Annual Report

of the

Department of Land Records in the Bombay Presidency Including Sind for the year 1916-1917

Government



INDEX TO THE ANNUAL REPORT OF THE DEPARTMENT OF LAND RECORDS IN THE BOMBAY PRESIDENCY, INCLUDING SIND, FOR THE YEAR 1916-17.

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• Camp Deur, 12th December 1917.

From

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Sir.

F. G. H. ANDERSON, Esq., M.A., I.C.S.,

Settlement Commissioner and Director of

Land Records, Poona;

THE CHIEF SECRETARY TO GOVERNMENT,

Revenue Department, Bombay.

I have the honour of submitting the Annual Report of the Department of Settlement and Land Records for the year ending 31st July 1917.

CHAPTER I.

PREFATORY.

1. The charge of the Department was held by me throughout the year.

2. In the Northern Division, Khan Bahadur P. R. Mehta held charge of the office of the Superintendent of Land Records up to 31st October 1916 from which date he went on furlough preparatory to retirement. For the rest of the year Mr. S. E. Reuben held charge. In the Central and Southern Divisions, Messrs. V. B. Mardhekar and A. R. Dalal were Superintendents of Land Records, respectively, throughout the year.

3. I toured in four districts of Northern Division, five of Central Division and all of Southern Division. My time was much taken up, in addition to my work as Inspector-General of Registration, in looking to the working of the several City Surveys in progress and measurement of sub-divisions, in suggesting improvements in the methods adopted and in directing personally the survey of the Tálukdári villages of the Thakor Saheb of Limbdi and the pôt hissa survey of the villages of the Mahád Táluka, Kolába. I inspected a large number of Táluka offices to test the working of the new forms of Revenue Accounts. In March, I visited Sind and inspected the City Survey work of Shikárpur Town, and discussed Survey and Land Records questions with the Superintendent of Land Records.

4. All the Superintendents of Land Records toured comprehensively in their Divisions. They watched the work of all their field parties and examined the preparation of Record of Rights, measurement of sub-divisions, City Surveys and other Land Records work in their Divisions, with the inspection of all the District Survey Offices. All the Superintendents helped my efforts to reform the methods of City Survey, measurement of sub-divisions, and survey of villages on the new Triangulation System, all of which have now reached a much improved standard. 'The activities of the Department were very extensive, and although the need of strengthening the supervising staff was frequently felt, yet, in view of the need for stringent economy, the Department exerted itself to carry out its programme without the aid of Deputy Superintendents of Land Records in the Northern and Central Divisions. One post of Survey Mámlatdár was transferred from the Karnátic to Central Division. This situation no doubt entailed extra work, but the staff rose to the occasion most laudably.

CHAPTER II.

LAND RECORDS ESTABLISHMENT.

Establishments under Divisional Superintendents.

5. The establishments under the Divisional Superintendents were the District Survey Offices, permanent field parties, and the establishments for

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City Surveys and measurement of sub-divisions. All were controlled by the Superintendents and supervised by District Inspectors, Survey Mámlatdárs and Head Surveyors.

Training of Junior Civilians.

6. Four Junior Civilians and two Deputy Collectors were trained by the Superintendents in Survey and Settlement matters. All were declared to be qualified. Two officers of the Nizam's Government (Messrs. Kutubuddin Hussein and D. B. Chinoy) were also trained in Survey and Settlement matters. Mr. Chinoy was under instructions for nearly six months, during which he toured with the Superintendent of Land Records, C. D., in four districts and acquired practical knowledge of field operations in pôt hissa and City Surveys and also of Revenue Survey and Settlement. The United Provinces sent Mr. Sayad Ahmad Hussein, Collector of Bhadoi, to study the principles of the Rayatwari System of our Presidency and its practical working by visiting villages in the Deccan. He took instructions from myself and the Collectors.

Training of District Inspectors and Circle Inspectors.

7. Classes were not held this year for this training. I have made arrangements for the training of Circle Inspectors during the coming fair season, the chief feature of which will be the training in Plane Table Survey and the use of Plane Table maps as cross staff "tippans". This training will be very useful to the Circle Inspectors in doing independent measurement work and in examining the work of the Talátis who are being similarly trained in selected talukas for the upkeep of Hissa Survey and other measurement work.

District Survey Offices.

8. The Central Record Office, Ahmedabad, was inspected by the Superintendent of Land Records, N. D., in July. The work of this office has increased owing to the measurement of sub-divisions and, as usual, help was taken from the pôt hissa establishment in the monsoon to cope with that work. 1,908 cases involving corrections in survey records were disposed of, leaving 429 cases in arrears. Last year the number disposed of was 2,194. The decline in output is due to four members of the staff being deputed as Special Measurer Circle Inspectors in the Broach District. 6,422 miscellaneous cases arising out of Plane Table Survey and correction of village maps were disposed of, leaving a balance of 383. In addition, the staff prepared Himáyat Patraks of 219 villages of Surat, Kaira, Broach and Ahmedabad, tested the recess work done by field party surveyors and corrected village maps for printing. Realisation of fees from extracts of Survey papers and sale of maps was Rs. 1,396 this year, while last year it was Rs. 929. The Head-Quarter Assistant, Mr. M. A. Desai, conducted the work of this office efficiently, although he had to work with a reduced staff.

The District Survey Office, Thána, was inspected by the Superintendent. in July. This office disposed of 313 cases of correction of survey records, leaving a balance of 42 cases. Miscellaneous cases disposed of were 2,538, leaving 124 cases outstanding at the close of the year. One hand from the Thána pôt hissa survey party was engaged in the correction of survey records arising out of pôt hissa survey. He disposed of 23 cases involving correction of survey papers of 184 villages, leaving 16 cases in arrears. He also disposed of 271 cases of correction of survey papers necessitated by partitions made under the decrees of the Civil Court and by the relaying of correct boundaries in survey numbers or pôt numbers arising out of boundary dispute cases, leaving 53 cases as arrears. Realisation of fees from extracts of survey papers and sale of maps was Rs. 441 this year as against Rs. 431 last year. The Tab System was introduced in this office at the close of the year. After, gaining experience of this system here, it will be introduced in the Ahmedabad Central Record Office and in the offices of the District Inspectors of Land Records of Gujarát. The Thána District Survey Office is under the supervision of an able District Inspector, Mr. M. P. Desai, who has tried to improve the quality of the work by watching the general routine of the office and by inspecting it twice within nine months he was in charge.

9. All the offices in the Central Division were inspected by the Superintendent, Land Records. The District Survey Offices of East and West Khándesh and Sátára were overworked as they had to supply information required by Assistant Settlement Officers for framing Revision Settlement proposals. The work of the District Survey Offices of Nagar, Násik and Sholápur was increased on account of the corrections in survey papers, owing to mistakes in the original survey found during the survey of sub-divisions. In East Khándesh the survey records of 384 Survey Numbers were to be corrected owing to acquisition of land for the Jámner-Páchora Railway. The acquisition of land for the Tata Electric Works and the measurement of building sites increased work in the Poona District Survey Office. In Násik and Sátára District Survey Offices, preparation of Kamjasti Patraks on account of remission of water assessment and separating the motasthal share of assessment from the patasthal assessment to be abolished is in progress. The Tab System has been introduced in all these offices. It has secured effective check on arrears, specially in respect of measurement cases with Circle Inspectors. All the offices have carried out their work satisfactorily.

10. In the Southern Division, the Superintendent, Land Records, inspected all the District Survey Offices. All the offices have turned out more work than in the previous year. In spite of this, the District Survey Offices of Belgaum, Dhárwár, Bijápur and Kánara show increased arrears. This is chiefly owing to the correction of survey records consequent upon pôt hissa survey. Kolába and Ratnágiri have cleared off most of the heavy arrears with which they began the year. In Dhárwár and Bijápur, the arrears at the close of the year were heavy. These offices have been given the help of field party surveyors and Measurer Circle Inspectors, to clear it off. The Tab System was introduced in Kolába, and is being introduced in Dhárwár. Next year it will be introduced in the other District Survey Offices of the Division.

District Inspectors.

11. Statement IV of Appendix A shows the work performed by these officers. With the general increase of work in the Department the duties of these officers have also become much heavier. From Statement IV it will appear that the District Inspectors in the Northern Division have taken adequate test in their districts. All are reported to have moved about actively and to have discharged their duties satisfactorily. In the Central and Southern Divisions, the work of all the District Inspectors has been reported to be satisfactory. In the Central Division, Messrs. Patwardhan, Vaishampayan, Hatwalne, Yardi and Dev are specially reported to be hard and diligent workers. In the Southern Division, Mr. Kalelkar, the Deputy Superintendent of Land Records, Mr. S. R. Kulkarni, the Survey Mámlatdár, Konkan, and Mr. Gilganchi, the District Inspector of Land Records, Belgaum, are reported to have worked very well.

Circle Inspectors.

12. Statement I of Appendix A shows the work performed by Circle Inspectors. The reports received from most of the Collectors show a marked improvement this year in this class of officers. In some districts they are adversely reported upon. The Collector of Násik writes :—" To the shortage of English-knowing men is due the unsatisfactory character of our Circle Inspectors. They are, perforce, mostly taken from the lower ranks and from men who have little intelligence, less activity, and no partiality for out-door work, and who are entirely devoid of hope of rising to the Upper Branch; their vacancies, when they go on leave, have to be filled by pitch-forking in some taláti. With every desire to make the best men we have serve their time as Circle Inspectors I find it impossible to do so without reducing the clerical staffs to impotency. Circle Inspectors in this district are, generally speaking, mere travelling kárkuns without a master at their elbow to see that they do their work properly; the work is, in consequence, perfunctorily done, and improvement seems beyond hope until our whole establishment system is revised."

Though I have small concern with the lower Branch of the Revenue. Department, still it touches me in the matter of Circle Inspectors. I must say that I feel very much with the Collector of Násik. The lower Revenue establishment is suffering from the division into upper and lower Branches. We wanted better men at the top, and we opened an entrance half way up to admit them, but by largely closing the passage from the lower to the upper Branch we produced the same effect as is produced in a pipe of flowing the outlet is blocked: the water, when inflow at the other end was very largely checked. In other words, it is very difficult to recruit School Final men at Rs. 20 when the possibility of rising to the upper Branch and ending their career as Mámlatdár or at least Mahálkari is cut off. However, this is a matter into which it is idle to enter now. I attribute most of the apathy and poor work of the Circle Inspector to want of prospects, and to the fact that the Department is only attractive to men who have no prospects. Since this report was written much of the desired reform has been conceded.

Another fairly general complaint about Circle Inspectors is that they are so frequently taken away for entirely extraneous work. It is again useless to go into details, but the District Inspectors must be stirred up to a more active resistence in this matter. Everybody must help in such things as Recruiting, War Loan, and so on, but departmental work cannot go on satisfactorily, unless there is some limitation upon extraneous avocation.

The Collector of Kolába states that many of the Circle Inspectors in his district are elderly and either incapable or unwilling to bestir themselves to come up to the standard of modest activity now demanded of them. Of the 32 Circle Inspectors in the district, none are said to be energetic and capable. About one-third are said to be efficient and satisfactory and four so bad and obstinately slothful that they would have to be reverted as kárkuns. The rest are said to require constant attention to keep them up to their duties.

13. The programme of boundary marks repair was carried through in the districts of Ahmedabad, Surat, Sholápur and Bijápur. Kaira, Broach, East Khándesh, Dhárwár and Kánara are very slightly in arrears which can easily be worked off next year. West Khándesh, Násik, Sátára and Belgaum show some arrears, while in Panch Maháls, Thána, Kolába, Ahmednagar Poona and Ratnágiri this work is heavily in arrears. In Ahmednagar, Poona and Ratnágiri the repair of boundary marks was postponed as rewriting of the Record of Rights was to be pushed on.

14. Mr. Seddon's system of simplifying boundary marks was again tried this year in all the districts where it was found to be working very satisfactorily both by the District Officers and the people except in the Konkan Districts. The Commissioners in conference have recommended its further trial except in the Konkan where owing to peculiar circumstances the system was found to be unworkable.

15. Details of measurement and classification work done by Circle Inspectors, General Duty Inspectors, and special Measuring Circle Inspectors are given in Statement II. Most districts seem incapable of submitting this return punctually and correctly. The lateness of this report is due only to the impossibility of getting these returns in time.

Measurement of Sub-divisions.

16. Northern Division.—In Gujarát 4 parties of 8 surveyors each were working under the supervision of a Head Surveyor. During the year 64 villages of North Daskroi, 63 of South Daskroi, 8 of Kapadvanj, 15 of Borsad and 14 of Mehmedabad were completed. In all 90,487 hissas were measured at an average cost of 416 annas per hissa. This year the standard scale of

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output was raised from 10 to 12 hissas per day per man. The average actual outfurn was 172 hissas per day. Such results, either as to cost, or speed have never been attained by previous methods, Cross Staff or 'Phalni' Survey, and these Gujarát Sub-division Surveys by Plane Table give results of an accuracy and utility much above the old style. Up to now Surat and Broach Districts have been completely measured. In Kaira, the táluka of Mátar and some villages of Mehmedabad remain to be measured. The Panch Maháls District and 7 tálukas of Ahmedabad still remain to be done. The Panch Maháls District and Mátar Táluka with the remaining villages of Mehmedabad will be taken up during the coming field season, leaving the Ahmedabad Tálukas to be done next year. Thus the whole of Gujarát will be finished in a couple of years.

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In Thana 42 surveyors, under 4 Nimtandars and supervised by a 17. Head Surveyor, were employed on measurement and amalgamation of subdivisions and revision of Record of Rights. One Circle in each of Sálsette, Dáhánu, Umbargaon, Bassein, Kalyán and Máhim (except 1 village) and 7 villages of Murbad were completed. In all 55,254 sub-divisions were measured and mapped and 66,766 entries in Record of Rights examined. The average cost per hissa was 5.5 annas. The average outturn per man per day was 12 hissas. Rs. 15,209 were recovered during the year out of Demand Statements for Rs. 20,850. Up to now the Sálsette, Bassein, Máhim and Kalyán Tálukas, with the exception of one village in Máhim and the villages of Bándra and Dánda, have been completed. Nineteen circles in Murbád, Dáhánu, Umbargaon, Váda and Mokháda, Sháhápur and Bhiwandi now remain to be done. The work in future is to be done entirely by Plane Table. Bándra and Dánda were left over this year as I intend to make a solid survey of these villages on the Triangulation Method and to cover the whole South-West Sálsette with a net work of triangulated stones on which detail maps for the entire area could be based. The records and maps prepared by the Sálsette Development Engineer for the "Holdings Survey" ought to be utilised for this triangulation survey. These maps are in a remarkably good state and the fold holes good complete though they require to be classified state and the field books seem complete though they require to be classified, indexed and arranged so that our surveyors can use them. For this work a surveyor from the Consulting Surveyor's office is now deputed and is rescuing the papers from confusion, and we hope soon to be able to demarcate the essential points in that Survey and use it for our purposes.

18. Central Division.—At the beginning of the year there were 15 parties of 221 men and, as usual, they were employed in the rains on distribution of assessment over sub-divisions measured in the previous fair season. In October a large number of men were drafted for preparing akarbands of several talukas of the Poona District, revised settlement rates of which were to be levied. Also a party of 17 Measurers and Classers was sent from the Pôt Hissa Parties for the revision survey in Miraj (Junior) State. Consequently calculation of assessment of only 337 villages could be finished and 52 villages were left over when the parties again took field. Therefore a party of 57 men was kept at Poona, to clear off the arrears and was disbanded at the close of the year. In November 12 parties of 134 men took the field. Of these, 7 were working with Chain and Cross Staff and 5 with Plane Table. During the field - season more men were trained and added to the parties till ultimately there were 19 parties of 229 men. The Chain and Cross Staff Parties could not reach the same high standard of excellence as the Plane Table Parties. All these parties were therefore converted into Plane Table Parties at the close of the year. In future all sub-divisions in this Division also will be measured exclusively by Plane Table. Work was done in the talukas of Pandharpur and Mádha of Sholápur, Karád, and Koregaon of Sátára, Párner, Sangamner, Shevgaon and Páthardi Mahál of Ahmednagar and Sinnar and Málegaon of Násik. In all 193,319 sub-divisions were measured in 459 villages, including two Inám villages of Khánápur, one of Khandála Peta and one of Sátára. Assessments were calculated on 136,517 sub-divisions. The head-quarter party calculated assessments on 59,304 sub-divisions in 93 villages. A party 10,261 sub-divisions in 18 men demarcated irrigated of 18 villages of Bhimthadi as per Government Resolution No. A.I.-13510 11th December 1915. In course of this operation 3,200 0ť

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new hissas were also measured. 1,289 sub-divisions were demarcated in $_6$ villages of Kopargaon. Instructions have been given to see that during these operations all new hissas are measured and the old work is completely scrutinised, so that the whole village may come under revision at the same time. In addition to the parties working under the Survey Mámlatdár two parties of 30 Measurers under the District Inspector of Land Records were working in the Amalner Táluka and Párola Peta of East Khándesh. They measured 19,841 new sub-divisions in 195 villages of Amalner and 81 of Párola. Six Measurers under a Nimtandar measured 3,007 new hissas in Chopda and 5 Measurers measured 2,786 new hissas in 239 villages of 3 tálukas in West Khándesh. Two special Measurers were sent to Nagar and Kopargaon Tálukas for measurement of new hissas. They completed the recess work of last year and measured 1,055 new hissas in Kopargaon and 957 in Nagar. One special Measurer, appointed for the upkeep of sub-division measurment in Bársi, measured 750 new hissas. The aggregate number of hissas thus measured in Central Division was 24 lakhs. The average cost per hissa in the parties working under the Survey Mámlatdárs ranged from 26 to 39 annas in Nagar and Násik. Including labour and supervision charges, the cost was 4.9 annas per hissa. In Sátára and Sholápur it ranged from 3 to 3.5 annas. Including labour and supervision charges the cost was 4.5 annas, which is approaching the Gujarát level. Prat phalni which distributes the assessment over the parts of the Survey Number in proportion to all differences of soil quality is not carried out in Gujarát, partly because of the destruction of the classification records, and partly because the fields show less variation in quality than in the Deccan. The average cost for this operation ranged from 2.7 to 3.8 annas. The cost of measurement of new hissas by special Measurers was 9.5 annas per hissa. The fee sanctioned for measurement by Talátis is 4 annas per hissa. So this difference between 4 annas and 95 annas is the true measure (subject to modification no doubt as more experience is gained) of the difference to the public between the two systems. Out of Demand Statements issued for Rs. 69,895, Rs. 45,173 were recovered during the year. The arrears are due to late issue of Demand Statements in Purandhar, Koregaon and Khandála Peta. Up to now measurement of subdivisions has been completed in East and West Khándesh Districts, 1 peta of Sátára, 6 tálukas and 1 peta of Poona, 3 tálukas of Sholápur, 7 of Nagar and 1 of Násik. Two tálukas each of Sátára, Sholápur and Násik and 1 táluka and 1 peta of Nagar are in hand. Nine tálukas and 2 petas of Sátára, 2 tálukas ' and 1 peta of Nagar, 3 tálukas of Poona, 2 of Sholápur and 9 of Násik now remain to be done. Roughly speaking it will take another 4 or 5 years to finish the Deccan Division.

19. Southern Division-Konkan.-Seven parties of 67 men and 4 parties of 40 men were employed in Ratnágiri and Kolába Districts respectively supervised by a Survey Mamlatdar. 128 villages in Kolába and 11 in Rájápur were finished. Thirty-one villages of Málwan, 1 of Deogad, 7 of Mahad and one Inám village of Karjat are in hand. In Ratnágiri 39,423 hissas were measured by the Phalni system and 12,681 by Plane Table and 15,424 hissas were amalgamated. In Kolába 21,032 hissas were measured by Phalni and 4,626 by Plane Table and 9,934 hissas were amalgamated. The progress this year was slower than last year as the Plane Table was extensively used for though the first time by men unfamiliar with it. The work though less in quantity is far superior to Phalni work. The Measurers had no experience of the Plane Table. They were not well trained and also started with a certain amount of prejudice against the new system. These, combined with the well known difficulties of the Konkan, the very irregular field boundaries, extremely bad communications, the hilly country and apathy of the people which rendered it very difficult to secure the attendance of Kabjedars, are accountable for the small output of the year. The causes were investigated by deputing a Gujarát expert to Konkan and the Konkan Survey Mámlatdár to Gujarát, both of whom arrived at the same conclusions. The cost of measurement of each hissa was annas 5 in Sangameshwar and Ratná-giri, 4 in Vengurla, 6 in Rájápur and 7 in Mángaon. The cost of amalgamation was 1.5 annas in Rájápur, 1.75 in Mángaon, 1.25 in Ratnágiri and 1 anna in Vengurla.

20. There has been some grumbling in the Indian Press about these charges. No doubt 5 or 6 annas is a large charge for some of the minute fragments of almost valueless warkas which sometimes constitute a "Hissa" in Ratnágiri. Not only do I feel confident of reducing the charges next year, but I have also arranged a system of graduating ("assessing") the charges in relation to the size and value of the hissa, which will largely meet the complaint. During the year Rs. 14,346 were recovered in Kolába out of Demand Statements for Rs. 28,199 and Rs. 6,583 were recovered in Ratnágiri out of Demand Statements for Rs. 48,562. The small amount of recovery is due to the Demand Statements not being sent early enough to enable the recoveries being made with the land revenue instalments. Arrangements are now made for the early issue of Demand Statements.

A notable feature of the year was the experimental survey of 7 Khoti 21. villages in Mahád according to the methods first tried at Udtara (Sátára District) last year. The object of the survey was to prepare a Record of Rights in accordance with existing sub-divisions of land which have come into existence in the majority of cases, disregarding the old division of fields and their vanished boundaries. Without a solid survey of the whole country, this was not possible. The survey was started personally by me with the help of a small party of 3 Surveyors and a Head Surveyor who had done the Udtara Survey last year. The method of Minor Triangulation with Plane Table interpolation was followed. Pillars were established and triangulated and then the intervening field boundaries were mapped by Plane Table. This reliance on a permanent frame-work was urged in vain upon our Survey Departments half a century ago. If it had been adopted, we should not now have to resurvey these villages. The revision of maps necessitated by 40 years of changes and neglect would have been a minor operation to which our talatis should be trained and competent to carry out every year if need be.

22. Karnátic.—A Plane Table class for the training of Measurers was started in Belgaum. On account of heavy rains, field work was started in December with one party in Sampgaon, 3 in Belgaum and 4 in Khánápur. The number of Measurers which was 71 at the beginning was gradually raised to 101 at the close of the season. The Sampgaon Táluka has been completed and Belgaum and Khánápur are partly done. The number of hissas measured is—

Sampgaon	2,149 by Plane Table. 5,954 by Phalni.
Belgaum	21,110 by Plane Table. 9,345 by Phalni.
Khánápur	23,840 by Plane Table. 5,135 by Phalni.

The recess work of Sampgaon, Kod, Kalghatgi and Mudebihál Tálukas measured last year was done in the rains. The work of tálukas measured this year is in progress. The average cost per hissa is 4 annas 2 pies in Kalghatgi, 8 annas 3 pies in Kod, 5 annas 2 pies in Mudebihál and 5 annas in Sampgaon. The high cost in Kod is due to the táluka being the first in the Division in which Plane Table was used and hence the scale of output was low at first. The other tálukas were mostly measured by the Phalni method, which is now abandoned. A good deal of the work done by this Phalni method is so inexact and untrustworthy that a gradual revision by means of trained village accountants will have to be made. In the Dhárwár District, the Accountants in 3 tálukas are now trained, or under training and are doing well, with the exception of those few who, protected by the Watan system, are too incompetent and lazy even for their routine work.

Demand Statements issued and recoveries made during the year are :---

		Demands.	Recoveries.
Dhárwár		16,588	11,608
-		13,628	11,600
Belgaum	• • •		5,029
Bijápur	• • •,	0,001	0,020

Di	strict.	-	Tálukas finished.	Tálukas in progress.
Belgaum			Sampgaon. Parasgad.	Khánápur. Belgaum.
Dhárwár Bijápur Kolaba	•••	•••	All Tálukas. All Tálukas. Pen. Panvel. Roha.	Mahád. Mángaon.
Ratnágiri	••••	••••	Karjat (27 villages). Ratnágiri. Chiplun. Dápoli. Vengurla.	Málwan. Deogad.
			Sangameshwar. Rajápur.	

The progress up to date of Pôt Hissa work in the Southern Division is as follows :---

In Kánara no work has yet been done. Roughly speaking, 3 years should suffice to complete the Southern Division. We are largely increasing the rate.

23. General Remarks.—Improvements were made during the year in the method of working and general output. In the Central and Southern Divi-sions, Plane Table was extensively used. In the Southern Division the Plane Table parties were giving a very low output. Causes were investigated and defects remedied. Arrangements have been made for a thorough reorganisation of the parties and next season the work will be started with a better stan, better trained and equipped. The maintenance of these hissa surveys received my special attention this year. For this purpose the Talátis of the Haveli Táluka and Mulshi Peta were trained in Chain and Cross Staff measurement last year as the original work in these places was done by that process. Unfortunately they were not able to do any work this year as they were engaged in drawing up village accounts consequent to the introduction of 2nd Revision Settlement in the Háveli Táluka and in collecting the land revenue and writing up the Record of Rights in Mulshi Peta. These Talátis will again be given a short training and set to the measurement of new hissas. In the Párdi tion of the parties and next season the work will be started with a better staff; given a short training and set to the measurement of new hissas. In the Párdi Táluka of the Surat District 35 Talátis were given training in Plane Table survey. Thirty-one were qualified and 4 were rejected on account of old age and bad eyesight. The trained Talátis were then set on measuring 790 new hissas that were formed during the year. Their work was found to be generally correct with a few discrepancies which were explained to them. Annas 4 were recovered for every hissa thus measured out of which 3 annas were paid to the Taláti for every hissa measured and 1 anna credited to Government for contingent expenses on postage and forms and for the entertainment of temporary hands in the Central Record Office, Ahmedabad, for correction of survey records. The Kabjedars of these newly measured hissas were also given copies of the maps of their hissas. Five of the Talatis did specially good work and were recommended to the Collector for special recognition. In the Southern Division similar classes were held in Bankápur and Hubli Tálukas. In Bankápur 67 Kulkarnis, 3 Circle Inspectors and 1 Head Kárkun were trained, and in Hubli 56 Kulkarnis and 3 Circle Inspectors were trained. 'After the Depletone Kulkarnis' measured Inspectors were trained. After training, the Bankápur Kulkarnis measured 131 new hissas in one month. The Hubli Kulkarnis could not do any work as they were supplied with Plane Tables very late in the season. It is yet too early to say anything on the success of these experiments till it is tried for a period of 5 years or more. More Tálukas will be taken up for this training next year. But with the encouragement of the local Revenue Officers, and with patience and perseverance, I am certain this radical reform of making our village staff responsible for and capable of executing all minor survey work can be carried out. I have never pretended it was so easy or likely at first to be so faultless as selecting a body of trained measurers, with peons, etc., and sending them touring round the villages : but it can in time and with effort rise to the same standard and cost the country less than half—and that is the crucial test.

CHAPTER III.

SURVEY AND SETTLEMENT WORK.

Revenue Survey Work.

[•] 24. Northern Division.—The Gujarát Field Party consisted of 10 hands. One of the posts was kept vacant. Of the 9 men remaining, one was deputed as Head Surveyor of Gujarát Hissa Survey, two as Nimtandars in the survey of Limbdi villages, one worked as special Measurer in the Surat District under the scheme sanctioned in R. 4618 of 1916, and one was engaged on making a traverse map on a Vanta of about 700 acres belonging to the Wadhwán Durbar. The rest were employed on the verification of boundary between British and Baroda villages, on road measurement in Daskroi Táluka and other miscellaneous measurement and classification work in Surat and Kaira Districts. In all these four men measured 1,291 acres and classed 213 acres. Of the 3 surveyors constituting the Thána party, one post was kept vacant and the remaining two were engaged in the measurement and classification of land given for reclamation and the verification of the Daman (Portuguese) boundary. They measured 207 acres and classed 158 acres : but of course this is not the whole of their work.

25. Tálukdári Survey.—The survey of the Tálukdári villages belonging to the Thakor of Limbdi in the Dhandhuka Táluka was sanctioned by Government Resolution No. 6487 of 30th June 1916. The survey was started early in December 1916 with a party of 13 men and 3 Nimtandars under my personal supervision. There are 30 villages to be surveyed, 28 belonging to Limbdi and 2 Udhad Jama villages which were not done at the time of the Tálukdári detail survey. The survey was carried on by means of the Plane Table based on a network of trigonometrically connected stones covering the village. It is the method first tried by me at Udtara in Wái Táluka. Seventeen villages were completed during the season, covering an area of about 52,350 acres, at a cost of about Rs. 6,500 which works out to not more than annas 2 per acre which is well within my estimates, and not half the estimate of the late Superintendent of Land Records. Registers and maps are being now duplicated for the convenience of the Settlement Officer. It is hoped to complete the remaining villages next season. The maps will be printed after the Settlement registers have been prepared, so as to incorporate any emendations he may make in amalgamating or subdividing plots, and so on.

26. Central Division.—The Central Division Field Party was first deputed to pôt hissa survey. By the end of November 1916, a party of 16 Measurers and Classers under a Head Surveyor was deputed to take up the Revision Survey work of Miraj (Junior) State as per Government Resolution, Political Department, No. 5432 of 19th July 1917. Out of the three tálukas, Kavtha Táluka was completely finished including classification; one village was completely measured and another in part in the Kuroli Táluka. The villages were measured by Plane Table. Pôt hissa survey was also carried out in 2 villages of Kavtha and 2 of Kuroli Tálukas. The village of Udtara, measured last year, was classified this season. The rest of the party continued to work on pôt hissa measurement as part of that establishment till field season closed in June 1917.

27. Southern Division.—The strength of the Field Party during the year was 33 surveyors and 4 learners and 1 clerk. Most of these men were employed on paid work. Nearly half the number was absorbed by the Pôt Hissa and City Surveys. The Parma and the Kurundwád (Senior) State surveyors engaged about 10 men and the rest were deputed to dispose of measurement cases in Belgaum and Dhárwár. They measured 273 Survey Numbers and 1,869 new hissas in Belgaum. In Dhárwár 254 measurement cases were disposed of, and 179 mixed Inám numbers were measured. In Parma the classification of 2 villages, Usap and Maneri, was completed. Two

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more villages, Kasai and Khokral, were completely surveyed. The traverse work of a fifth village has also been done. The progress is not rapid, as the amount at our disposal (paid by the Desai) is limited : but I have just been there and taken steps to cheapen and accelerate the work. The Revenue Survey of 3 tálukas of Kurundwád (Senior) State and of 2 villages of Wádi Jahgir in the Miraj (Senior) State was undertaken as per Government Resolutions, Political Department, Nos. 1804 of 6th March 1917 and 5243 of 12th July 1917. In Kurundwád all new rice and garden and all alluvial lands were measured and classed in 29 villages of Kurundwád, Angol and Tikota Tálukas.

Revenue Settlement Work.

28. Northern Division.—Settlement report for the 7 villages of the Kurla Estate was submitted and rates were sanctioned and announced during the year. Settlement rates were also announced in the Inám villages of Itadi and Habsabad in Modása and Mithipur in North Daskroi. Settlement reports of Mátar and Mehmadabad have also reached Government.

29. Central Division.—Settlement reports of 11 Inám villages in Sátára, Nagar and Násik Districts were submitted by the Superintendent of Land Records, of which settlement rates for 5 villages were sanctioned during the year. Settlement rates were also sanctioned and introduced into the Máwal Táluka of Poona. Original Settlements were introduced in Vaduth (a Government village) and 6 Inám villages of Sátára, 2 of East Khándesh, 3 of Násik and 1 of Nagar. Revision rates were introduced into 3 inám villages of Násik, 1 of Nagar and 63 of Poona.

The preparation of Akarbands of 3 tálukas of Poona, and 4 tálukas and 1 mahál of Ahmednagar begun last year was completed.

30. Southern Division.—Revision Settlement was introduced in 3 Inám villages of the Dhárwár District. Settlement reports of 19 Inám villages of the Belgaum District, 1 of Bijápur and 1 of Ratnágiri, were submitted by the Superintendent, Land Records, during the year.

The work of preparing Akarbands of the newly revised tálukas of Belgaum, Bijápur and Ratnágiri was finished during the year.

CITY SURVEYS.

31. Northern Division.—No new City Survey was undertaken this year; it was not advisable to start any fresh City Survey before the City Survey Manual was out. Enquiry work in the towns of Nadiád, A'nand, and Borsad was completed during the year. In these towns more than 3,000 appeals have been made against the decisions of the Enquiry Officer. After the close of the year, an officer was appointed to hear these appeals, after which the maps will be finished off and printed and Sanads issued. Proposals for the appointment of a Maintenance Staff for these City Surveys were sanctioned after the close of the year. Maps of Thána City Survey are being printed at the Photozinco Office. A Surveyor has been appointed for the maintenance of this City Survey. In Bándra a good deal of work had to be done before the maps could be ready for printing. A large number of Theodolite Stations had to be demarcated afresh and the number of storeys had to be shown. The records of Godhra City Survey have been properly maintained by the Surveyor under the supervision of the Assistant Collector. The Surveyor has revised 273 Theodolite stations; and 2,146 properties which had altered since the Survey, only 5 years old. The Record of Rights for the city-surveyed area is being written with the help of a Circle Inspector. The maps of the Viramgám City Survey were prepared and are being printed in the Photozinco Office. Fresh Sanads for this City Survey are being prepared as ordered in Govern-ment Order No. 10389 of 30th October 1916. A Maintenance Staff has been entertained and the maintenance of the records and preparation of Record of Rights will be started as soon as printed maps are ready. The revision of the City Surveys of Ahmedabad City and suburbs is being carried out by the existing City Survey staff of 3 Surveyors. In the suburbs 5 village sites have been revised. Two tikas in the city proper have been finished and 2 are in hand. The staff of 2 Surveyors for the revision of 93 tikas of the city is too small. Proposals have therefore been made to strengthen the staff. The Superintendent of Land Records inspected the City Survey Offices of Surat, Ránder, Bulsár and Broach. It was found (and indeed long known) that the old City Survey has not been kept up to date and there are a vast number of changes to be mapped and recorded. Revision City Surveys in these places are quite necessary. On account of the paucity of staff and financial stringency it is not desirable to take up these revisions in the near future.

32. Central Division.—Two City Surveys—Násik and Bhusáwal—were undertaken during the year. The work at Násik and Bhusáwal was commenced about the middle of August 1916. Owing to outbreak of plague in Bhusáwal the survey and enquiry work had to be stopped. The survey work was resumed on 22nd June 1917 but the enquiry work could not be started as plague has again broken out. The survey work in both the City Surveys is being carried out under the improved methods and the final sheet maps are being drawn up on the Bombay lines, showing every possible detail. I inspected the City Survey work at Násik several times and the Superintendent of Land Records at least 3 times. With the improved methods, the cost of City Surveys is considerably reduced. Recess examination is practically abolished and as much of the detail measurement is being done by Plane Table as possible. The traverse work at Bhusáwal was revised under the Superintendent's personal supervision. In Manmád the enquiry work which was abandoned owing to plague was resumed and finished. Tracings of the maps were prepared under the Superintendent's supervision and sent to the Photozinco Office for printing by Vandyke process. These have been printed and sent to the District Survey Office. Tracings of Dhulia City Survey maps were prepared and sent for printing. Copies of about 30 sheets have been struck off. Nandurbár and Jalgaon maps were being traced and have since been printed. In Igatpuri the revision of City Survey sheets is in progress. The Superintendent visited Igatpuri to inspect the progress. The work was found improperly done. Instructions were issued to the District Inspector, Land Records, and the Circle Inspector appointed for that work, as to how the revision is to be carried out. In Poona the small amount of survey work that remained incomplete last year was finished. The enquiry work was held in abeyance owing to plague from 1st November 1916 to 9th April 1917. Mr. Yardi, the District Inspector, Sátára, was appointed as Enquiry Officer, Poona, who took charge of his post from 10th April 1917. The enquiry work is complete for the most part of the city. The work of tracing sheet maps is done in Photozinco Office. About 25 sheets were traced and printed. The sanad-preparation work is also started and the printed sketches are being used for sanads. Record of Rights was introduced in the city-surveyed area of Bársi and Nagar. According to recent Government orders steps are in progress to introduce it in the other city-surveyed areas. At the time of City Survey the theodolite stations were not demarcated by stones at Dhulia, Man-mád, Nandurbar, Sholápur, Bársi, Nagar and Poona. The work was undertaken in Dhulia and Manmád during the year and was finished. Allotments for Sholápur and Bársi have been sanctioned and the work will be undertaken soon. Proposals for necessary grants for Poona and Nandurbár have already been submitted. As for Nagar, report is being made in the matter. A small establishment is entertained as per Government Order No. 1908, dated 17th February 1917, to show on the sheets for Sholápur built over and unbuilt portions in house properties, and the work is in progress. Steps are in progress to appoint qualified Surveyors for the maintenance of these City Surveys: A permanent staff has been appointed at Nagar, Bársi, Dhulia, Nandurbár, Igatpuri, Manmád, Jalgaon and Sholápur. For Poona, a staff is sanctioned and will be entertained as soon as Financial sanction is received. The maintenance of the City Surveys is very important and the Land Records Department will have to closely supervise the working at least during the initial stages. District Inspectors are being advised to carefully study City Survey methods described in the Manual and to see that the rules regarding maintenance are being followed by the Surveyors.

33. Southern Division.—The City Survey of Ránebennur was completed at the end of May. At the request of the Collector and the Municipality a

separate map of the Municipal area was prepared at a cost of Rs. 96-9-6 which was met by the Municipality. The enquiry lasted from 25th November 1916 to 31st July 1917. Upkeep work has been started since then. Directly the final numbering which is in progress is finished the maps will be sent up for printing and the Property Register writing begun. The cost of the survey works out at Rs. 1-11-0 per property. Sháhápur City Survey was desired by the Sángli State and started with the permission of Government (Government Resolution No. 9094 of 18th December 1916) on 1st February 1917. It was closed at the end of July owing to rain and will be begun again in November. The measurement of all the properties except 210 has been completed. The enquiry is being conducted by the Mámlatdár of Sháhápur himself, as desired by the State. Byádgi City Survey was started on 13th June. The traverse took about a month and house measurement has been going on since July. It will be completed by the end of October. This is the first such survey conducted from the beginning strictly on the complete lines laid down in my City Survey Manual. The enquiry work in Belgaum was completed on 15th January 1917 and in Bágalkot at the end of December 1916. Final numbering of City Survey Numbers has been completed and the maps sent for printing to the Photozinco Office. Property Registers have been completely written in both places. Sanad-writing will begin immediately on receipt of maps. One trained City Surveyor has been supplied to Belgaum, Bágalkot and Ránebennur each for the upkeep work. Steps have been taken to provide the necessary equipment for the Belgaum and Bágalkot offices. Some of the instru-ments have already been supplied and the Collectors have been asked to provide funds for others. The Surveyors have been personally instructed in the filing of correspondences according to the selfindexing system and they have begun the sorting of records. A proposal has been made to the Collector of Belgaum to provide a clerk for the City Survey in addition to the Surveyor as the number of properties exceeds 7,000 and the work is expected to be heavy : but I hope it will, in time, be found within the powers of one man. In Gadag most of the Sanads have been issued. The whole of the demand, with the exception of Rs. 13, has been recovered. Gadag was the first City Survey in the Southern Division and was made when the methods had not been properly worked out. Consequently there are some defects in it, chiefly that the built and unbuilt areas have not been distinguished. This will be done by degrees by the upkeep Surveyor. The Record of Rights has recently been introduced within the City Survey limits of Gadag as per Government Resolu-tion No. 683 of 20th January 1916. The work was begun on 1st March and completed on 30th June. It was tested by the Special Head Kárkun and the Pránt. The Record was improved and promulgated on 20th July 1917. As Pránt. The Record was improved and promulgated on 30th July 1917. As no separate City Survey village has been made, the village accounts will be kept by the village officers, and the accounts of the City Survey area by the upkeep establishment. The Dhárwár City Survey is old and has become out of date owing to the absence of any method of upkeep. A few tikkas were revised, to see how far the old survey could be utilised. It was found that it took more time to relay the old stations and base lines than to make an entirely new survey. The conditions of Hubli are similar. Proposals have been sent to the Commissioner for the revision of the Dhárwár City Survey. In Bijápur also the revision of 2 tikkas was undertaken. The conclusion arrived at is the same as for Dhárwár. I have directed one more tikka to be taken up on different lines, to see whether the old survey can be made any use of. All the old records in the office have been sorted and filed according to the selfindexing system. The writing of the Property Register is making very slow progress.

Village Site Surveys.

34. Record of Rights was declared in the 7 village sites of Surat surveyed last year. In Broach, enquiry was held in the 8 village sites surveyed last year. Record of Rights has been prepared and Mutation Registers maintained. Maps of these village sites have been sent for printing and regular maintenance of these will begin on receipt of printed copies. In Broach the cost of surveying and enquiry in small village sites with a population of less than 2,000 souls was 5 annas 8 pies per plot. For the large village sites, with a population of more than 2,000 and surveyed on the principles of City Survey, the cost was nearly 9 annas per plot because here the cost of Enquiry was also included. In the Panch Maháls the village sites of Shehera, Vejálpur, Garbada and Jhálod are said to have been surveyed. This is not a regular village site survey with measurement of houses and enquiry into titles, but only a rough survey of roads and open spaces by Chain and Cross Staff by the local Circle Inspectors. No scale drawn maps are prepared. The utility of such a survey is doubtful as without the measurement of houses, enquiry into title and regular maps, it would be difficult to prove encroachments or deal with them. No more such work should be done. When Pôt Hissa Surveys are completed, we shall have a competent trained staff ready to survey as many village sites as desired, at a low cost and in a style that can be permanently maintained.

Government Photozinco Office.

35. The special feature of the year was the adoption of the Cost System, prepared by the Manager, as a result of Mr. Joshi's proposals, which as the result of much consultation, was brought into force from October 1916. During the first half of the year 792, 452 pulls were taken out at a cost of Rs. 4,245-4-8, valued at Rs. 65,955-11-6, leaving a profit of Rs. 23,501-6-10 for the office. According to the cost system the following work was done :---

Name of Section.	Outturn.	Cost.	Average cost rate from which the actu cost is determined.					
Name of Section.	Outlurn.	COSU.	Cost rate.	Per				
Mounting Branch Photozinco and Litho Helio Vandyke Engraving	20,544 hours 167,467 square inches 2,038,654 square inches 4,828 Negatives 20,929 square inches = 86 { plates. 185,964 square inches = 133 } plates. 6,351 square inches = 146 { Blocks. 834,821 Machine pulls	Ra. a. p. 6,754 3 11 1,693 14 6 8,221 5 1 { 815 14 8 { 905 8 10 { 1,681 5 4 { 15,289 0 2 1,871 8 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Hour. Square inch. Square inch. Negative. Square inch. Plate Square inch. Plate. Square inch. Block. 100 pulls.				

The point of this system is that it gives us—

(a) an exact method of stating the cost of all work done, and charging for it correctly;

(b) a means every half-year of checking the rise or fall of all these ' unit costs', which forms an inexorable and continuous test of efficiency in every detail.

A detailed report on the working of this Department is separately submitted to Government.

CHAPTER IV.

RECORD OF RIGHTS.

36. Northern Division.—In Ahmedabad the Record has been completely rewritten throughout the district and was duly declared in all tálukas. It was prepared for the first time in 3 villages of Virangám and one of Sánand as these villages were made Khalsa in June 1916. In Kaira the quinquennial revision was completed in Narwadari villages of Anand and 2 villages of Nadiád. Rewriting in the Narwadari villages of Mátar and Borsad was postponed till completion of measurement of sub-divisions. In Panch Maháls the Record was introduced in the Mehwási village of Naranpaginu Muwadu in Kálol. It is prepared in two parts, one showing the relation between the Mehwasdar and Government and the other between the Mehwasdar and his tenants. In Broach the Record for Bighotia villages of Broach, Amod, and Jambusar was rewritten. Rough copy has been prepared in the Bighotia

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villages of Vágra and all the Bhagdari villages of the district. In Surat, rewriting is in progress in all Khalša, surveyed Inám and Sharakati villages. It was promulgated in the Inám village of Syadla in Olpád. It is also being prepared in 2 parts in the Bhagdari villages of Kumbharia (Chorási), Madhar and Khalipur (Olpád) and Medhar (Jalálpur). In Thána, rewriting is being done in 3 Circles of Sháhápur, 1 each of Murbád, Váda, Umbargaon, Sálsette, Máhim and Bassein and in 2 Circles each of Dáhánu and Mokháda. In one Circle each of Kalyán, Máhim, and Bassein, the rewriting was done side by side with measurement of sub-divisions.

Central Division .- In East Khandesh, the rewriting commenced last 37. year in Amalner, Ráver and Yáwal was completed. In Páchora, the 2nd rewriting was completed. It is in progress in Bhusáwal and Edlabad peta. Chopda was due for 2nd rewriting this year but was postponed till next year as the 2nd Revision Settlement is to be introduced in it. The Record was prepared for the first time in the Inám villages of Tondapur in Jámner and Bhokri and Tamaswadi in Ráver. In West Khándesh, the rewriting taken up last year was completed. Sindkheda, Sháháda and Shirpur Tálukas were selected for 2nd rewriting this year. Rewriting in Shirpur and Sháháda Tálukas was postponed as the Settlement in these tálukas is to be revised shortly. In Sindkheda, rewriting is in progress. In Násik, rewriting was undertaken in Násik, Chandor, Peint, Kalwan, Nándgaon, Sinnar and Niphád Tálukas. In Kalwan it is finished and is in progress in the remaining 6 tálukas. The Record is being prepared for the first time in 16 Inám villages 6 tálukas. . In 34 Inám villages rough copy is copying is in progress. In Ahmedr the comin pleted and Ahmednagar, fair Shevgaon and Páthardi Mahál and 41 villages of Párner have been completed. In Nagar Táluka rewriting is in progress. In Poona the rewriting was completed in 5 villages out of 10 of Haveli which had remained to be rewritten last year. Rewriting was due this year in Mawal, Sirur, Purandhar and Mulshi. Máwal and Mulshi have been revised and fair copying is in progress. In Purandhar and Sirur it was postponed for want of funds and will be taken up in 1917-18. In Sholápur the preparation of Record of Rights for the city-surveyed area of Bársi was completed and is in progress in Sholápur city-surveyed area. The Record was announced for the first time in the Inám villages of Ganeshgaon and Kolegaon in Málsiras. No táluka was due for rewriting this year. In Sátára rewriting was in progress in 112 villages of Sátára, 74 of Mán, 67 of Khánápur and 3 of Wálwa. Thirty-nine villages of Mán were completed. It was also completed and announced in 9 Inám, villages and is in progress in 2 Inám villages of Khánápur. The Record prepared last year in 27 Inám villages of Pátan was announced this year. The Record was also due to be rewritten in Wái, Karád and Koregaon Tálukas, but was postponed for two seasons, pending completion of pot hissa measurement, now in progress.

Southern Division.-In Belgaum rewriting has been completed in 38. the Parasgad Táluka. In Athni, Chikodi and Sampgaon preliminary inspection has been made and the Record will be announced next year. In the Gokák and Hukeri Tálukas it was postponed, pending completion of hissa survey and also in Belgaum and Khánápur, pending introduction of 2nd Revision Settlement. In Bijápur, rewriting was completed in Indi, Bágewádi, Bádámi and Hungund Tálukas. In Muddebihál, it is being postponed since 1914-15 for completion of hissa survey. Preliminary inquiries are completed and rewriting will soon be taken up. The rewriting due in the Bilgi Peta and one circle of Bágalkot was postponed for being done with the rest of the táluka next year. In Dhárwár, the Record was prepared for the first time in 4 Inám villages of Dhárwár. Rewriting is in progress in Dhárwár, Hubli and Gadag Tálukas. It was postponed in Karajgi and Ránebennur, pending completion of hissa survey. The preparation of the Record in the citysurveyed area of Gadag in progress. In Kolába, the Record for all Government villages of Pen Táluka and Nágothna Mahál and 8 Khoti and 4 Inám villages of Pen was rewriten. In Mahád, it is in progress together with hissa survey in 7 villages. In Khoti villages, the formal writing of the Record has been delayed, because it was found useless to attempt to prepare a Record of ownership until sub-divisions have been mapped out. The existing survey, pôt and phalni numbers and the whole state of things described in the Suds have now become entirely obsolete; the state of things in the field so largely differs from that described in the Suds that it is often quite impossible to identify plots of lands shown in the old records with the existing holdings in the field. All the Khoti villages should therefore be surveyed afresh on the minor triangulation system with pôt hissa measurements. The Record can then be successfully prepared for these villages. In Ratnágiri the Record was rewritten in one village of Vengurla, 11 of Málwan, 26 of Rájápur, 53 of Ratnágiri and 22 of Sangameshwar. It was postponed pending completion of hissa survey in 34 villages of Devgad, 12 of Rájápur, 1 each of Ratnágiri, Sangameshwar and Dápoli and 42 villages of Khed. It was prepared for the first time in 14 sharakati villages of Devgad, 3 of Ratnágiri and 1 of Dápoli. In Kánara, rewriting was completed in Sirsi, Siddápur, Yellápur and Mundgod. In Kárwár, Kumta, Bhatkal and Haliyál it is in progress. In Ankola and Honáwar, the rewriting was postponed till next year for sake of convenience. Supa was due for rewriting this year, but as there were very few mutations, it was postponed for two years more. •

It is generally stated that the Record is becoming fairly accurate and reliable and the people, including backward classes, now sufficiently realise the importance and benefits of the Record. Nevertheless complete accuracy cannot be attained until pôt hissa survey has been done and arrangements made for the measurement of new hissas. Where this has been done, one can now step into any field or plot of land, and ask whose it is, and by what right; and one can get a prompt reply, with a map of the plot and its surrounding holdings : and in quite 99 cases out of hundred the information recorded is exactly right. Moreover, the system of maintenance, now closely interlinked with Civil Court work and the collection of revenue, ensures its constantly closer approach to incontestable accuracy.

39. During the year I have lost the services of Mr. Vishnu Balvant Naik, who has been my office Superintendent for $2\frac{1}{2}$ years of my incumbency. He has gone back to the Revenue Department to escape being blocked in his promotion. He has worked indefatigably and most helpfully in the varied activities of the ordinary routine of the Department, and the numerous reform and reorganisation movements I have instituted. No successor has been appointed, and I am getting on quite well with the experienced help of Mr. A. H. Antia. None of the more ambitious and competent senior men will accept the post, as long as it carries a salary of only Rs. 150-10-200; and thus is on a level with junior Mámlatdárs. The junior and promising men who might take it are more wanted in District work. So long as I remain here, now that I have $2\frac{1}{2}$ years' experience of the work, I can dispense with the assistance of a senior man, but if I or any other officer were newly taking up the duties of the Department, it would be necessary to reagitate this question of grading and appoint a Superintendent.

40. My Superintendents, Messrs. Dalal, Mardhekar and Reuben, have all worked so well and loyally that I do not know whom to praise most. Mr. Dalal has a very trying charge, with great extent and bad communications from Alibág to Bijápur and Harihar. Mr. Mardhekar is most energetic, and has done a lot of extra Settlement work in the Southern Marátha States. Mr. Reuben is promising very well and will, I am sure, justify his selection from the untried junior grades.

F. ANDERSON,

Settlement Commissioner and Director of Land Records.

APPENDIX A.

	turs in the	Namt Fillage Distr	in each	devoted to	Crop and f	tion.	Was Inspect				Repair	of bound	ary marl	kø,		Inspe of T Wo	uosii	ked in the	יפגנוזיע פו ו
Name of District.	Circle Inspectors		cted.	days setually work.	of occupied	rey numbers ons tested.	ste numbers rest.	tod.	village rei	airs.	Numb villages co inspecto ropais	mpletely ad and red.	layes oni at ch sva	son;	3245	Tagai Works	Which wurk	ntries chec A registers.	triet chuck of in 1 VII.
•	Number of C District	Total	Number inspected.	Number of di	Total number of occupied survey numbers.	Rumber of survey numbers and sub-divisions tested.	-Number of waste numbers other than forest.	Number Inspected.	Arrears of past year.	Current year's programme.	Arrears of past year,	Current year's programma.	Arrears of past year.	Current year's programma.	Average Anumber Rpent by the C specture of the Ji inspection and y	Number of Ts examined.	huuther in w	Number of entries checked birth and death registers.	Number of entries of Fornes VI and VII.
1	2	B	4	5	6	7	8	9	10	11	13	13	14	15	16	17	18	19	2.,
Northern Dicision		•		Average	-		, ,			,									
Ahmodabi,d	19	459	455	- 319	175,003	84,700	3 4,691	5,052	**	48	***	48	396	• 1 4	55	5	5	12,810	173,7 +>
Raisa 📷	21	520	529	177	811,701	33,228	23,428	3 ,053	, 10F	73	• •••	- 70	544	3	153	20	15	39,69 0	71,3-7
Panch Mahála	14	430	407	239	89,180	15,003	19,052	4,029	•••	66	- 114	30	544	86	45	1	1	5,380	10,823
Brooch	14	401	893	175	80,303	15,971	10,455	1,830	17	83	7	37	**1	1	39		.,.	7,238	75,331
Surat	23	820	798	155	255,049	90,069	11,658	1,017		73		75	*		123		3-5 4	10,876	152,684
Thing	87	1,621	1,328	169	198,595	10,152	19,422	8,133	23]	161	· 21	. 142)	ឆ	18}	97	8	2	19, 4 51	237,775
Central Division,			•			• •				•	-								
East Klandesh	43	1,8011	1,781	187	200, 473	24,772	9,068	2,009	17	2971	· 17 ·	2054		2	60	0	6	32,4:0	35,535
West Khamlesh .	34	1,215	1,201	80	141,640	29,835	13,667	2,836	10	179	8	170	3	9	43	1		20,710	113,113
Nasik	38	1,860	1,638	266	247,588	40,252	10,085	1,879	35	188	24	_ 180	11	8	69	4	4	16,632	250,107
Ahmednagar 🦛	48	1,875	1,939	234-2	240,711	23,982	6,525	1,900	10}	219	101	167	, •••	53	5 ∂ *€	7	3	28,6/2	307,5-0
Poons	35	1,170	1,145	- 96	221,057	23,212	2,189	003	. 8	111	2	. 90	1	. 21	39	-	-13	14,915	36,104
, Shelâpur	16 -	700	700	200		10,377	1,093	504	2	73	2	73	540	- 14	- 21	27	21	11,000	25,661
Silira	85	1,243	1,235	175	262,633	121,284	1,911	907	20	119	10	116	10	8	116	7	8	19,491	191,459
Southern Division,				· ·	•			-		· ·									
Beigann , m	80	081	028	140	175,318	24,070	6,753	1,352	4	103	4	90	: · H#	13	9 9 -5	4	4	15,501	៖ ព្រុះចាំ៖
Bljápar		1,024	1,023	207	173,416	82,050	8,174	1,401		81	49g	81	***	، مود	62	23	11	13,641	14,725
Doirwár	ł	1,200	1,256	272	185,000	41,56 9	0,131	2,194	()	1501	329	149		21	103	8 0	53	21,987	114,912
Kolába -		1,553	1,562	42.4	151,930	15,213	6,005	1,591	143.0	1242	75	871	67.4	87	23-0	544		14,852	42,5-1
Rutaigirl	22	1,837	963	130	186,819	26,948	6 ,304	2,000	B	203	1+3	25)	7	4	35	2	2	10,627	67,013
Kanara	32	1,410	1,351	180	136,902	47,817	10,678	8,171		146	, * :	115		1	77	, 1	1	10,500	1-9,074
·	1			_							· · · · · ·				·				

Statement I showing crop, waste, boundary marks and other inspection carried out by Circle Inspectors in the Districts during the year 1916-17.

· F. ANDERSON,

Settlement Commissioner and Director of Land Records.

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APPENDIX A-continued.

		beginni	rs at the ng of the ear.	New case during	s recoived the year.	Disposed the	of during year.	Balance a of the	t the close 9 year.	
Name of District.		Measure- ment.	Classi- rication.	Measure- ment.	Classi- fication.	Measure- ment.	Classi- fication.	Measure- ment.	Classi- fication.	R cm: 7ks
1		2	. 3	··· 4	5	· 6	7	8	9	10
Northern Division	n	S. Nos.	S. Nos.	S. Nos.	S. Nos.	S. Nos.	S. Nos.	S. Nos.	S. Nos.	
Ahmedabad	•••	25	80	- 429.	8	455	87	. 9	1	
Kaira	•••	338	15	730	25	833	86	235	4	
Panch Maháls		56	•••	263	7	278	7	41		
Broach	•••	. 77	•••	518	· 8	527	6	CS	2'	
Surat		60	1.	643	29	629	27	74	3	,
Thána	•••	97	43	819	• 49	746	71	170	21	
Central Dirision	.						•			
East Khándesh	·	68	•••	909	· · 3	863	3	114	•••	
West Khándosh		* 7	•••	· 472	40	432	38	47	2	
Násik		156	2	1,028	14	1,057	10	125	6	
Ahmednagar		69	•••	857	37	811	87	115		
Poona	•••	30	***	423	7	. 407	6	46	1	
Sholápur	• • •	186	៍ថ	1,410	26	1,424	32	172		, ·
Sítára		60	14	1,365	37	1,240	51	185		
Southern Division	n.					· · · ·	, i	•		
Belganm		282	· 19	1,325	31	1,291	43	316	7	
Bijápur	•••	144	3	799	23	814	26	` 129		
Dhárw ár	•••	1,115	•••	δ 68		1,334	·	649		Accurate information for column
Koláb a	•••	127	26	197	70	271	81	53	.15	3, 5, 7 and 9 no available.
Ratnágiri	•••	141	9	424	37	488	44	77	2	
Kánara	•••	283	25	891	45	' '998	69	176	1	

Statement II showing the measurement and classification work performed by Circle Inspectors during the year 1916-17.

N. B.-In the case of Broach and Poons the No. of cases are shown and not units of S. Nos.

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F. ANDERSON,

Settlement Commissioner and Director of Land Records.

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APPENDIX A.

	· · · · · · · · · · · · · · · · · · ·				Number o	f vil	lages.	ļ	,
	Name of District.		e		Total in the district.		Number inspected.	Number of boundary marks inspected.	
<u></u>	1	•			2		3	•	
				<u> </u> 		<u> </u>		<u> </u>	
	Sub-divisional Officers		*** ***	2	459	5	• 256		1,82
hmedabad.	"{Mámlatdars	•••		5	409	$\left \right $	416		8,53
	Sub-divisional Officers			1	529	ſ	· 277		48
aira .	"{Mámlatdárs	***	, , , , , , , , , , , , , , , , , , ,	Į\$	049	<u> </u>]	508	1	1,91
nch Ma	Sub-divisional Officers	sta -	*48 3 01	2	430	ļ	135		8,13
háls.	Mámlatdárs	•••	- 100 - 6 44	5		11	407		4,08
roach	Sub-divisional Officers	***	104 Ø21	2	4 01	5	361		• 44
	Mámlatdárs	•••	•••	ß		1	383	{	75
ırat	Sub-divisional Officers	•••	• • • • • •	1	820	5	539	` *	7,22
· ••	"{Mámlatdárs	•••	•••	 \$	4	R	750 -	{	4,54
bana .	Sub-divisional Officers	601	*** **]}	1,621	5	426	ļ	. 7,55
	(Mámlatdárs	148	••• •••	}	*	R	1,071	ļ	22,40
ast Khái desh.	K	***	•• 0 •••]}	1,8011	S	346		48
desn.	(Námlatdárs	***	* *** ***	()	4	ζ,	1,409		4,51
lest Khár desh.	`	188 -	*** ***	}	1,215	5	333		72
	(Mámlatdárs	***	**, •••	P			1,122		4,70
ásik .	Sab-divisional Officers	**é	848 <u>-</u> 884	}	1,666	{	858	-	41
	(Mamlatdárs (Sub-divisional Officers	•••	448 644	2	•	l	1,568	· ·	11,05
omednagar	Mámlatdár	***	*## - 191	12	1,375	{	498		27
	(Sub-divisional Officera	***.	•••		1 e r		1,143		4,02
oon a	Mámlatdárs	***	428 - 201	12	1,176	8	219		41
	(Sub-divisional Officers	***	*** •••				903		2,58 43
ioláp ar	Mánlatdárs	•••		1	700	}	414		2,46
	(Sub-divisional Officers	•••	···· * •••	ľ			526		2,40 1,28
tára .	Mámlatdárs	***	••• •••	ł	1,242	}	. 362		12,89
	(Sub-divisional Officers	. ***					1,242 435		1,44
lgaum	{ Mámlatdárs	***	4 66 950	K	961	}	788		3,14
	(Sab-divisional Officers	***	••• •••	1,			.316		37
jápur .	Mámlatdárs	•••	*** ***	1	1,024	} -	, 310 952	·	2,64
	(Sub-divisional Officers		*** **				351		-,
bárwár .	Mámlatdárs		••••••••	k	1,290	}	1,089		1,7:
a 141 -	(Sub-divisional Officers	* ***				$\left \right $	309		2,54
olaba		***		{	1,553	12	1,159		18,89
atnágiri "	Sub-divisional Officers	**1		L	•	le.	_,=00 503	{	1,60
acuagiri "	Mánilatdárs	•••	144 14	١X	1,337	1	1,128		2,28
ánara .	Sub-divisional Officers		••• ••	.		c	. 301		. 2,93
	Mámlatdárs		`		1,419	}	1,222]	6,75

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Statement III showing the test of Village Officers' and Circle Inspectors' work

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A-continued.

by Sub-Divisional Officers and Mámlatdárs in the Districts during the year 1916-17.

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umber of surv which crop a record was	nd tenancy	Number of		
Village Officers' work.	Circle Inspectors' work.	villages in which birth and death registers were checked.	Number of entries checked in Village Forms VI and VII.	Remarks.
WOLK.	WUIEt	• •		1
5	6	7	8	9
		·		
1,996	416	306	2,230	· •
6,903	2,474	452	9,005	
1,021	891	243	2,119	
6,813	1,327	485	7,930	
2,540	248	178	3,118	
3,617	1,934	405	5,225	
6,787	142	252	5,206	
4,289	978	874	8,545	
5,897	1,303	420	9,563	
8, 807	3,768	711	, 84,472	
7,220	6,441	827	9,292	
13,161	2,646	882	37,636	
1,841	397	• 231	. 4,478	
5,085	2,148	1,282	16,070	
1,295	10	279	2,717	
6,178	1,591	. 911	15,342	
1,124	451	269	2,485	
5,192	2,082	1,5387	25,517	
1,959	35	403	5,891	
5,109	2,508	1,008	97,788	
1,984	411	436	5,077	
7,281	1,953	957	14,494	
1,616	., 51	353	4,270	
3,757	627 _r	543	10,155	
975	2,057	290	9,181	
7,602	10,418	1,242	68,842	
2,740	506	325	5,989	
4,197	2,794	. 716	8,387	
3,516	186	262	5,129	
3,823	1,140	• 819	- 17,049	
1,514	614	221	1,476	
8,086	2,629	864	10,303	
200	127	218	1,267	
3,646	1,744	934	15,974	
669	109	548	8,350	
2,697	731	1,116	15,791	
3,503	2,853	221	5,144	
10,434	4,796	1,104	46,721	

F. ANDERSON, Settlement Commissioner and Director of Land Records.

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APPENDAT Statement IV showing the details of work done by the Ny

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			ber of						op and Wa	iste Inspe	etion num	bers chec	ked.		
			lages District.	Number of days devoted	Number of days	Number of Circle	Number	Ea	rly.	L	ate.	W	aste.	Xuu'a	
District.		Total.	Inspect- ed.	to all kinds of inspec- tion.	devoted to test work.	tore	Inspec-	of Ciroles.	Circle Inspec- tors' work.	Village Account- ants' work.	Circle Inspec- tors' work.	Village Accoant- ants' work.	Circle Inspec- tors' work.		of Doucdary Marks esault. ed.
1		2	8		5	6	7	8	9	10	11	12	13	14	
hmedab ad		459	245	139	140	18	- 18	1,212	3,073	154	236	110	383	5,271	
laira 🗸		529	152	127	36	21	21	192	1,276	•••	49	16	95	99)	
anch Maháls	•	430	144	129	158	. 14	13	952	200	599	. 83	168	31	3,251	
roach .		401	178	179	160	14	14	518	530	274	291	92	95	3,155	
urs t	•••	820	286	218	218	24	23	857	554	590	400	186	103	1,61	
há na		1,621	394	323	823	37	37	90	1,432	141	41	•••	• 149	14,64	
ast Khándesh	•••	1,501]	272	168	187	43	43	852	310	207	-207	. 116	92	4,5	
Vest Khandesh		1,215	239	152	152	. 34	34	236	361	160	199	88	133	6,0	
ásik	• • •	1,6 66	254	155	145	38	33	223	1,353	24	627	, 8	26	2,7	
hmednagar	.	1,375	104	112	83	48	48	248	` 87	- 73	87	•••	•••	5	
0008	•	1,176	165	145	121	85	31	110	211	172	320	· ' 4	24		
holápur	•••	700	257	217.	179	20	_16	•••	703	548	1,415	87	175	1,	
iti ra	•••	1,242	151	135	134	35	85	117	302	7	7	***	•••	8,	
elgaum		961	156	146	78	. 26	26	21	124	19	137	•			
ijápur	•••	1,024	159	102	47	41	32	194	467	134	491	· 5	} .	ł	
nárwár		1,290	195	91	22	41	41	64	210	35	641		25		
olába .		1,553	107	- 105	71	-83	83	191	242			4	••••	t	
stoágiri	44.	*816	70	82	25	- 21	21	. 113	141	14	18	5	. 8	- -	
áda ra	•••	1,419	135	137	. 88	32	32	85	795	94	66		9		

• Government villages only: † Information not available.

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A-concluded.

Inspectors of Land Records of the Districts during the year 1916-17.

Entries in the Return of Popula-	Entries in the Birth and	Number	of surve	y numbers		Number of entries in Village Forms	Number of Village Account- ants	by the Survey	Táluka Forms XX to	worke	Number of entrics in Village Form	
tion and Agricul- tural Stock tested,	Death Register tested,	Measured by the Circle Inspec- tors.	Classed by the Circle Inspec- tors,	Measure- ed by the General Duty Inspec- tors,	by the	VI and VII tested.	examined in final test.	ment examin- ed in measure- ment work,	X XIII tested.	inspect- ed.	XVI inspect- ed.	· ·
15	16	- 17	18 ~	19	20	21	22	23	24	25	, 26	27
	8,757	17	` •••	7	15	26,866	·		All	1.1	131	· ·
519	332	52	21	16	. 2	2,486	•••	•••	Do.	•••	169	
	145	25	5	7	2	2,404		•••	Do.	***	341	
· ,14	6 79	22	7	11	. 7	6,044]	}	•••	•••	312	
••• **	766	51		- 7	. 2	2,352		***	•••••	206	·]	
974	1.666	26	13	4	28	10,625	100	•••	•••	•••	465	
, , ,	1,659	. 141	4 · •••	9	. 2	6,236	•••			 *	972	
	" 86 6	20	747	12	2	3,770	•		A 11	•••	291	
			•	2	4	8,353	• •		-	· 2	54	•
, 101	1,218	80	•=• `			0,000	-		8		1	
•••	225	96	•=•	3	2	2,892	•••	ī.	3	•44	•••	
•••	- 452	, 91	•	6	•••	1,603	- 	••••	, 1418	3	16	
1,734	876	31		16	4	4,775		•••	· •••	. 7	624	
•••	776	49	•••	18	3	4,317	·	•••	2	1		
	578	- 46		70	5	3,592	4#0	•••	ţ	·	13	
€02	1,068	34			1	3,368			2		4	
***	1,089	81	• • •	6	• 1	1,578		•••		.11	111	
73	467	27	• • • •	3	7	437		•••	•••		*	
3	. 13	30	· 2	1	. 8],451		•••	• • •	••••	8	
731	940	65	•••	, 5	, 19	2,768			5		39	

‡ Examined form XX in 4 tálukas.

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F. ANDERSON,

Settlement Commissioner and Director of Land Records.

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Part III of the Land Revenue Administration Report of the Province of Sind for the year 1916-17.

No. 3416 of 1917.

REVENUE DEPARTMENT: Office of the Commissioner in Sind, Government House, Kardchi, 26th November 1917.

During the year revised settlements were introduced in Jati, Sháhbandar, Sujáwal and Mirpur Bathoro Tálukas of the Karáchi District, Hiral tract comprising 32 dehs of the Pithoro Táluka in the Thar and Párkar District, and Thul, Khandhkot and Kashmor Tálukas in the Upper Sind Frontier District. Appendix A gives the estimated financial results of the new rates sanctioned.

Proposals for the resettlement of talukas Umarkot, Digri, Jamesabad and the Jamrao tracts of the Mirpurkhas, Sinjhoro and Sanghar Talukas are under consideration.

2. The work turned out by the Head Record Office is detailed in Appendices B and C. The total number of correction cases disposed of (Appendix B) was 4,877 out of 4,986 as against 5,945 out of 6,145 in the previous year. Only three mistakes were discovered in the entries relating to 1,184 survey numbers examined in the office of the Superintendent, Land Records. The amount of arrears of correction work at the close of the year was insignificant. The number of land registers prepared was 275 pertaining 'to four talukas. Besides, 95 copies were made to replace worn out survey registers in the Record Office. There remain five talukas recently resettled including Hiral tract of the Pithoro Taluka for which these registers have yet to be compiled. The number of maps prepared for supply to Government Officers and to private petitioners on payment was 5,523, out of which 4,134 were supplied during the year and the remaining 1,389 are kept in reserve for use of officers to be shortly employed on the classification of lands commanded by the proposed Right and Left Bank Canals. The number of maps corrected and kept ready for use as office copies or for future reproduction was 862. The total outturn by the Mapping Branch thus amounted to 6,385 maps as against 7,990 in the preceding year. The decrease of 1,605 is due to the Manager, Incumbered Estates' indent being much smaller than the one in the previous year. Appendix C relates to the work done in the Record Office in consequence of new measurements carried out by the village establishments. The number of survey numbers received for examination and entry in the Record Office declined by more than 5,000 to 20,448. It is satisfactory to note that the percentage of survey numbers returned without entry owing to errors fell from 48 to 37. The improvement is apparently due to instructions issued by the district officers and the Superintendent as a result of the remarks of Government contained in their Resolution No. 6304, dated 24th August 1916. Further improvement in this respect and in the general efficiency of the tapedars may be expected when the proposals submitted by the Commissioner in July last for the improvement of the status and the prospects of the village staff are sanctioned.

3. The indexing work is now done by a temporary hand whose entertainment for one year more was sanctioned in Government Resolution No. 10378, dated the 30th October 1916.

4. The annual inspection of the Record Office was conducted by the Superintendent, Land Records, in May and June last and the result was reported to be satisfactory.

5. As in the previous year, no survey parties were organized for the measurements of waste lands owing to financial stringency, but the department was engaged in the prosecution of the city survey operations previously commenced in November 1915 under the supervision of the Special Mukhtiarkar at Shikarpur. The road measurement work in the town proper was practically completed and the number of houses surveyed amounted to 12,400 · leaving 3,500 houses still to be measured at the close of the year. An Enquiry Officer was appointed with effect from 1st February 1917 to enquire into titles.

A 32-7

He completed his work in respect of 5,400 properties. After the close of the year the enquiry work was considerably hampered by malaria and by the exodus of the people as a result of a severe outbreak of cholera in the town. Survey and enquiry work came under the inspection of the Superintendent, the Collector of Sukkur and also the Director of Land Records. In the latter's opinion the survey work was being satisfactorily done in spite of exceptional difficulties arising out of the conditions prevailing in the town.

6. In the course of his tour the Superintendent tested 139 survey numbers measured by the village staff and discovered mistakes in 10 cases. He also discovered some cases of inordinate delay in measurement and in the despatch of measurement papers to the Record Office and brought those to the notice of the district officers concerned.

7. The four weeks' survey class for revenue officers was, as usual, held in August. It was attended by two Assistant Collectors, one Deputy Collector and two Mukhtiarkars who were examined by the Superintendent. All of them passed the test and were granted certificates. In addition, four taluka head munshis and graduates and two munshis from the Record Office successfully passed the test after the usual training for three months.

8. The total cost of the Land Records Department for the year amounted to Rs. 58,996 which includes Rs. 20,184 spent in connection with the city survey at Shikarpur.

9. During the year, the Record of Rights was not newly introduced anywhere in the Province of Sind. In four dehs of the Sinjhoro Táluka in the Nawabshah District, which had formerly been treated erroneously as purely alienated dehs but which were partly alienated and partly unalienated, the record was ordered to be introduced and the rough copy is still in course of preparation. The rough copy of the record prepared for the town of Nawabshah in the previous year could not be fair copied during the year under report owing to the late receipt of the printed standard forms newly sanctioned by Government. The work is now in hand and is expected to be finished shortly. The promulgation of the record prepared in the previous year for nine dehs newly formed in the Rohri Táluka of the Sukkur District is awaiting the decision of some disputed cases, arising out of the record. The Superintendent examined 3,940 entries in 95 villages.

The record was due for rewriting in the Kotri Táluka of the Karáchi District, Rato-dero, Mirokhan, Mehar and Kakar Tálukas of the Lárkána District, Shahdapur, Nawabshah and Sinjhoro Talukas of the Nawabshah District and in the Pithoro Táluka of the Thar and Párkar District. The work was however actually carried out in the Kotri Táluka only. In Sháhdádpur and Pithoro Tálukas it was commenced during the year and is still in progress. In Nawabshah the rewriting was not considered necessary on account of the small number of mutations, while in Sinjhoro, the work will be undertaken on the introduction of the revised settlement, the proposals for which are under consideration. The work in Rato-dero; Mirokhan, Mehar and Kakar was suspended for a year as the Mukhtiarkars of these talukas omitted to comply with some preliminaries laid down in the Manual of the Record of Rights in Sind. The measurement work of sub-divisions of survey numbers is kept up-to-date and the sub-divisions have now been given the status of survey numbers for the purpose of assessment, remission and fallow rules in all the districts of the Province. This concession is much appreciated by the occupants. There were more than 1,500 cases for default in reporting acquisition of rights and the fine imposed aggregated roughly Rs. 4,500.

11. The record was on the whole fairly well maintained during the year and received adequate attention at the hands of the officers concerned. As a result of the issue of the Record of Rights Manual in the previous year, the principles underlying the record are now better understood by the village officers and this is reflected in the improvement of their work.

H. S. LAWRENCE,

Commissioner in Sind.

THE CHIEF SECRETARY TO GOVERNMENT,

Revenue Department, Bombay.

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APPENDIX A.

Paragraph 1.

	District and its area.	Táluka aud area for settlement during the year.	Area settled during the year.	tring the Uld assessed Revis		Percentage inorense.	Percentage decrease.	Re- marks.
	Agres.	Aeres.	Acres.	Rs,	Ra.			
	ſ	Jati 1,880,498	1,380,493	1,21,759	1,94,451	10-43		
	Karichi 7,527,297	Sháhbandar 888,038	88 9, 039	98,038	1,04,738	6•83		
i	Karáohi 7,527,297	Sajáwal 175,768	175,769	1,21,190	1,33,199	9 9 9 8	****	•
	•	Mirpur Bathoro 172.282	172,262	1,49,254	1,68,751	6-88		
	Thar and Parkar 8,727,495	Pithoro (Hiral tract) 54,233	54,293	62,461	72,998	10-86		
	· · · · · · · · · · · · · · · · · · ·	Thul \$17,821	317,821	2,92,778	8, 29, 641	12-59	-64989	
	Upper Sind Frontier 1,709,972	Kandhkot 365,836	855,836	2,41,572	2,71,398	12-84		
	· · · ·	Kashmor 343,535	343,538	79,673	` 86,007	8.08	*** ***	

APPENDIX B.

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(Vide paragraph 2.)

	· · ·	Number of cases (including arrears) necessitating correction in Survey Records.						Number of cases returned duly corrected.				Number of cases remaining for correction at the end of the year.				from Surrey						
	¥ear.	•	Eurvey Registers.	English. W	Sindhi.	List of Karia rebates.	Burvey Registers.	English.	Sindhi.	List of Karja rebates.		Survey Registers.	English.	Sindhi.	List of Karia rehates.	Number of extracta fr Registers supplied.						
	t	,	2	8	4	5	6	7	8	/ 9		10	11	12	13	14						
• •	1915-1916	41	3, 029	144	2,823	149	2,925	144	2,728	1	18	101	•••	95	1	\$ 15						
	1916-1917,	•••	2,480	86	2,349	72	2,421	86	2,298		72	59		50	•4•	1,007						
		•	Surv	umber (ey Regi pared s pplied (sters	cord Office.	Number of Maps supplied Maps prepared for printing.						ce torn office									
	Year.	•	Village Establishment.	fficers.		prepared for Re	prepared for R	prepared for R	prepared for R	prepared for R	prepared for R	Registers prepared for Record Office.	Free of cost to Village Establiahment.		- nent to Village shment.	To District Officers.			itioners			Maps prepared to replace copies in the Record Office,
		•	Village Ee	District Officers.	Petitioners.	Registers	Free of Establi		On payment to Establishment.	English.	Sindhi	English.	Sindhi.	English.	Sindhi.	Mape pr copice j						
	1		15	16	17	18	19		20 🧬	21	22	23	24	25	26	27						
	1915-1916		43			607	3,]	173	96	166	1,823	55	1,647	17	700	808						
			I .		l	1 ° -	i .	25	205	78	1,787	9	810	22	349	491						

HOTCHAND CHANDUMAL,

for Commissioner in Sind.

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APPENDIX C.

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District.		Number of tálukas in which Survey Work was done.	Number of Survey Numbers received for examination and entry in the Survey Records, including previous year's balance.	Number of Survey Numbers returned after making entries in the Survey Records, f. s., maps and registers.	Number of Survey Numbers returned without entry in the Survey Records with list of errors.	Arrears at the end of the year.	Remarks
1		2	. 3	4	5	6	7
Karáchi	•••	10	5,941	3,744	2,197	***	
Hyderabad	•••	7	3,831	2, 285	1,546	ł]
Sukkur		8	3,418	2,227	1,191		1
Lárkána		11	2,412	1,435	977		-
Upper Sind Frontier	•••	5	1,212	847	365 .	•••	ļ
Thar and Párkar	•••	9	1,175	682	493	•••	{
Nawabshah	•••	7	2,459	1,588	871	•••	
Total for 1916-191	7	57	20,448	12,808	7,640		
Total for 1915-191	6	59	25,588	12,743	12,305	- r 540	

(Vide paragraph 2.)

APPENDIX D.

Statement showing the test of Topadars' and Supervising Tapadars' inspection work by Sub-Divisional Officers in the district during the year 1916-17.

Name of District,		Number	of debs.	Number of dehs	Number of Survey Nu and tenancy reco	mbers in which crop rd was checked.	Number of debs	Number of entries	Bemarks.	
		Total in the district.	Number visited during the year.	in which boundary marks repair was examined.	Tapadars' work.	Supervising Tapadare' work.	in which birth and death registers were checked.	checked in Village Forme I-C and I-D.		
· 1		2	8	4	5	6	7	8	9	
Karáchi	,	797	449	26	6,389	676	153	:2,158		
Hyderabad	·	925	693	75	12,530	2,614	87	14,673		
Thar and Párkar	••••	963	776	76	31,540 A. g. + 1,563 35 Bigoti mea- surement.	4,136	890	11,856		
Nawábsháh	-	761	494	63	14,063	2,603	108	5,817		
Lärkäna		754	626	242	12,045	936*	163	13,641	•Record of this test wa not properly maintained	
Bukkur		711	422	- 48	11,020	2,838	211	8,806	200 200 100	
Upper Slad Frontie	9 F .	430	406	56	8,895 A. g. + 943 10 Bighoti mea surement.	1,307	148	861	-	

HOTCHAND CHANDUMAL,

for Commissioner in Sind.

BOMBAY : PRINTED AT THE GOVERNMENT CENTRAL PRESS.

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Department of Land Records. Report of the — in the Bombay Presidency, including Sind, for the year 1916-17.

· GOVERNMENT OF BOMBAY.

REVENUE DEPARTMENT.

Resolution No. 8994.

Bombay Castle, 3rd September 1918.

Letter from the Settlement Commissioner and Director of Land Records No. A.D.-44 dated 25th February 1918-Submitting, for approval, a proof copy of the Report of the Department of Land Records in the Bombay Presidency for the year 1916-17; and making remarks.

Government memorandum^{*} No. 2897 dated 25th March 1918 to the Settlement Commissioner and Director of Land Records.

Letter* from the Settlement Commissioner and Director of Land Records No. A.D.P.R.IV dated 10th May 1918.

RESOLUTION .--- The report submitted by the Department of Land Records on the work of the year 1916-17 gives evidence of continued activity and enterprise within the wide field over which its various operations extend. Expansion in some directions has been retarded by the limitations imposed on expenditure during the war, but on the other hand considerable attention has been paid to the improvement of methods of land survey and record of titles in order to secure greater expedition and accuracy and to effect reduction in the cost of operations. Amongst the improvements recently introduced or further extended during the year may be mentioned the minor triangulation system of village survey, which provides a simple and inexpensive survey of occupancies based on a permanent framework. The principal advantage claimed for this system is that it permits of the recording of changes with greater ease and promptitude than was possible under the more complicated and less stable system followed by the old Survey Department. The whole procedure of survey, record of title to property, and preparation of maps for urban areas has undergone complete revision, and the new methods are set forth in full detail in a Manual of City Survey prepared by Mr. Anderson and published by Government. A third important improvement which has been gradually evolved during the last few years is the plane table system for the survey of sub-divisions of survey numbers. It is now established beyond doubt that the results obtained thereby are more accurate, less expensive and of greater utility both to the land holder and to Government than the results of the methods of survey hitherto followed.

2. Every succeeding annual report bears testimony to the increasing reliability and popularity of the Record of Rights. The administrative advantages which followed from its successful introduction in Government villages led to the extension of the record to agricultural lands in inam villages and to surveyed towns and village sites. During the year under review the record was promulgated in numerous inam villages and introduced in the surveyed sites of Godhra, Sholápur, Bársi, Ahmednagar and Gadag. The accuracy of the Record of Rights of agricultural holdings increases with the extension of the sub-division survey which provides for each holding, however small, an accurate plan giving the correct area and the proportionate assessment worked out on scientific principles in place of the rough estimates hitherto entered in the record. At the same time the inquiries made on the spot by the surveyors in the presence of the cultivators afford material for the revision of the record should follow the completion of the survey, and it is satisfactory to note that where this arrangement has been effected, a very high standard of accuracy has been attained. The re-writing of the record was in progress and was completed in several tálukas in all three divisions of the Presidency proper, and this revision appears to be well up-to-date save where, as indicated above, revision operations have been postponed pending the completion of the sub-division survey. In the review of last year's report Government expressed the opinion that the present methods of quinquennial revision could, in all probability, be greatly improved in the light of accumulated experience. They trust that the Commissioners will not suffer this question to escape their attention. There are indications that the form of the record requires further adaptation to the peculiar and complex conditions of holdings in the Konkan, but it is probable that no definite proposals can be formulated until the completion of the sub-division survey.

3. The phalni parties displayed considerable activity in the measurement and mapping of sub-divisions and in the distribution of assessments. The value of this survey as ancillary to the accurate maintenance of the Record of Rights has already been referred to. It has a further utility in exposing the inaccuracies of measurement or classification which may have occurred during the settlement surveys. During the year under review the total number of sub-divisions dealt with was 5,04,196 compared with 4,85,610 in the preceding year. It is satisfactory to note that the maintenance of this survey is receiving due attention. In the Central Division some 11,800 new sub-divisions which were made since the completion of the first operations were dealt with by special measurers, and though separate figures are not given for the other divisions of the Presidency, it is presumed that the same measure of attention is being paid to maintenance in these areas also. The Director is confident that the work of maintenance can be undertaken by each talati for the group of villages in his and with this object in view efforts are being made to charge, impart the necessary instructions. How far the maintenance can be safely entrusted to this agency is still a matter of experiment, but it would appear that if the method proves successful, the operations will be conducted with greater celerity and at less expense to the land-holders than under the present system of itinerant surveyors. The sub-division survey in the Northern Division has been completed in the Surat and Broach districts, in the greater part of Kaira, and over a considerable area of Thána. It is estimated that two or three years will be required to complete the work in this Division. In the Central Division, Khándesh, the greater part of Poona and Nagar, and portions of the remaining districts have come under the survey, which it will take about five years to bring to a close. In the Southern Division the work is complete in Dhárwár, Bijápur and the greater part of Ratnágiri and in parts of Belgaum and Kolába. In this Division there remains work for the phalni parties for three years. After the completion of these operations it will be possible, if conditions then permit, to take up the important work of mapping and of recording rights in holdings in village sites.

The survey of the larger towns with the consequent inquiry into 4. titles and the preparation of property registers and maps was continued during the year. In the Northern Division no new surveys were introduced, but the inquiry work in Nadiad, Anand and Borsad was complete, and a revision of the old survey of Ahmedabad was undertaken. In the Central Division city surveys were introduced in Násik and Bhusáwal in accordance with the improved system, while inquiry work was completed in Manmád and almost completed in the city of Poona. In the Southern Division the city survey of Ránebennur was completed. New surveys were introduced in Sháhápur (Sángli State) and Byádgi, while the enquiry work was brought to a close in Belgaum. Proposals were also submitted for the resurvey of Dhárwár, as neglect to maintain the records of the old survey had necessitated a complete revision. It is satisfactory to observe that due attention is now paid to the proper maintenance of the records after the completion of the survey and enquiry operations. The fate of the neglected surveys in Bombay, Poona, Ahmedabad, Surat and other towns, which were dealt with many years ago, indicates the importance of recording with promptitude all alterations which may occur within the surveyed area.

5. The survey of inam villages and estates, which constituted the proper duty of the permanent field parties, has since the outbreak of war been curtailed for reasons of economy, and the parties have generally been drafted to city survey and sub-division work, the cost of which is recoverable. During the year 1916-17 the principal settlement work performed was the survey of 17 talukdari villages in the Northern Division and of one táluka of the Miraj (Junior) State by the Central Division field party. In the Southern Division the party carried out measurement and classification work in 29 villages of three tálukas of the Kurundwád State. Settlement reports for Mátar and Mehmedabad tálukas in the Kaira district were submitted to Government, and the second revision settlement was introduced in the Máwal táluka of the Poona district. The Divisional Superintendents also submitted reports dealing with the settlement of 39 inam villages in the Presidency proper, while settlements (original or revision) were introduced into 92 inam villages.

6. The district survey offices continued to work satisfactorily. In many districts heavy work was imposed on the staff in connection with the disposal of the records of the sub-division survey and the corrections required by the discovery of errors in the old survey papers. As usual the work of Circle Inspectors is variously reported on, but the majority of opinions points to an improvement in their efficiency. By a recent revision of the rules governing the subordinate revenue establishment it is now possible for selected men to pass from the lower to the upper branch, and the ordinary Circle Inspector has thus more incentive towards good work than in the past. The Commissioners have been directed to consider what further improvements can be effected in the Revenue establishments, and it will be convenient at the same time to enquire whether more satisfactory arrangements can be made to organise an efficient staff of Circle Inspectors.

7. The Governor in Council desires to record his appreciation of the zeal and enterprise shown by Mr. Anderson in the administration of the departments committed to his control.

8. In Sind, revision settlements were introduced during the year into seven tálukas and a portion of an eighth, while proposals for the settlement of three whole tálukas and parts of three tálukas under the Jamrao Canal were under consideration. The work of the Record Office is satisfactorily reported on, and it appears that a marked improvement has been effected in the survey work of the tapedars, as the percentage of cases in which errors were detected fell from nearly 50 in the previous year to 37 per cent. in the year 1916-17.

Government have now under their consideration certain proposals directed towards the amelioration of the position and prospects of the village staff in Sind, and it is hoped that, under the improved conditions, a higher standard of efficiency will be attained. Amongst other work done by the Department in Sind may be noticed the city survey and enquiry which was in progress throughout the year in Shikárpur. The Record of Rights was due for re-writing in eight tálukas, but the operations were carried on in three tálukas only, postponements being sanctioned elsewhere for various reasons. The Record is reported to have reached a fair standard of accuracy. The introduction of the Record of Rights Manual and a regularised imposition of fees for failure to register mutations appear to have materially contributed to this result.

A. F. L. BRAYNE,

Under Secretary to Government.

and

G. R. No. 8994, R. D., dated 3rd September 1918.

The Commissioner in Sind,

The Commissioner, N. D.,

To

The Commissioner, C. D.,

The Settlement Commissioner Director of Land Records, The Accountant General, F. G. H. Anderson, Esq., I.C.S., The Government of India.

The Commissioner, S. D., All Collectors, including the Deputy Commissioner, Upper Sind Frontier,

*The Government of India, *The Under Secretary of State for India.

*By letter.

No. of 1918.

Copy forwarded for information and guidance to