	Ditto	797	800	1,765	1,771								
Bujharat	Plots	797,000	1,047,647	1,765,000	2,074,045	65,354	85,031	106	1,44,354	1,37,818	89	92	95
	Interests	199,250	220,264	441,250	346,264								
Attestation	Square miles	968	971	968	971	58,080	31,948	33	58,080	31,948	33	62	66
	Interests	242,000	150,627	242,000	150,627								
Draft publication	Square miles	968	971	968	971								
	Ditto	968	971	968	971	24,200	6,274	7	24,200	6,274	7	25	27
Objections	Cases	5,512	5,512	5,512	5,512								
Final office work—													
Janch	Square miles												
	Ditto	968	418	968	418	19,360	10,638	25	10,330	10,638	25	20	20
Statistics	Ditto												
16" maps	Ditto												
Topographical maps	Ditto												
Final record	Interests												
Computation and recovery	Square miles												
Final publication	Ditto												
Case work—													
Section 105	Ditto												
	Tenancies												
" 106	Square miles												
	Cases												
" 106A	Square miles												
	Cases												
" 40	Square miles												
	Cases												
Jambandi	Square miles												
Dara	Ditto												
Operations under section 112	Ditto												
Municipalities	Ditto												
Supervision													
Supplies, services and contingencies—													
(1) Ordinary						1,75,599	1,12,385		3,73,274	1,81,263			
(2) Press							2,373			2,373			
Director of Land Records' control						4,616	4,616		6,652	6,652			
Total													
Special work													
GRAND TOTAL						4,78,661	4,76,706		9,32,574	7,86,402			

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APPENDIX III.

Return of disputes and inspections during the year ending 30th September 1919.

DISTRICT.	Area in square miles cadastrally surveyed during the season.	PERSONAL PARTIAL IN LINEAR MILES.			Independent partial by linear miles.	Total number of plots khana-puried.	NUMBER OF PLOTS TESTED.			Number of boundary disputes decided.	NUMBER OF INTERNAL DISPUTES DECIDED.	
		By Gazetted officers.	By Kanungos and Head Inspectors.	By Inspectors.			By Gazetted officers.	By Kanungos and Head Inspectors.	By Inspectors.		During Khanapuri and Bujharat.	During attestation.
1	2	3			4	5	6			7	8	

Major Operations.

Bankura ...	800	194	2,744	...	...	1,028,805	5,457	51,792	...	213	4,513	1,529
Jessore ...	629	87	2,177	...	...	1,165,672	63,673	1,165,672	...	218	6,792	6,520
Nadia ...	953	61	3,896	...	...	1,031,111	...	48,886	...	24	2,832	184
Tippera-Noakhali	4	...	12	...	...	3,958	...	498	...	20	7	901
Rajshahi ...	...	...	...	...	...	...	...	...	...	6	...	...

Minor Operations.

Hooghly ...	...	...	...	...	...	...	...	...	...	...	10	200
Howrah ...	0'15	0'15	...	...	0'15	400	50	...	...	...	10	244
24-Parganas ...	...	...	...	...	...	...	...	...	...	...	7	7
Faaidpur ...	3	1'50	10'50	...	...	3,000	105	375	...	...	52	...

APPENDIX IV.

Progress in revision of Land Revenue during the year ending 30th September 1919.

DISTRICT.	Number of estates under revision.	Total area in acres.	Area in which rent-roll has been draft-published.		Objections under section 104E.		Area in which rent-roll confirmed under section 104E.	EFFECT OF THE RENTAL OF RAIYATS.										Area in which record-of-rights finally published.	Number of estates in which revision of land revenue completed.	Financial result.		Percentage of increase of rent.	Percentage of increase of revenue.
			In the year under report.	Up to the end of the year under report.	Pending for decision.	Decided.		Old rent.	New rent.	Amount of increase due to—					Amount of decrease due to—		Old revenue.			New revenue.			
										Increase in size.	Extension of cultivation.	Increased fertility of soil.	Rise in prices.	Neighbouring rates.	Decrease in area.	Deterioration of the soil.							
			1	2	3	4		5	6	7	8	9	10	11	12	13	14			15	16			17	18	19	20	21	22	23
Howrah	1	...	520	520	127	...	...	Rs. 3,032	Rs. 4,528	...	Rs. 757	Rs. 269	...	Rs. 470	...	...	...	...	Rs. ...	Rs. ...	35.70	...
Midnapore	61	26,592	268	26,992	...	...	25,520	63,435	79,531	2	4,029	...	10,848	1,207	...	...	26,213	27	42,285	53,343	25.36	26.15
24-Parganas	2	2,190	...	...	...	...	714	2,602	4,065	530	...	893	...	...	...	...	714	1	3,685	4,065	53.45	53.45
Mymensingh (minor operation).	3	6,721	2	6,721	...	...	6,719	9,059	10,852	...	...	...	1,763	...	...	...	6,719	1	6,362	7,597	20	20
Faridpur	6	10,986	...	...	...	...	9,526	13,820	19,523	937	...	4,766	...	...	...	...	9,526	4	13,820	19,320	131.24	139.79
Rajshahi (including diara of Pabna, Nadia and Murshidabad).	57	54,204	22,690	22,939	22	38	3,683	6,224	7,635	34	208	...	585	584	...	...	447	5	5,161	6,231	22.86	+20.07
Tippera-Noakhali ...	78	44	44	44	NIL	1,864	38	51,459	70,972	1,221	6,156	...	11,235		...	...	...	67	45,814	60,569	+38	+32

X

APPENDIX V.

Return of Rent settlement work in areas not under revision of Land Revenue during the year ending 30th September 1919.

DISTRICT.	COMMUTATION UNDER SECTION 40.			PROCEEDINGS UNDER SECTION 106(c) (WEST BENGAL DISTRICTS ONLY).				Class of tenants.	Number of tenants for whom a fair rent has been determined.	Former rent.	New rent.	Difference per cent. + or -.	PROCEEDINGS UNDER SECTION 105.						
	Number of cases dealt with.	Commu-tation allowed.	Commu-tation refused.	Num-ber of tenants.	Rent according to land-lord.	Rent legally payable.	Rent settled by compromise.						Analysis of variation in the case of raiyats.						
													Amount of increase due to—					Amount of decrease due to—	
													Increase in area, section 52(a).	Prevailing rates, section 30(a).	Rise in prices, section 30(b).	Landlord's improve-ment, section 30(c).	Fluvial action, section 30(d).	Decrease in area, section 52(b).	Permanent deterioration of soil, section 38(1) (a).
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
					Rs.	Rs.	Rs.			Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Hooghly								Tenure-holder	24		108			108					
								Raiyats	328	2,123	2,957	+39	92	99	643				
Howrah								Ditto	110	1,121	1,326	+19'50	50		155				
								Under-raiyats	117		226								
Midnapore	1,911	545	1,366					Raiyats	37,142	3,06,359	3,27,596	+9'25	6,306	403	24,694	26		191	
								Tenure-holders	867	15,357	17,770	+13'68							
Bankura	76	60	10	10	139		139												
24-Farganas								Tenure-holders	146	2,322	3,091	+33'1			769				
								Raiyats	51	103	254	+146'6			151				
Mymensingh								Ditto	17,250	1,08,179	1,31,356	21	13,035		10,142				
Tippera-Noakball								Tenure-holders	2,534	66,841	83,956	+26							
								Raiyats	6,125	64,432	84,137	+30	11,217		8,985			497	
								Under-raiyats	4	102	94	-18							
Rajshahi (diara of Pabna, Nadia and Murshidabad).								Tenure-holders	913	12,212	16,393	+34'24							
								Raiyats	26,072	2,46,864	2,92,837	+18'62	9,560	885	35,548			20	
Dinajpur								Ditto	379	1,087	1,445	+32'93			358				
Maldas (Mathurapur Estate)								Ditto	175	2,558	2,819	+10'30			261				

APPENDIX VI.

Results of appeals during the year ending 30th September 1919.

Name of estate or tract under settlement.	Nature of case.	Pending from previous year.	Instituted during the year.	Disposed of during the year.	Balance pending.	Upheld.	Modified.	Reversed.	Cases returned for re-trial.
1	2	3	4	5	6	7	8	9	10
Hooghly	Section 105 ...	35	5	35	5	14	...	21	...
Howrah (minor operations) ...	Do. ...	6	1	5	2	4	...	...	1
Midnapore	Commutation appeal.	29	279	297	11	96	187	1	17
	Section 104 G ...	1,502	130	1,630	...	1,291	339	...	...
	Appeal of sec. 105	8,588	7,246	2,685	13,149	765	519	96	1,305
Bankura	Ditto 106	25	50	32	43	27	3	1	1
	Boundary disputes	18	5	23	...	22	1	...	...
	Commutation appeal.	...	31	2	29	1	...	1	...
24 Parganas	Section 105 ...	9	2	3	8	...	...	1	2
	Do 106 ...	2	2	3	1	1	...	2	...
Jessore	Boundary disputes	6	53	39	20	23	15	...	1
Mymensingh	Section 105 ...	189	97	167	119	69	10	58	30
	Do. 106 ...	154	41	94	101	48	12	32	2
Tippera-Noakhali ...	Boundary disputes	...	7	7	...	7	...	...	...
	Section 104 G ...	81	296	377	...	337	40	...	...
	Boundary disputes	26	13	39	...	18	7	14	...
Rajshahi	Section 105 ...	92	964	114	942	114	...	...	...
	Do. 106 ...	17	175	...	192	...	...	...	...
Dinajpur	Section 105 ...	...	2	...	2	...	...	...	...
Malda (Mathurapur Estate)	Section 105 ...	...	1,337	...	1,337	...	...	...	...
	Do. 106 ...	...	25	...	25	...	...	...	...

APPENDIX VII.

Nature and number of holdings for which final statistics have been completed during the year ending 30th September 1919.

District.	Name of each estate, tract, etc., under settlement.	Area for which final statistics were completed during the year.	NUMBER OF KHATIAN RECORDED IN THE NAME OF, OR FOR—														Total.
			Proprietor.		Rent-free tenure-holders.		Tenures holders (other than rent-free).	Rajyats at fixed rates or fixed rents.	Rent-free rajyats.		Settled and occupancy rajyats.	Non-occupancy rajyats.	Occupants (of non-agricultural holding).	Under-rajyats.	Unoccupied lands (including area outside the record).	Lands occupied for public purposes.	
			As private lands.	Not as private lands.	Service.	Others.			Service.	Others.							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Hooghly ...	Private estates	Sq. miles. 3.25	...	10	39	588	153	206	12	250	1,575	40	6	242	...	11	3,132
Howrah ...	Ditto ...	4.06	...	12	...	74	35	121	19	115	1,142	15	...	129	...	3	1,665
Midnapore ...	District operations	...	...	479	...	145	928	141	98	132	20,483	214	128	1,325	...	88	24,161
24-Parganas ...	Private estates	1.11	...	1	...	...	...	...	...	...	109	17	...	8	...	1	136
Tippera-Neakhal.	District operations.	1,374	...	33,462	...	9,673	112,128	16,443	3,833	442	492,309	4,536	7,629	57,908	252	1,316	739,931
Rajshahi ...	Ditto ...	482	...	...	...	1,992	2,205	12,623	1,029	48	203,631	28,483	18,418	148,692	181	...	417,303

APPENDIX VIII.

Progress made in recovery of costs during the year ending 30th September 1919.

DIVISION.	DISTRICT.	ESTATE OR TRACT UNDER SETTLEMENT.	DEMAND (OUTSTANDING plus CURRENT).			COLLECTIONS.							BALANCE.		
			Landlord's share.	Occupier's share.	Total.	Landlord's share.			Occupier's share.			Grand total collected.	Landlord's share.	Occupier's share.	Total.
						Voluntary.	By certificate.	Total.	Voluntary.	By Certificate.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

A.—Imperial Operations.

			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Burdwan	Midnapore	District operations	3,61,659	63,867	4,25,526	1,89,073	1,23,644	2,62,717	41,041	3,870	44,911	3,07,628	99,640	510	1,00,150*	
Dacca	Mymensingh	Ditto	1,66,974	35,859	2,02,833	1,19,635	47,339	1,66,974	34,596	Nil	34,596	2,01,570	...	...	...
Chittagong	Tippura-Nonkhali	Ditto	3,76,967	2,90,824	6,67,791	2,77,604	50,232	3,27,836	2,32,679	4,300	2,36,978	5,64,814	49,132	53,846	1,02,977	
Rajshahi	Rajshahi	Ditto	6,18,654	2,81,927	9,00,581	3,79,116	69,858	4,48,974	2,49,862	209	2,50,071	6,99,045	1,69,680	31,856	2,01,536	

B.—Minor Operations.

Burdwan	Hooghly	Petty Estates	837	1,417	2,254	837	...	837	1,416	...	1,416	2,253	...	1	1	
Presidency	24-Parganas	Ditto	3,832	...	3,832	2,313	80	2,393	...	...	...	2,393	1,440	...	1,440	

* Excluding Rs. 18,863 already remitted and including Rs. 615 collected in excess.

APPENDIX IX.

General progress and cost in Survey and Settlement work done during the year ending 30th September 1919.

BRANCH OF WORK.	Unit of report.	HOOGHLY.			HOWRAH.			24-PARGANAS.			MYMENSINGH.		
		Programme of the year under report.	Work done during the year under report.	Cost.	Programme of the year under report.	Work done during the year under report.	Cost.	Programme of the year under report.	Work done during the year under report.	Cost.	Programme of the year under report.	Work done during the year under report.	Cost.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Traverse Survey (under Settlement Officer) ...	Square miles ...	...	...	Rs. ...	0'16	0'16	Rs. ...	...	...	Rs. ...	...	...	Rs. ...
Cadastral Survey ...	Ditto ...	...	...	...	0'16	0'16	...	...	...	...	...	...	...
Khanapuri ...	Ditto ...	...	...	...	0'16	0'16	298	...	...	...	...	...	...
Preliminary office work ...	Plots ...	...	...	...	400	400	...	...	...	...	...	...	...
	Square miles ...	...	...	...	0'16	0'16	...	2'30	2'30	...	...	...	...
Biharat ...	Ditto ...	3'25	3'25	...	0'16	0'16	...	2'30	2'30	...	...	...	...
	Plots ...	7,477	7,474	694	4,400	4,400	418	1,165	1,165	...	...	...	...
	Interests ...	2,261	2,261	...	1,789	1,780	...	...	...	...	...	...	...
Attestation ...	Square miles ...	3'25	3'25	330	3'28	3'28	...	230,290	230,290	...	...	...	...
	Interests ...	2,075	2,075	...	2,080	2,080	80	...	...	...	...	...	...
Draft publication ...	Square miles ...	3'25	3'25	...	3'28	3'28	...	290	290	...	...	...	...
Objection under section 103A ...	Square miles ...	3'25	3'25	283	4'22	4'06	...	2'30	2'30	...	...	...	...
	Cases ...	557	557	...	750	710	60	2'30	2'38	...	...	...	...
Final office work—													
Janch ...	Square miles ...	3'25	3'25	...	4'22	4'06	...	2'30	...	2,114	...	...	...
Statistics ...	Ditto ...	3'25	3'25	318	4'22	4'06	50	8'22	...	...	...	...	...
Preparation of 16" maps ...	Ditto ...	3'25	3'25	...	4'22	4'06	36	...	...	...	...	...	...
Topographical maps ...	Ditto ...	...	...	...	...	...	...	NU	...	...	...	...	...
Preparation of final records ...	Ditto ...	3'25	3'25	...	...	...	...	3'41	1'11	...	10'503	10'500	...
	Interests ...	...	...	245	...	...	...	426	136	...	...	...	374
Final publication ...	Square miles ...	5'25	3'50	80	4'22	...	...	3'41	1'11	...	10'503	10'500	...
Recovery of costs ...	Ditto ...	2	2	131	...	...	...	...	...	...	...	...	...
Case work under Section 108A ...	Cases ...	...	...	...	8	8	...	...	...	...	...	...	...
Ditto ditto 105 ...	Do. ...	378	352	...	...	...	...	...	...	...	...	...	...
Ditto ditto 108 ...	Do. ...	65	37	...	293	227	586	350	350	...	...	...	...
Ditto ditto 112 ...	Do. ...	...	...	536	109	48	...	81	81	...	...	...	...
Ditto ditto 104E(1) ...	Do. ...	...	...	...	...	...	...	...	...	...	...	...	...
Ditto ditto 108(c) ...	Do. ...	...	...	...	...	...	...	...	...	...	...	...	...
Revision in temporarily-settled estates—													
(a) Draft publication under section 103A.	Square miles	0'94	0'94	509	2'30	2'30	...	A. res. 2'01	A. res. 2'01	...
(b) Final publication ...	Ditto	1'11	1'11
Total cost	2,627	2,087	2,114	374

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APPENDIX IX—concl'd.

General progress and cost in survey and Settlement work done during the year ending 30th September 1919.

BRANCH OF WORK.	Unit of reports.	FARIDPUR.			DINAJPUR.			MALDA (MATHURAPUR ESTATE).			Programme of the year under report.	Work done during the year under report.	Cost.
		Programme of the year under report.	Work done during the year under report.	Cost.	Programme of the year under report.	Work done during the year under report.	Cost.	Programme of the year under report.	Work done during the year under report.	Cost.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
				Rs.			Rs.			Rs.			Rs.
Traverse Survey (under Settlement Officer) ...	Square miles	3	3	311*	...	...	...	...	...	...	...	...	...
Cadastral Survey	Ditto	3	3	152	...	...	...	...	...	...	...	...	...
Khanapori	{ Ditto	3	3	60	...	...	...	...	...	...	...	...	...
	{ Plots	3,000	3,000	...	...	...	...	...	...	...	...	...	...
Preliminary office work	Square miles	3	3	20	...	...	...	...	...	...	...	...	...
Bujharat	{ Ditto	3	3	102	...	...	...	...	...	...	...	...	...
	{ Plots	3,000	3,000	...	...	...	...	...	...	...	...	...	...
	{ Interests	1,200	1,200	...	...	...	...	...	...	...	...	...	...
Attestation	{ Square miles	3	3	20	...	...	...	...	...	...	...	...	...
	{ Interests	1,200	1,200	...	...	...	...	...	...	...	...	...	...
Draft publication	Square miles	3	3	...	1'63	1'68	...	...	...	...	...	...	...
Objections under section 103A	{ Ditto	3	...	...	1'63	1'63	...	...	...	...	...	...	...
	{ Cases ... ..	...	...	...	59	59	79	...	...	...	...	...	...
Final office work—													
Janch	Square miles	3	3	25	1'63	1'62	...	...	...	...	...	...	...
Statistics	Ditto	3	3	5	1'63	1'62	25	...	...	...	...	...	...
Preparation of 16" maps	Ditto	7	4	50	1'63	1'62	15	...	...	...	...	...	...
Topographical maps	Ditto ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Preparation of final records	{ Ditto	17	14	500	1'63	1'62	52	...	...	...	...	...	...
	{ Interests	14,000	12,800	...	702	702	...	...	...	...	...	...	...
Final publication	Square miles	17	14	150	1'63	1'62	30	...	...	...	...	...	...
Recovery of costs	Ditto ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Cases under section 108A	Cases ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Ditto ditto 105	Do. ... ..	...	...	...	379	379	114	...	1,375	...	...	...	...
Ditto ditto 106	Do. ... ..	...	...	...	...	...	...	...	31	5,882	...	...	...
Ditto ditto 112	Do. ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Ditto ditto 1(4)(1)	Do. ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Ditto ditto 108(c)	Do. ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Revision in temporarily-settled estates—													
(a) Draft publication under section 103A ...	Square miles ... ..	...	...	...	...	...	...	...	...	...	...	...	...
(b) Final publication	Ditto ... ..	...	...	...	...	...	...	...	...	...	...	...	...
Total cost ... ..		...	...	1,395	...	...	315	...	...	5,882	...	...	...

* Including Rs. 170 for boundary pillars.

APPENDIX X.

Result of Inspection of Survey Marks during the year ending 31st March 1919.

DIVISION AND DISTRICT.	Total number of estates surveyed under the Survey Act or Bengal Tenancy Act.	Total number of estates in which permanent survey marks were erected.	Number of marks erected in the estates mentioned in column 3.	Number of marks inspected during the year under report.	RESULT OF INSPECTION OF MARKS SHOWN IN COLUMN 5.			Number of damaged or missing marks restored.	Cost of restoration and how met.	Result of prosecution, if any.
					Number in fair order.	Number damaged.	Number missing.			
1	2	3	4	5	6	7	8	9	10	11
GOVERNMENT ESTATES AND TEMPORARILY-SETTLED ESTATES.										
BURDWAN	Burdwan ...	...	18	55	357	965	90	572	...	.....
	Birbhum ...	3	3	14	14	14	...	...	...	.....
	Bankura ...	7	7	30	30	29	1	...	...	Rupees 8 cost realised from party in fault.
	Midnapore ...	...	61	2,743	2,488	2,315	104	69	1	.....
	Hooghly ...	72	35	794	728	728	...	...	...	.....
	Howrah ...	14	14	240	240	237	1	2	...	.....
	24-Parganas ...	46	38	1,970	1,569	1,108	41	420	19	.....
PRESIDENCY	Nadia ...	49	32	1,076	1,048	1,018	12	18	4	.....
	Murshidabad ...	71	62	968	968	880	8	80	80	Rupees 47-8.
	Jessore ...	3	5	37	28	26	2	...	...	Rupees 19-14 out of the grant sanctioned by Board and Rs. 27-10 from Commissioner's grant.
	Khulna ...	26	26	317	172	150	3	19	...	.....
	Mymensingh ...	41	2	458	238	188	35	15	...	.....
DACCA	Bakerganj ...	224	118	694	227	184	5	38	1	Rupee 1-8 realised from the man on whose plot it was embedded.
	Chittagong ...	5	5	2,659	819	725	28	166	1	Replaced by an old mark without cost.
	Tipperra ...	142	142	377	126	94	6	126	...	.....
CHITTAGONG	Noakhali ...	...	...	...	180	180	...	...	...	.....
	Bogra ...	2	2	478	75	70	5	...	5	Rupees 7 met from contingencies.
	Pabna ...	5	5	22	22	12	10	...	...	.....
RAJSHAHI	Malda ...	30	28	243	243	224	...	9	6	.....
	Darjeeling ...	4	3	193	193	193	...	...	...	.....
	Jalpaiguri ...	5	5	1,967	623	614	...	9	1	Rupees 11-0-6.
	Total ...	749	607	15,785	10,388	9,263	281	844	118	

* All these relate to Contal Subdivision; the replacement is expected to be finished by June 1920.
 † 28 marks washed away and the remaining 38 are missing.
 ‡ Washed away by the river.

APPENDIX X—concl'd.

DIVISION AND DISTRICT.	Total number of estates surveyed under the Survey Act or Bengal Tenancy Act.	Total number of estates in which permanent boundary marks were erected.	Number of marks erected in estates mentioned in column 3.	Number of marks inspected during the year under report.	RESULTS OF INSPECTION OF MARKS SHOWN IN COLUMN 5.			Number of damaged or missing marks restored.	Cost of restoration and how met.	Result of prosecution, if any.
					Number in fair order.	Number damaged.	Number missing.			
1	2	3	4	5	6	7	8	9	10	11
WARDS ESTATES.										
BURDWAN	Midnapore ...	4	1,947	1,705	1,393	38	574	312	Met from the Director of Land Records' grant of Rs. 122.	
	Hooghly ...	2	35	25	25	...	...	...	...
	Bankura ...	25	433	433	433	...	...	...	...
PRESIDENCY	Murshidabad ...	1	22	22	22	...	...	...	...
	Jessore ...	1	49	46	31	...	15	3	Rupees 10-12 from khasmahal contingencies.	
DACCA	Bakarganj ...	55	1,096	1,096	1,057	5	34(a)	...	...
CHITTAGONG	Tippera ...	6	3,054	346	300	26	20	...	...
RAJSHAHI	Linaipur ...	2	683	154	153	...	1	1	Replaced by the estate amin.	
	Malda ...	2	125	80	80	...	...	...	...
	Total ...	94	7,444	3,907	3,494	69	344	316		
ZAMINDARI ESTATES.										
BURDWAN	Burdwan ...	1	26	26	23	2	1	...	Restored by the zamindar.	
	Midnapore ...	3	397	360	360	...	...	...	...
	Hooghly ...	72	369	315	315	...	...	...	...
	Bankura ...	71	409	409	399	1	9	...	...
	Howrah ...	6	33	33	33	...	...	...	...
	Birbhum ...	69	720	720	717	1	2	3	Rupees 4-8 met from Director of Land Records' grant.	
PRESIDENCY	24-Parganas ...	48	206	...	...	...	...	...	...
	Murshidabad ...	19	1,719	1,321	1,101	20	200	...	...
	Nadia ...	5	87	87	87	...	...	...	...
	Jessore ...	4	550	...	...	...	...	...	...
	Khulna ...	7	378	95	95	...	...	...	...
DACCA	Bakarganj ...	3,026	3,026	4,507	3,681	3,268	...	413 †	...	
	Noakhali ...	...	...	2	...	2	...	...	...
CHITTAGONG	Tippera ...	525	525	412	...	...	...	...	...
	Jalpaiguri ...	2	316	252	246	3	3	...	...
RAJSHAHI	Pabna ...	16	224	224	182	40	2	...	...
	Malda ...	4	494	401	401	...	...	...	...
	Rangpur ...	19	109	6	6	...	...	...	...
	Bogra* ...	Diara pillars ...	48	...	...	...	...	...	...
	Total ...	3,886	3,871	11,004	7,932	7,233	69	630	3	
	GRAND TOTAL ...	4,729	4,522	34,233	22,227	19,990	419	1,818	437	

* No inspection was made.
 † 5 pillars reported to be washed away, steps are being taken for restoration of other pillars.
 (a) 29 washed away and 5 were removed before being washed away.

APPENDIX XI.

Statement showing maps in stock received and sold during the year ending 31st March 1919.

PARTICULARS.	Number of copies	Value.	Number of maps of which there are less than four copies in stock.
1	2	3	4
Rs. A.			
District Maps—			
Balance on the 1st April 1918 ...	597	...	...
Additions during the year ...	31	...	...
Total ...	628	...	...
Issue on Public Service ...	57	...	...
Issue by sale ...	39	32 0	...
Total ...	96	...	...
Balance on the 31st March 1919 ...	532	...	...
Thana Maps—			
Balance on the 1st April 1918 ...	32,217	...	...
Additions during the year ...	260,549	...	...
Total ...	292,766	...	...
Issue on Public Service ...	5,543	...	...
Issue by sale ...	2,374	703 4	...
Total ...	7,917	...	...
Balance on the 31st March 1919 ...	*282,025	...	...
Village maps—			
Balance on the 1st April 1918 ...	875,624	...	...
Additions during the year ...	1,106,866	...	...
Total ...	1,982,490	...	...
Issue on Public Service ...	7,792	...	...
Issue by sale ...	14,251	3,678 10	...
Total ...	22,043	...	...
Balance on the 31st March 1919 ...	1,960,447	...	...

* Excludes 2,824 copies of old prints.

APPENDIX XII.

Return of printed Settlement Records in Stock, received and sold during the year ending 31st March 1919.

DISTRICT.	Balance on 1st April 1918.	Additions during the year.	Total.	Issues on public service.	Issues by sale.	Total.	Balance on 31st March 1919.	RECEIPTS	
								By cash.	By Court-fees
	2	3	4	5	6	7	8	9	10

Khatians.

								Rs. A. P.	Rs. A. P.
Mymensingh ... ..	...	1,684,675	1,684,675	38,932	2,080	41,012	1,643,663	260 0 0	...
Bakarganj ... ..	...	...	...	Return blank.		...	...	...	...
Rajshahi	1,061,835	3,011,794	4,073,629	734	382,937	383,671	3,689,958	13,615 4 0	66 15 0
Dacca	6,492,632	...	6,492,632	153	114,386	114,539	6,378,093	...	13,927 3 0
Faridpur ... ..	...	...	...	Figures will not be ready before January 1920.		...	...	...	...
Midnapore	1,330,614	6,157,874	7,488,488	11,346	67,276 +70,988*	149,610	7,409,866*	8,409 8 0 4,236 0 0	...
Settlement Officer, Tippera- Noakhali.	402,252	1,484,165	1,886,417	9,426 (a) 766,532	322,259	1,098,217	788,200	17,274 11 1	...
Deputy Collector, Jalpaiguri.	...	...	...	Not reported (vide statement 8).		...	...	...	...
Collector of Chittagong ...	...	1,298	1,298	...	...	...	1,298	...	...
Collector of Noakhali ...	...	1,071,839	1,071,839	...	1,274	1,274	1,070,565	107 14 4	...
Assistant Settlement Officer, Mymensingh.	4,242,592	20,000	4,262,592	...	442,712	442,712	3,819,880	5,775 9 6	8,731 8 0
Collector, Tippera	339,987	...	339,987	1,721	5,341	7,062	339,925	667 10 0	...
Total ...	13,869,912	13,431,645	27,301,557	828,844	1,409,253	2,238,097	25,062,460	50,346 8 11	22,725 10 0

Plot Index.

								Rs. A. P.	Rs. A. P.
Bakarganj ... ..	...	...	...	Return Blank.		...	...	...	...
Rajshahi	22,245	20,855	43,100	13	3,498	3,511	39,589	874 4 0	0 4 0
Dacca	27,412	...	27,412	...	417	417	26,995	...	104 4 0
Faridpur ... ..	...	...	...	Complete return is not ready.		...	...	...	...
Midnapore	11,019	12,706	23,725	1	59 41*	101	23,665	33 4 0 10 4 0*	...
Collector of Chittagong ...	...	16	16	...	...	...	16	...	...
Settlement Officer, Tippera- Noakhali.	3,053	5,940	11,993	172 6,357 (a)	2,356	8,885	3,108	315 8 0	...
Collector, Noakhali ... ..	...	8,394	8,394	...	...	...	8,394	...	...
Assistant Settlement Officer, Mymensingh.	19,069	1,390	20,459	...	2,665	2,665	18,294	...	666 4 0
Jalpaiguri ... ..	...	...	...	Not reported.		...	...	...	...
Total ...	62,798	52,501	135,599	6,543	9,036	15,579	120,020	1,233 2 0	770 12 0

*Sold by Settlement Officer before delivery of records during the year to Collector.

a) Made over to Noakhali and Chittagong Collectors for sale.

GOVERNMENT OF BENGAL.

REVENUE DEPARTMENT.

Land Revenue.

CALCUTTA, THE 13TH FEBRUARY, 1920.

RESOLUTION—No. 1719L.R.

READ—

The Survey and Settlement Reports for the year ending the 30th September, 1919.

DURING the year under review no new district was brought under survey, but settlement operations were commenced in the district of Nadia. Both the Survey and Settlement Departments continued to work with three parties in accordance with the curtailed programme temporarily adopted as a measure of economy during the war. Steps have, however, been already taken to revert to the full programme with four survey parties in the current year and consequently four settlement parties in the ensuing year.

2. The main programme of the Survey Department lay in the traverse survey of an area of 2,611 square miles in the districts of Bankura, Nadia and Jessore including the riverain areas of the district of Nadia and of the neighbouring portions of Hooghly, Burdwan, Murshidabad and the 24-Parganas down to the Jubilee Bridge at Naihati. One survey party dealt with an area of 777 square miles falling in thanas Gangajalghati, Bankura and Onda in the district of Bankura. Another survey party completed the traverse of 1,185 square miles in Nadia and the diara areas on the river Bhagirathi mentioned above. The third survey party traversed an area of 649 square miles in thanas Maheshpur, Bongaon, Gaihatta and Sarsa in the district of Jessore.

3. Eight hundred and thirty-two thousand one hundred and twenty-six copies of maps were prepared during the year. Satisfactory progress was made in the production of large scale (4") jurisdiction maps in the districts of Noakhali, Tippera and Rajshahi, but the production of small scale jurisdiction maps generally requires acceleration. Progress was also made in the preparation of comparative maps in diara areas. The Survey Department had in hand a substantial programme of miscellaneous surveys and mapping comprising the survey of the Howrah Municipality and of scattered areas in various parts of the Presidency. A special demarcation of the Nadia rivers has been undertaken in connection with recent proposals for watching these rivers and their effect on the river Hooghly.

4. No district kanungoes were sent for training to the Government Survey School near Comilla; but three candidates for such posts received their training in the school. The number of students admitted into the school was 51 against 28 in the preceding year.

5. Major settlement operations were in progress in the districts of Midnapore, Mymensingh, Rajshahi, Tippera, Noakhali, Jessore, Bankura and Nadia. Two settlement parties were fully employed in the districts of Jessore and Bankura; one settlement party was divided between the joint operations in the districts of Tippera and Noakhali and the operations in Nadia; in the remaining districts only the staff necessary for the concluding stages of a

No. 1720L.R.

COPY, with copies of the two reports, forwarded to the Surveyor-General of India, for information.

No. 1721L.R.

COPY, with copy of the Survey Department's report, forwarded to the Municipal Department of this Government, for information, with special reference to paragraphs 17, 18 and 32 of the report.

No. 1722L.R.

COPY, with copies of the two reports, forwarded to the Appointment Department of this Government, for information, with special reference to paragraph 16 of the Resolution.

By order of the Governor in Council,

S. A. LATIF,

Under-Secy. to the Govt. of Bengal.

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The 13th February 1920.

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