Charles !! \hat{z}_1 OF THE DECCAN REVENU For the Year ending 31st October 1398. •

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No. 🛔 or 1899.

From

To

THE SURVEY COMMISSIONER AND DIRECTOR, LAND RECORDS AND AGRICULTURE,

Bombay ;

THE SECRETARY TO GOVERNMENT,

Revenue Department,

Bombay.

Poona, 14th January 1899.

SIE,

I have the honour to submit the Annual Progress Report of the Bombay Revenue Survey Department for the year ending 31st October 1898:

2. Mr. Muir-Mackenzie, the permanent incumbent of this office, was absent about 7 months of the year, first on deputation to Europe on special duty as per Government Resolution No. 6922, dated 17th September 1897, and secondly on appointment as Secretary to Government under Government Resolutions No. 3192, dated 6th June 1898, General Department, and No. 4722, dated 23rd August 1898, General Department. Mr. Hearn and Mr. Fforde acted for him. The exact period for which each officer held charge is shown in the following statement:--

From	To		Period.	Nobe of Officer.
15th January 1898	. 14th January 1898 . 12th June 1898 . Slat October 1898 . Total	····	Y. m. d. 0 2 14 0 4 28 0 4 19 1 0 0	Mr. Hearn. "Muir-Mackenzie. "Fforde.

3.	The strength and	constitution of the	department	are	exhibited :	in	the
followin	g statement :				•		

Barvey.		Number of Establishments.	Number o in cha Retablist	rge of	Rank of Hood of Servey.
			European.	Native.	· · · · · · · · · · · · · · · · · · ·
Gujarát		8	1	8	Deputy Superintendent.
Deccan	-	2	1	• 2	Superintendent.
Kenkaa	• •••	. 10 *.	8	10	Deputy Superintendent.
Marátha States	•••	8	• 1	8	Superintendent.

· Including Phálai Zatablishment.

Gujarát Survey.

4. Mr. J. McNeill, I. C. S., who was appointed to succeed Mr. Seddon on the latter's departure on leave on medical certificate, left the Survey Department at 3 1301-1 the end of May 1898, and Mr. Cole, the present Deputy Superintendent, was appointed to the charge of the Gujarát Survey. Mr. Cole has submitted the Progress Report for the year, his rank being that of Deputy Superintendent. The Superintendentship was abolished as no longer necessary.

5. The number of parties at work during the year under report was three, as against six in the previous year, three having been reduced as explained in paragraph 6 of the Annual Report for last year.

6. The operations extended over two districts, Broach and the Panch Maháls, the revision survey operations in Surat having all been completed in the previous year. By the end of the season all the field work outlined in Mr. Ozanne's forecast was completed, and also the work in the talukdári villages in the Panch Maháls, which was proposed to be commenced after 1900 for reasons explained in paragraph 3, of Appendix C to that forecast. The only work now remaining for completion is recess examination and settlement. It is estimated that the recess work remaining will be completed by the end of December 1899, when any miscellaneous field work remaining will be taken in hand.

• 7. The outturn of work is exhibited in the usual tables below :----

6

Measurement.

i Tear.		Meliured.	•	Average cost	, TR	Average . error per cent,	
1 1 1 1	Fields .	Waslas.	Aores, per Aore.		Fields.	Acres.	Acres.
	٩			Rs. a. p.		•	▲ .`g.
1896-97	15,910	98,585	*884,050	*0 0 5	2,031 (12·7)	2,563 (9 ⁻ 3)	. 0 30
1897-98	8,387	19,904	*351,2 02	*0 0, 1	621 (18·3)	1,223 (16·1)	0 23
Increase	 1 2 ,528	 78,681	 532,848			 1,340	0 7

Classification.

	T	ر اف	Cia	ilid,	Average cost	Tas	tid.	
	Year.		Pields,	Acres.	per Acre.	Fields.	Acres.	Average difference.
			1		Ra. a. p.			Soil. Water.
, 1896- 97	•••	4	95,893	*702,976	*0 0 _, 11-	24 ,047 (25 [.] 0)	52,152 (82·0)	l pie 🛔 pie
1897-98	•••	·	66,171	*941,101	•0 0 8	19,292 (29·1)	5 3,895 (22·5)	1 pie 1 pie
۰.	Increase		*	238,125			21,748	0 i pie
	Ч Decrease	•••	1 9,722	•••	003	4,755		•

8. As explained in previous reports the areas, of which the measurement has been confirmed without re-examination, have been included in the above tables.

9. Measurement.—The work to be done being limited was carried out by the classers, as explained in paragraph 7 of the Deputy Superintendent's report. There is no reason to suppose that the outturn of work was short of the average attained in the previous season.

10. The test taken by the superior officers was ample. It apparently includes arrears of test on previous season's work (vide paragraph 11 of last year's report). The general accuracy of the work was shown to be satisfactory.

11. The cost per square mile, taking oredit for the acreage, the measurement of which was confirmed, was Rs. 4 as against Rs. 17 of the previous year. The decrease is due to the increase in the proportion of the area confirmed.

12. The proportion of non-working to working days was higher than in the preceding year. The increase in the number of non-working days was chiefly due to the extra travelling entailed, which was unavoidable. The very large increase under the head of boundary-mark inspection among the working days is due, as explained in paragraphs 26 to 28 of the Deputy Superintendent's report, to the substitution of khunts for bandhs in villages subject to annual flooding in the rains in the Broach District. The work was undertaken at the instance of the Collector, who stated as follows :--

"It would indeed be a pity if the survey parties were to leave the district without carrying out this work simply because in a few villages khunts may not have been ready by the time notified. Such a course of action will perpetuate the nuisance and give rise to bitter feelings which may well be assuaged by a little patience."

The Assistant Superintendent in charge of parties was suthorized to make whatever arrangements might seem necessary in communication with the Collector. The results of the work have already been communicated to the Collector.

13. The recess work was duly completed, with the exception of the preparation of fair maps as shown in Statement No. IV. This will be undertaken along with the other recess work that remains to be done as explained in this office letter No. $\frac{1}{10}$, dated 4th instant.

14. Classification.—The season's outturn appears on the whole satisfactory, notwithstanding the reduction in the number of hands employed and in the days available for field work. The cause of the latter reduction was the extra time occupied in doing the necessary office work referred to in paragraph 22 of the Deputy Superintendent's report and in travelling. The increase in the days lost from fon-co-operation of villages points to defective supervision and might perhaps have been avoided.

⁷15. Owing to the large area of which the classification was confirmed the cost per square mile decreased from Re. 87 in the previous year to Rs. 27.

16. The test taken was satisfactory.

* 17. The recess work could not be completed as the establishment had to work off arrears of last season. The work remaining will be completed in the manner already explained in this office letter referred to in paragraph 13 above.

18. Settlement.—For reasons explained in paragraph 39 of the Deputy Superintendent's report, no settlement work was performed during the year. Mr. Cole joined the survey in the rains and was unable to submit proposals until he could visit the talukas to be reported on. Mr. Mehta, his Assistant, having to supervise field work could only undertake settlement work in the rains.

As explained in paragraph 21 of last year's report, the work is not urgent. The settlements in band are important and require careful consideration. The Deputy Superintendent and his Assistant are now occupied with the reports for Párdi, Bulsár and Jalálpur, and there is no fear of the work not being completed in due time.

•

19. The cost of the survey under the usual heads is shown in the table below :---

Yest,		Measuremens.	Classification.	Settlement.	Miscellaneous.	Total.	
· · · · · · · · · · · · · · · · ·		Rs.	Rs.	Rs.	Rs.	Rs.	
1896-97	•••	23,755	41,850	. 32,272		97,877	
1897-98	•••	1,951	39,433	29,596	803	71,783	
Increase			••••		803	•*••••	
Decrease	•••	21,804	2,417	2,676	; 	26,094	

20. The survey has lost a valuable officer in the death of Head Surveyor Bápálál Purshotam, mention of which has already been made in paragraph 24 of last year's report.

Deccan Survey.

21. Mr. Fforde held charge of this survey up to 30th June 1898, from which date the rank of the head of this survey was reduced to that of Deputy as before, and Mr. F. B. Young was appointed to act. Mr. Young has accordingly submitted the Progress Report. The other changes in the *personnel* are fully stated by the Deputy Superintendent. Mr. McIver, who was transferred to the Konkan Survey *vice* Mr. Cole appointed to the charge of the Gujarát Survey, and Mr. J. W. Whitcombe, Assistant Superintendent in the Marátha States Survey, who was transferred to the Deccan Survey in place of Mr. McIver have since the close of the year reverted to their respective appointments.

22. No change in the number of establishments was made, but the average strength was increased by 5 measurers and 1 classer.

23. The work accomplished by the parties during the year was as shown

			1	CHARLON	V <u>1144</u> 08.	
District.	Tilum.		Mean	ared,	Class	
•			According to Revision Survey.	According to 1st Survey.	According to Revi- sion Burvey.	According to let Burvey.
Khándesh	Nandurbár (inclusiv of Navápur Petha.	70	71 148 34	***	32 	•••
· (Násik _{s∵}	Dhulia Kalvan		182 - 19	·	1 , 106	

in the margin. The work in the Nandurbár and Taloda Tálukas was confined to the subdivision of large numbers in the unsettled villages, in pursuance of proposals for the survey settlement of those villages submitted with this office letter No. ⁸/₁₀₀ dated 12th Fébruary 1898. In the programme for the year under report it was intended to complete the Kalvan táluka and to finish as much work in

Pimpalner as possible. The Kalvan taluka was finished as estimated, but much division work referred to above. With a view therefore to ensure the completion of the operations by the prescribed date, the survey has been strengthened by the addition of men transferred from the Konkan Survey since the beginning of the current season,

		MBASURED.		Average	Tas	Average		
Year.	Fields.	Waslas. '	Acres,	oost per Acre.			error per cent. Acres,	
					A. p.			A. g.
1896-97	19,336	108,535	179,023	22	444 (14·2)	1,339 ¹ (15·6)	0 20	
1897-98 {	(a) 2,267 (b) 18,019	18,761 87,314	18,096 233,45 3	} 1 5	307	1,464	0 28	
•	20,286	106,075	246,549		(13·5)	(11·2)		
Increase	950	***	67,526		,	125	0 8	
Decrease		2,460	•••	0 9	187	•••	•••	

24	The following	table shows the	details of	measurement	work :
----	---------------	-----------------	------------	-------------	--------

5

(6) Area actually measured. (3) Area confirmed without actual measurement.

25. Besides the above, the work of breaking up large numbers into manageable sizes was accomplished. In this the parties were aided by Measurer Circle Inspectors, who were deputed by the Collector at the request of this department. The details of this work have been properly furnished separately by the Deputy Superintendent in paragraphs 20 to 24 of his report. The establishments appear, on the whole, to have got through a larger amount of work than in the season previous.

26. The test taken was sufficient and it showed a fair standard of accuracy.

27. The cost per square mile has fallen from Rs. 88 to Rs. 79 owing to increased areas covered and also to causes explained in paragraph 11 of the Deputy Superintendent's Report.

28. With regard to boundary-mark repair, it is satisfactory to notice that, in 94 out of the 96 villages in which measurement work was done during the year, the rayats were induced to erect or repair the marks themselves.

In the original survey no intermediate mounds were erected in the Pimpalner 'I'aluka, but the old boundary lines were found to have been scrupulously recognized and respected by the registered occupants. This showed that the erection of these mounds, required under the Revision Survey rules, was unnecessary in such localities, while it added considerably to the work of the measurers. It was consequently ordered to be discontinued.

29. The recess work was duly completed.

30. Similar details respecting classification are given in the table below :---

•	CLA	BED.	Average	Tze	TĮD.		
Test.	Fields,	A area.	dors.	Fields.	Acres.	Average difference.	
4.4	-		A. p.			Soil.	Water,
1000 07	13,999	139,390	09	365 (13·8)	8,171 (10-5)	9 pies.	l pie.
1997-98	(a) 1,874 (b) 17,971	3 6,010 176,193	} 0 7	(10.0) (19-0)	(100) 1,261 (8·5)	7 Do.	2-pies.
	19,845	212,203		(19.0)	(0.0)		
Increase .	7,846	72,818		•••		0	1 pie.
Decrease		••• •	02	. 9	1,910	2 pies.	

(a) Area sotually elamod.

(d) Area soufirmed without actual elastification.

n 180**1 — 3**

There is no separate classing party, but classers are attached to one of the measuring establishments.

\$81. The outturn shows a satisfactory increase in the number both of fields and acres. .

32. The work was fully tested by the Head Surveyor in charge. The test of the supervising officer, however, did not cover the work done in Pimpalner for the reasons explained in paragraph 29 of the Deputy Superintendent's report. The arrears of test referred to in paragraph 34 of last year's report were disposed of.

33. The cost per square mile has decreased from Rs. 30 to Rs. 28.

84. The distribution of working and non-working days in the measuring branch calls for no special comment. In the classing branch there is a large reduction in the number of working days. This was attributable to the large number of days lost in travelling and could hardly be helped. The recess work in this branch is up to date.

85. The cost of the survey under the usual heads is shown in the table holow :-

	Yma,		Year, Measurement,		Classification.	Settlement,	Miscellaneous.	Total.
1896-97	•		Rs. 24,578	Rs. 6,574	Rs. 20,587	Rs. 9,528	Rs. 61,267	
1897-98	***	•••	82,265	7,535	19,404	7,993	65,197	
· · · · · · · · · · · · · · · · · · ·	Increase Decrease			961	 1,183		8,930	

Settlement.-The details of the work have been given in paragraphs 37 86. and 88 of the Deputy Superintendent's report. The District. Tiluks.

Settlements remaining are those for the two talukas noted in the margin and for isolated Government and

· 2. Pimpalner . Khándesh. Inam villages scattered over the six districts of the Central Division and also one of the Southern Division. In the case of the first taluka the preparation of proposals is already in haud. For the other taluka and the isolated villages the field operations are in progress. Arrangements have been made for the completion of the settlement work in all these villages before 31st October next, the date fixed for closing the work of this survey.

1. Kalvan ... Násik.

37. The results of the year's operations are decidedly creditable to Mr. Fforde and the officers who worked under him.

88. The question of the survey of the Surgana State has already been reported on in detail under this office No. 2, dated 16th January 1898. Ľ

Konkan Survey.

39. The charge of this survey was held by Mr. Hearn till his retirement on the 9th April 1898, except for 21 months when he officiated as Survey Commissioner, during which time Mr. Hudson acted as Superintendent and Mr. Cole as Deputy Superintendent. On the retirement of Mr. Hearn, the Superintendentship was abolished and the survey has since been in the charge of the Deputy Superintendent, Mr. A. G. Hudson, who has submitted the Progress Report.

40. Mr. McIver was transferred to the Deccan Survey vice Mr. Holland deputed on plague duty, and Mr. Sathe replaced Mr. McIver in the Konkan Survey. Towards the end of the field season Mr. Cole was appointed to succeed. to the charge of the Gujarát Survey when the charge of his parties was entrusted to Mr. Wilkins in addition to his own. During Mr. Wilkins' absence on privilege leave in the rains, the charge of the parties was held by Mr. McIver in addition to the settlement duties of the Deccan Survey, Mr. McIver's Deccan perties being supervised by Mr. Whitcombe, who was transferred from the Marátha States Survey. the state of the s

41. The number of establishments, inclusive of the Phálni Establishment, was 10 as against 11 in the previous year. The field operations reached a stage which enabled some reduction of establishment to be made. The only work remaining to be done was the measurement of the Dáhánu Tiluka, which could not be taken up till the middle of January on account of the unhealthiness of the climate. In the beginning of the season, therefore, all the establishments were employed on Phálni operations as sanctioned in Government Resolution No. 7434, dated 11th October 1897, Revenue Department.

42. The operations extended over the four talukas of the Thana Collectorate noted in the margin. By the middle of January all 1. Kalyán. 8. Salsette. the establishments were transformed to the Déhénu

1. Kalyan. 5. Saleste. 2. Bhiwndi. 4. Shábápur. the establishments were transferred to the Dáhánu Táluka, with the exception of the Phálni party under

Mr. Mhasker, which continued its operations until March, when it also was sent to Dáhánu to enable the establishments to finish the work remaining there. Some of the men who were transferred to the Revenue Department as Circle Inspectors had also to be recalled to help in the completion of the work. By the energetic endeavours of the Superintendent and the officers working under him the work in Dáhánu was duly completed.

43. The outturn is exhibited in the tables given below :---

Measurement.

			Maartan,				ge.	Tas	Average	
Yest.		Fields,	Waalaa,	Acres.	coat par		per	Fields,	Acres,	error per cent. Acres.
					·	۸.	 P•			A. g.
1896-97	•••	56,942	144,625	264,314		6	0	7,232 (12·7)	23,019 (8·7)	
1897-98		(a) 19,936 (b) 73,211	318,451 	127,038 145,691	}	6	2	9,829 (4·7)	22,206 (17·4)	***
		93,147	818,451	272,724		•				
Increase		86,205	173,826	8,410		0	2	2,097		
Decrease		•••	•••					•••	818	•

(a) Area sotually measured. (b) Area confirmed without actual measurement,

Phalni Work.

•	CLAI	.	Average cost per Acre,	.Тчатар,			
Year,	Fleids.	<u>A</u> aw,		Fields.	A cr 10 .	Average difference.	
•			A. p.	1		Rabi. Varkas.	
1897-98 •• •.	122,681	107,786	8 1	13,829 (11·2)	12,583 (11 [.] 7)	1 pie. 1 pie.	

44. Besides the above work, revision classification was done in one village left over last season for reasons explained in paragraph 37 of the Deputy Superintendent's Report.

45. The outturn under measurement shows a large increase in fields and waslas, but a small one in acres. This is due to the preponderance of rice and rabi areas, both "measured" and "confirmed." To this is also attributable the increase in the cost per square mile, which is Rs. 247 as against Rs. 240 in the previous year.

46. The test applied, which includes that of the supervising officers, appears on the whole sufficient. 47. The outlurn of Phalni work cannot fairly be compared with the figures of the work done in the previous season by the Phalni Establishment for reasons explained by the Deputy Superintendent in paragraph 41 of his report. There appears no reason however to find fault with the outturn.

Year.		Measurement.	Classification.	Settlement.	Miscellansons	Total.	
			Rs.	Re	· Rs.	Rs.	Rs.
1896-97	•••	." •,••	99,274	50,783	45,371	8,329	2,03,757
1897-98	•••	•••	1,05,603	204	89,0 18	3,660	1,48,473
Increas		***	6,329				•••
Decreas		*		50,579	6,365	4,669	55,284

48.	The following	table shows	the	classified	cost of	'the survey :-

49. The details furnished in paragraph 46 of the Deputy Superintendent's Report go to show that in some talukas the work to be done was in excess of the estimate. I am afraid there is little doubt that the work was underestimated by Mr. Hearn. I hope to visit the establishments shortly, and any steps that may be found possible to secure the completion of the work to time will be taken.

50. As regards the distribution of working and non-working days, the only point for comment is the large increase in the number of days under office work. This appears to have been unavoidable as explained in paragraph 29 of the Deputy Superintendent's Report.

51. The details of the settlement work are furnished in paragraph 52 of the Deputy Superintendent's Report. The proposals for the Sháhapur Táluka, sent in by the Deputy Superintendent, have been submitted to the Commissioner, N. D., with remarks by this office. The reports for Máhád and Mángaon Tálukas are with the Collector and have not yet been received in this office. The only settlement that remains to be done is that of the Dáhánu Táluka, proposals for which are under consideration and will be submitted shortly.

52. The field work in this survey was accomplished much before the estimated date, which is creditable to the head of the survey, the subordinate officers and men working under him.

53. During the year Mr. Hearn, one of the most able and experienced officers of the department, retired from service. Government were pleased to express their high estimate of the services of this officer in Government Resolution No. 1852, dated 15th March 1898.

Marátha States Survey.

54. This survey continued in charge of Mr. J. C. Whitcombe.

55. Mr. J. W. Whitcombe, Assistant Superintendent, was transferred to the . British Survey Department and posted to the Deccan Survey under Government Resolution No. 5790, dated 8th September last, with effect from 6th August last. He has since reverted to the Marátha States Survey under orders contained in Government Resolution No. 8144, dated 16th December 1898.

56. The number of establishments remained the same. . The distribution of the men for measuring and classing was somewhat different :---

	Yes,	, ,	Measurers,	Classors,	Total.
1896-97 1897-98		*•-		7-94	52
7091-00	•••	•••	46-27	5.78	52

57. The measuring and classing operations were carried on simultaneously as in the previous year, the classers following the measurers. The ground covered was 117 villages for measurement and 94 for classification, comprised in the Gad Hinglaj and Panhála Tálukas of the Kolhápur State.

58. The following tables show the usual details :---

MRASURED. Thered. Averag Average Cost per acre. for pe Ymr. 667 Fields. Waslas. Acres Fields. Acres Acres. A. p. A. g 1896-97 24,585 96,198 235,752 2,262 1 7 8,306 0 25 (16.9) (12.7) 1897-98 (a) 13,016 144,221 87,965 **2**,433 4.678 ť 1 5 0 13 (6) 12,859 157,126 (18.7) (12·3) *** 25,375 144,221 195.091 790 48,023 Increase 171 Decrease 40,661 0 8,628 0 12 2

Measurement.

(a) Area actually measured.

(b) Area confirmed without actual measurement.

Classification.

Year.		Ста	ift).	Average	Tar	TEP.	Average			
I	 .		Fields.	Åcres.	Cost per acre.	Fields.	Fields. Acres.		difference.	
				•	A. p.		·	Soil	Water.	
1896-97	•••	•••	24 ,124	230,761	0 10	115	5 97	l pie.	0 pie.	
1897-98	•••	•••	(a) 1,973 (b) 17,883	8,399 158,850	}1 1{	(19···i) 825 (16·5)	(8-9) 870 (10-9)	}1 do.	0 do.	
		• •	19,856	161,749						
Increase			***	• * *	08	210		•••		
Decrease			4,268	69,012		I	227			

(a) Area actually classed.

(b) Area confirmed without actual classification.

The outturn, as compared with that of the previous year, shows a considerable falling off in area of both measurement and classification. This is attributable to the hilly nature of the Panhála Táluka which made the work much more difficult, and also to the fact that the tálukas of this year contained smaller occupancies, as is shown by the very large increase in waslas and in the increase also in fields under measurement.

59. Working days show a decrease of nearly 10[°] per cent. for measurers. This decrease was mainly due to the unavoidable loss of time in travelling and in detention of the men in quarantine. The working days for the classers on the other hand show an increase from 87.06 to 87.34.

60. The test taken, which includes that by the Assistant Superintendent, seems adequate.

. * 1301---3

61.	The	cost of th	ne operations	under	all head	s is	shown	in the	following
table :—	,								•

	Measure- ment,	Classifica- tion.	Settlement,	Miscellane- ous.	Total.			
<u> </u>				Rs.	Rs.	Rs.		Rs.
1896-97 1897-98	•••	•••	••••	23, 3 34 21,781	11, 611 10,821	10,096	•••	45,101 42,898
Increase	•••	•••		•••		200	,	
Decrease			** :	1,613	790	•••	•••	2,203

62. The distribution of cost between the States affected, as far as the year under report is concerned, may be briefly exhibited thus :--

	State,-	qto,-			Measurement.	Classification.	Settlement,	Total.	
· <u> </u>	-				Rs.	Rs.	Rs.	Rs.	
Kolhápur Ichalkaranji Vishálgad	i i		•••	-	10,821 	10,176 80 40	42,778 80 40		
	_		Total	•••	21,781	10,821	10,296	42,898	

63. During the year under report revised survey rates were introduced into 31 villages of the Shirol Táluka of the Kolhápur State with the results shown below :-

, 	State,	·		Former Ecvenue,	Revised demand.	Increase.
*	-	•	·	Rs.	Rs.	Rs.
Shirol Taluka,	Kolhápur State	•••	***	1,46,888	1,89,568	42,680

64. Mr. Whitcombe and the officers under him a ppear to have successfully contended against the difficulties met with and to have secured on the whole a satisfactory outturn for the year.

Summary,

65. As usual, I append a summary of the work of all the surveys taken together, but excluding that of the Native States Survey, for reasons recorded in previous years reports.

66. In the following table is shown the classified cost of all the surveys :---

c

• 8	Sarvey.		Measurement.	Classification.	Settlemenå.	Miscellaneous,	Toin].
Gujarát Deccan Konkan	•••	 	Rs. 1,951 30,265 -1,05,603	Rs. 39,433 7,535 204	Rs. 29,596 19,404 89,006	Rs. 803 7,993 3,660	Rs. 71,783 65,197 1,48,478
	Total	•••	1,37,819	47,172	88,006	. 12,456	2,85,453
Total	for 1896-97	•••	1,47,607	99,207	98,2 3 0	17,857	3,62,901
Inorea Decrea		•••	9,788	52,085	10,224	5,401	. 77,448

Note. - In the Konkan the following items of cost are encluded from the table.

· · ·		1896-17. Rs.	1897-96. R.a.	
Phálni operations		8,790	01 0.00	
Work in the Bhor State		1,031	461	• • •
NoteNo work was done in the	Janjira St	ate during the	year.	

This net decrease of Rs. 77,448 is made up as follows :-

Gujarát Survey			•••		-26,094
Deccan do.		٠	•••		+8,930
Konkau do.	¥ ***			-••	55,284
••			Net decrease	•••	77,448

The causes of increase and decrease in the several surveys have been explained in the remarks on these surveys. As explained in the previous year's report, the chief point is that the cost of the survey is steadily diminishing from year to year owing to the gradual contraction of the operations of the department. The cost of the operations in the Bhor State amounted to Rs. 461, which sum will be recovered from the State. The cost of the Phálni operations, which this year amounts to Rs. 21,029 owing to all the parties in the Konkan Survey employed on this work in the beginning of the season as explained in paragraph 41 above, will also be partly recovered from the occupants for whom the Phálni is done.

67. The charge against each survey of the pay and allowances of the Survey Commissioner, and his office debitable to survey during the last two years, is shown in the following statement :---

Year.			Gujarát,	Deccan.	Konkan,	Total,
			Rę.	Rs.	Re.	Rs.
•••	***		6,428	4, 268	13,845 19,736	24,541 24,496
***	***	-	0,000			
••• •••	***	•••	890	454	109	
	 	··· ···	····	Rs. 6,428 6,038	Rs. Rs. 6,428 4,268 6,038 4,722 454	Rs. Rs. Rs. Rs. 6,428 4,268 13,845 6,038 4,722 13,736 454

The distribution has been made according to the usual rules.

68. The next two tables show the cost per square mile in the two years under comparison and the details for each survey :---

· · ·	Year.		A	Cost per square	
		Ē	Acres,	Square miles.	mile,
<u></u>	·				Re.
1896-97 •	•••	***	1, 3 27,387 870,47 5	2,074	57
1897-98	****	•••	870 ,475	1,360	74
Increase	•••				17
Decrease	•••	••••	456,912	714	

Survey.	Total area measured, i.e., dealt with under different and varying forms of measurement operations.	Gross cost of such operations,	Cost per square mile,	Percentage of days spent in Boundary- mark, inspection.	fost chargeable to Boundary- mark inspection,	Net Cost of Measure ment per square mile.	Net Cost in 1898-96,
·	Acres.	Rs.	lis.		Rs.	R3.	Rs.
Gujarát Deccan Konkan	851,202 246, 549 272,724	1,951 80,265 1,05,603	4 79 247	21-10 51-15 8-09	412 15,481 8,543	3 38 228	17 44 220
Total ~	870,475	1,37,819	101	26.78	\$6,908	74	57

There is a decrease in area coupled with an increase in the cost of operations. This seems, however, due simply to the character of the year's operations as explained in the reports of each of the surveys.

Y		•	Ares classed.	Cost per Acre,	Cost per Square mile,	
	·		Acres.	A. p.	Rs.	
1896-97			1,604,207	0 11	4 0 .	
1897-98	***		1,155,248	0 8	· 27	
Increase			L61714		******	
Decrease			448,959	08	18	
		· .		1	1.	

69. Similar tables follow to show the details of classification :--

Excluding the survey of Native States and Phálni operations in both years.

	Burrey.	Arqs classed. (Cost pe	r Acra	' Cost per Square mile.	
		-	Acres.	۸.	p.	Rs.
Gujarát Decean Konkan			941,101 212,203 1,944	0 0 1	8 7 8	27 23 67
	Total	•••	1,155,248	0	8	27

70. The results as a whole seem in favour of the year of report, there being a decrease in the average cost per acre. The variations of cost in the different surveys are fully explained in the remarks on each of them.

71. The cost of measurement and classification, taken together, are shown below :---

	Survey.		Combined cost per acre.					
			1896	-97.	1897	98. `		
			A,	p.	A .	p. c		
Gujarát Decean	***	·	. 1	4	O	9		
Decean			2	11	2	0		
Konkan	- 4 m		7	1	. 7	10		

Exclusive of Phálni operations and the Survey of Native States.

72. The next table exhibits the total cost, including the item of settlement of each survey contrasted with that of the previous year :---

Barrey.		Total cost, 1896-97.	Total cost, 1897-98,	Increase.	Becrease.
		Rs.	Rs,	Rs.	Rs.
Gujarát Deccan Konkan		97,877 61,267 2,03,757	71,783 65,197 1,46,478	8,930	26,094 55,284
Total	[8,62,901	2,85,453	4 • N	77,448

Exclusive of survey operations in Native States and Phálni work in both years.

Eurrey.	Amount of Settlement	Average of past	Incre	H.86.
	Jamábandi,	collections.	Enpose.	Per cent.
b ²	Rs.	Rs.		·
Deccan	4,577	3,414	1,163	33-2
Konkan	3,30,134	2,54,484	75,700	2 9·8
Total .	3,34,711	2,57,848	76,863	29.8

73. The increased revenue accruing from settlements introduced during the year is shown below :---

74. The details of the call on the Survey Department for aid on behalf of other departments are shown in the following statement :---

•			REVENOR.		FORRET.		MUNICIPALITY. NATIVE		NATIVE STATES.		MARÁTHA States zurvey.		TOTAL.		
•	5	irvey.			Number of months for one man,		Number of meaths for one man.		Number of months for one man.		Namber of months for one man.		Number of months for one mon.		Number of months for one man,
					M . d.		X. d.	· · ·	¥. d.		14. d.		X. d.		ж. с
4	Gajanıt							7	19 1	41			l	,	19 8
1	Deccan			1	1 f 0	7	N ,0				-	·		8	96 0
Ì	Konkan			12	80 14		36.0	1	32 0	1	17 0	7	84 0	24	334 14
		Total	•••	13	102 14	10	190 0		81 3	1	28 0	7	84 0	89	849 17

75. It will be seen from the above that an equivalent of 29 men was employed on behalf of other departments as against 31 in the previous year.

District.	Former Bivenue,	Revised Demand.	Immediate Increase.	Percentag Increase.	
•	Bs.	Rs.	Rs.		
Ahmedabad	8,74,265	10,99,018	2,24,753	25.7	
Kaira	13,30,021	15,32,057	2,02,036	15.2	
Panch Maháls	1,10,427	1,11,934	1,507	1.4	
Surat	5,25,780	6,10,659	84,879	16.3	
Thána	5,90,951	8,21,934	2,30,983	39-1	
Khandeah	23,55,855	30,76,277	7,20,422	30.2	
N. 4	7,99,441	10,64,160	2,64,719	33-1	
Ahmednagar .	11,76,900	15,12,309	3,35,402	28-5	
D	. 9,72,165	12,81,699	8,09,534	31.8	
Sholápur	8,56,901	11,49,475	2 92 574	34.1	
	13,19,568	17,17,891	8,98,328	30-2	
Kolába	. 7,33,534	10,00,271	2,56,737	36.3	
Belgaum	. 11,05,172	14,36,165	3,30,993	20.9	
Dh árwár	13,00,701	18 87,818	5,87,117	45·1	
Bijápur	8,56,355	10,79,438	2,23,083	26.0	
Total .	1,49,08,036	1,93,81,105	44,73,069	30.0	

76. The following table is given corrected and brought to date as usual :---

77. The following statement gives details of settlements introduced into Insm and Jáhzgir villages, the former with the sanction of the Survey Commissioner and the latter under sanction of the Political Agent and the State concerned. It does not include the settlements introduced in the tracts being dealt with by the Maratha States Surveys :--

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B 1801-4

		Number			Revised	INGREASE.	
Name of District.	Name of Táluka.	of Villages	Nature of Settlement.	Old Collections.	Assess- ment.	Ba.	Per cent.
•	· · · · · · · · · · · · · · · · · · ·			- 	Rs.		
Khándesh Thána Bhor State	D	3	Revision Original Do	630	3,745 1,116 47,293	889 477 16,622	31·1 74·6 54·4

Judi Settlement and Scale Remuneration.

78. During the year under report the "Judi Tharáv" has been settled in 690 villages as compared with 610 of the previous year, and proposals for the revised scale remuneration have been prepared for 839 as against 802 in the previous year. The record of Judidar Patraks shows an improvement over that of the previous year. This work, it is hoped, will show better results next year if there are less difficulties in the way of revenue officers in answering references made by this office on the subject. The record for scale remuneration statements seems satisfactory.

*].		AREA	138 Q ¥			· · ·	4333	438 OP '
Name of Táluka.	Total Number of Villages	Revision Settlement year.	Judi Settle- ment.	Bevised Scale Be- munera- tion.	Name of Táluka.	Total Number of Villages	TONT	Judi Settle- ment.	Revised Scale Re- muners- tion.
1		\$	6	5	1	3	- 8	•	5
Dhárodr.					Nasik.				
Navalgund	1	1856-87		1	Chandor	6	1894-95		6
Total	1			i	Niphad Yeola	8	189 4-95 1895- 96	8	
Bijd pur,					Peint	167	{ 1895-9676 1896-9790	2	167
Muddebibál		1896-97	1	4	Nandgaon	54	{ 1897-98 1 { 1896-9745 { 1897-98 9}	52	54
Total		*****	1	4	Total	238	****** *	57	238
Belgaum Athni	1 1	{ 1888.89 1 1896.97 3 1891.92	3	4	Khandoed.		1889-90		
Go hák	8	{ 1895-96 1 1896-97 1}	***	2	Erandol	28	1889-90 1890-91		86 28 1
Tctal	7	•••••	8	7	Bhusaval	21	{ 1890-91 15 1896-97 6}	1	21
	8	J891-92		8	Jalgaon Pachora	74 42	1891-93 1892-93 (1892-9312)	16 8	74 48
Koregaon	•	1893-94 3 1895-96 1 1896-97	•••	4	Sindkhed	17	{ 1894-95 2 { 1897-98 3 }	7	17
Jávii	190	1894-95 1896-97	41	190	Chalisgaon Nandurbar	181	{ 1896-97 129 1897-98 2	25	181
Sátára Patan	126	1895-96	6 5	6 126		110	1896-97	85	110
Karad	77 107	1895-96 1896-97	83 107	77 167	Total	510	·	145.	510
Total	522	******	192	522	Thána,		- -		
Admodisagar,			[[Murbad Kályan		1895-96 (1895-96 224)	2. 43.	170
Sangammer	1	1896-97		1	Bhiwndi	200	1897-98 1) 1896-97	•8 25	225 200
Total	1	******		1	Salaette i Bassein	100 91	1897-98 1897-98		100
Pocsa. Mayal	2	1894-95	3	2	Total	786	**>9es	161	788
T 1	1	1888-89 4) 1889-90 8	17		Kolába.				
Purendhar		1891-93 4 1896-96 1 1894-95		51	Panvel Pen	18 8	{ 1893-9416 } { 1894-95 2 } 1894-95	•••	18 8
Haveli	۱ <u>۱</u>	$\left\{\begin{array}{c}1^{\rm F93.94},\ldots 4\\1^{\rm F94.95},\ldots 2\\1^{\rm F95.96},\ldots 3\end{array}\right\}$	3	9	Roha	146	1897-98	•••	148
Total	40	100010	23	88	Total	172	848777		172

79. The usual table is given below :---

80. During the year Mr. D. M. Patvardhan, Deputy Collector, was instructed in measurement and obtained the requisite certificate. The revised scheme for training Junior Civilians has already been submitted to Government.

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I have the honour to be, Sir, Your most obedient Servant,

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W. P. SYMONDS,

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Acting Survey Commissioner and Director, Land Records and Agriculture.

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From

То

THE SURVEY COMMISSIONER AND DIRECTOR, LAND RECORDS AND AGRICULTURE,

Bombay;

THE UNDER SECRETARY TO GOVERNMENT,

REVENUE DEPARTMENT.

Poona, 28th March 1899.

SIR,

With reference to Government Memorandum No. 2108, dated 22nd instant. I have the honour to submit the accompanying statements called for in clause 1 as also the abstract referred to in clause 2 of paragraph 1 thereof for each of the three different surveys and to make the following observations :—

Gujarát Survey.—It will be seen that not only all the field work outlined in Mr. Ozanne's programme was completed by end of May 1893, but in addition also the Talukdári work in the Panch Mahila, which was proposed to be commenced after 1900 (vide Appendix C to Mr. Ozanne's report No. $\frac{1}{1187}$, dated 20th May 1896), was also accomplished. With regard to the recess work not being completed for all the villages of which the field work was done during the year, I beg to invite reference to this office No. $\frac{8}{15}$, dated 5th January 1899, quoted in the preamble of Government Resolution No. 937, dated 6th February 1899. As regards settlement, the delay which has occurred in the submission of the proposals for the Jalálpur Táluka of the Surat District was unavoidable as will be seen from paragraph 18 of my Progress Report for the year ending 31st October 1898, now before Government. They have, however, since been submitted. In the paragraph referred to above of the Progress Report, I have explained the arrangements ande for completing this work within the date fixed for closing the work of this gurvey.

Deccan Survey.—In the programme for the year 1897-98, it was intended to complete the field work in the Kálwan Táluka and to finish as much work in Pimpalner as possible. Kálwan Táluka was finished as estimated, but sufficient progress was not made in Pimpalner owing to men being employed on the sub-division of large numbers in the unsettled villages of the Nandurbár and Taloda Tálukas of the Khándesh District. The necessity for this work and the arrangements made to complete the field work remaining in this survey by the prescribed date have been explained in paragraph 28 of my Progress Report under reference. As for settlement it will be seen that considerably more work than was estimated was accomplished. The field operations in the tálukas of Málegaon and Báglan of the Násik District were completed in the year 1891-92 and 1895-96, respectively. The original lease in both the tálukas, however, expired in the year 1896-97; the settlement proposals were accordingly submitted in the year 1897-98. They should have been shown under "Settlement" in the programme for the year 1897-98, but appear to have been inadvertently omitted.

Konkan Survey.—A comparison of the details of the work proposed to be accomplished in the year 1897-98 with that actually accomplished will show that the survey is ahead of the programme under all kinds of work. No further remarks appear therefore called for.

I have the bonour to be,

Sir,

Your most obedient Servant,

W. P. SYMONDS,

Acting Survey Commissioner and Director, Land Records and Agriculture.

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STATEMENT No. 1.

Progress of work in the Gujardt Revenue Survey.

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· Entire re-classification.

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Note 1.—The fair maps of the villages marked † and the recess classification work of the vil-inges marked ⁰ were not completed during the year ending 31st October 1897. Note 2.—] These villages are not included in Appendix No. 1 to Gujartt Sarvey Progress Beport.

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W. P. SYMONDS,

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Acting Survey Commissioner and Director, Land Records and Agriculture. .

STATEMENT No. 1.

Progress of work in the Konkan Revenue Burvey.

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ábánu	Do					•••	-		,	•••	212	1598-94.									Í				
lángaon	Do		-		•=•		•••		•••		3 26	1691-92.												ł	
	2 šhánu sascin shád iángaon iángaon iángaon iángaon iángaon iángaon iángaon	2 8 Áhánu Government. assecin Do Do bhán Do lángaon Do lángaon Do bhánu Government. bhá Do bhá Do bhápur Government. hánu Do	3 8 4 âhânu Government, assein Do âhânu Do ahâd Do ahâd Do ahânu Government, ahânu Government, ahânu Government, ahânu Government, ahânu Do, ahânu Do, ahânu Do, ahânu Do,	Tálaka. Government or Inám, go ba go ba g	Tálaka. Government or Inám, Indian, Indianu Indianu Indianu	Tálaka. Government or Inám, Rue series series series bor inám, Rue series series bor bor bor bor bor bor bor bor bor bor	Tálaka. Government or Inám. Rumani seguna seguna s	Tálaka. Government or Inám, gun ogun ogun ogun ogun ogun ogun ogun o	Táinha. Government or Inám. Instruction government government. Instruction government. Instruction government.	Tálaka. Government or Inám. gund akana bo naguna yo naguna	Tálaka. Government or Inám, Branna segen szeren sz	Tálnka. Government or Inám. Isomanna skultur somannna skultur somannna skultur somannnna skultur somannna skultur som	or Ináme, Britishing and	or Inam. Gran man. Gran man.	or InAm. Song Arian are	or 1 ham, or 1 ham,	and and an	or Indam. for Indam. <td>or Inkan, fright and an an</td> <td>or InAm. Frain ar in the second of the s</td> <td>or linkar, Brittar, Singer, Sing</td> <td>ar 11aar, ar 11aar,</td> <td>or inku, or inku, <td< td=""><td>or inam. Status, Status,</td><td>or inam. or inam. <th< td=""></th<></td></td<></td>	or Inkan, fright and an	or InAm. Frain ar in the second of the s	or linkar, Brittar, Singer, Sing	ar 11aar, ar 11aar,	or inku, or inku, <td< td=""><td>or inam. Status, Status,</td><td>or inam. or inam. <th< td=""></th<></td></td<>	or inam. Status,	or inam. or inam. <th< td=""></th<>

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W. P. SYMONDS, Acting Survey Commissioner and Director, Land Records and Agriculture.

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From this it will be seen that the proportion of working and non-working days for the season under report is almost identical with that of the preceding season. For an explanation of the important decreases and increases under the two heads named above, a perusal of the detailed review of the A and B Establishments is requested.

Test of Measurement.

15. The test of measurement of every kind was duly completed, except in Pimpalner, where, owing to the sudden departure of the Survey Mámlatdár to the Nandurbár Táluka, 10 villages remained untested by him and consequently by Mr. McIver, Supervising Officer. These arrears of test will be disposed of during the current season. The details of test taken are given in the subjoined statement. They concern only the Kalvan and Pimpalner tálukas :--

					ž	ž.	riginal tabl	Perce	ntages of	Test.
Establishment.	Name of Officer.	Fields	Varian	Acres	Arenge Vaslas field.	Averge acre	Average difference between original measurement and test per cent.	Fields	T.L.	Aur
1	ł	3.	4		6	7	8	9	30	11
	Ordinary Itol.						▲. g.	On we	ork done b tablishme:	y the
⊾ {	Mr. J. A. McIver, Acting Amistaut Settlement Officer	8	19	10	6	3	0 30	0.4	04	04
ί.	latdar	105	646	898	6	4	0 25	12-6	18-4	100
	Total	108	665	408	6	4	0 35	12.8	18.8	16-4
B {	Mr. J. A. McIvor, Acting Assistant Settlement Officer Mr. Laxuman Vanudso, Head Surveyor Mr. Purshotam Ramehandra, Nim- tandar	9 90 136	58 147 874	43 142 749	6 7 6	6 7 6	1 0 0 82 0 28	0-8 1-4 9-6	0*4 1*1 6*3	0 <i>5</i> 1.6 8.3
	Total	165	1,079	984	7	6	0 87	11-6	7.8	10-4
	Grand Total	873	1,744	1,342	6	5	0 29	19-1	9-8	11.7
	Superior Test. Mr. J. A. Molver, Acting Assistant								ork done i cy Mámia	
_ /	tettlement Officer	14	72			•	0 54	18-8	11-1	12.6
	•						Í	On work Sarveya	done by t	be Head standár,
в [.]	Do. do	20	101	72	8	4	0 \$1	12-8	9.9	B •1
	Total .	34	178	122	5	4	0 29	13-0	10-4	9-5

It will be seen from the above that the test taken by the Supervising Officer both superior and ordinary, is sufficient. The Survey Mámlatdár's test is over and above the prescribed limit. The Head Surveyor having bad to take all classification test, was given the assistance of a Nimtandár. The combined tests of these officers also give the required percentage.

16. The differences found at test will be found recorded in the Appendix Appendix II. noted in the margin. The number of fields tested is 307. Of these, the difference in area of 293 fields, or 97 per cent. falls within the limit of 3 per cent. Only nine fields exceed that limit. One of these was due to carelessness for which the offending measurer was punished. The smallness of the fields accounts for the remaining 8 differences. All errors discovered were corrected.

17. In the following table is shown the amount of test taken of the boundarymark inspection contrasted with the figures of the previous season :---

в 1301—2 р

Fatab- shment	Name of Supervising Officer.	Name of Officer in immediate charge.	Fields.	A cres.
1	9	8	•	5
٩٦	[Mr. P. B. Phadko, Survey { Mámlatdár {	1,358 1,210	8,365 11,442
}	Mr. J. A. McIver, Acting Assistant Settlement Officer.	Mr. Laxuman Vasudev, Head Surveyor	685	4,701
B	Unices.	Nimtandar	976	6,794
		- Total {	2,043 2,186	13,066 18,236

N. B .- The upper line of figures refers to the preceding year.

This test is independent of the test of the boundary-marks inspection which forms the concomitant part of the test of measurement, and was carried out as required by rules by the testing officers concerned.

18. Boundary-marks were erected and inspected in all the 96 villages

Appendix III. measured during the season. In 94 villages marks were put up by the villagers themselves and in 2 only had they to be erected by the employment of hired labour. All boundary-marks accounts were completed and sent to the Superintendent before the close of the year.

Appendix IV.

19. The monsoon examination of all the villages was punctually completed.

Percents ass

Sub-division work.

20. As observed in paragraph 12 above the A Establishment was employed on this work in Nandurbár and Taloda from March to May 1898. 182* villages were to be dealt with and all work was to be finished before the close of the season. As it was feared that the establishment if unaided would find it difficult to finish the allotted work within

the prescribed time, eight Circle Inspectors were obtained from the Collector of Khándesh. The average strength, total outturn and cost per acre are given below :--

Average	Outturn	Cost per
strength,	acres.	Bere.
80·7 3	326,995	Rs. a. p. 0 0 5

The cost is as might be expected from the nature of the work.

21. From the following statement will be seen the proportion of working and non-working days :---

	Worki	ng Days.		ercentages.
Measuring Field to field insp	ection	referred to in r	•••	46.77
graph 9 above				26.54
Measurement of boy	und ary	disputes, &c.	•••	•••
In-door work	111	•••	•••	0.31
٠		Total		73·62
Na	n-wor	king Days.	•	
Sickness		•••	•••	5.21
Villagers not co-ope Rain	erating		•••	0.62
Travelling	***		•••	12·82
Leave and holidays	••••	***	***	7.68
d -			•	· · · ·
		Total	•••	26·38

The proportion of 73.62 working days to 20.38 non-working days is satisfactory, considering the tract worked in. "Travelling" shows a high percentage, but that is partly due to the journey from Pimpalner to Nandurbár and thence on to Taloda and partly to the loss of time in travelling from village to village, which was considerable, the villages dealt with being numerous.

					ЪĘ.	Der		Percen	itages o	f Toni,
	Name of Officer.				-	geloge	difference giual men nd test			
Betablishment.		Fields.	Yashas.	Aores.	Average field.	Average fi. id.	Average diff ween origin ment and oant	Fields	Vasias.	Acres
1	3	8	•	5	6	7	. 8	9	10	11
A.	Mr. P. B. Phedke, Survey Mám- latdár.	151	867	740	2	5	A. g. 0 35	19-2	18-2	17-1

22. The test tak	en is detailed below :-
------------------	-------------------------

It will be seen that the test is very much in excess of the prescribed limit, but this was unavoidable as some test had to be taken in every village whatever the amount of work done in it by the measurer. As the work was simple and the supervising officer could not be spared, his presence being indispensable in Kalvan, the testing work was solely entrusted to the Survey Mámlatdár. Consequently there is no supervising test on this work. Mr. Phadke worked energetically while employed on the sub-division work.

23. The differences found at test have been detailed in Appendix II. Out Appendix II. of the 151 fields tested the difference in only 6 exceeds 3 per cent.; that of other fields falls within the 3 per cent. limit.

Appendix IV.

24. The monsoon examination of all the villages was completed in time.

Classification.

25. Classification work was done in the Dhulia and Pimpalner Tálukas of the Khándesh Collectorate and in the Kalvan Táluka of the Násik District.

26. The following statement is an abstract of Appendix V and contrasts • the work of the season under report with that of the previous season :---

Establish- ment.	Average strength-	Name of Supervising Officer,	Name of Officer in immediate charge.	Fields.	Acres.	Average Acres per field,	Average cost per Acre.
1	2	8	4 .	5	6	7	8
							Rs. a. p.
	5-85	Mr. J. A. McIver, Acting	Vasudev, Head	31,999	189,390	12	0 0 9
В {	6-99	Assistant Settle- ment Offi- cer.		19,845	212,203	iı	0 0 7
	1.64		Increase	7,846	72,813	•••	
.			Decrease	•••		1	0 0 2

N. B .- The upper line of figures refers to the preceding year.

	1896-97	7. 3897-98.
Revision Original	121,259) 17 13 1 83,990
Total	139,890	212,205

The seasons under contrast are of equal durations. In both there is original and revision survey work, as will be seen from the details noted in the margin; the cost per acre, however, is less by 2 pies due to the area actually classed being less than that of last year. 27. Only a section of the B party consisting of classers was employed on B Establishment-Classing section. It was supervised by Head Surveyor Laxuman Vasudev. The classers were first moved to the Pimpalner Táluka with the measurers of

the establishment. As there were no villages ready for classification at the commencement of the season, the classers had to be employed on measurement work for some time. One man was, however, sent to the Dhulia Táluka to complete the classification of one Inám village which was partly finished in 1891. The classers finished 12 villages while in Pimpalner and then started for Kalvan about the middle of December. The classer employed in Dhulia after finishing his village went to Pimpalner and after working there for some time moved with the rest to Kalvan. The classers were withdrawn from Pimpalner, as the Kalvan Táluka was to be completed before the close of the season. In Kalvan 122 villages were classed, 14 according to original and 108 according to revision The revision work was conducted according to Partial system. The survey. average strength shows an increase of 1.64 due in part to the employment for some days on classification work of some of the measurers who knew classifi-cation and in part to the two Circle Iuspectors obtained in April from the Collector of Násik to assist in classification. The days under "Classification" show a reduction of 13.50 per cent., as in the western portion of the taluka where the classers were employed, there was less Patasthal area and consequently less actual classification work. "Measurement of boundary disputes, testing, &c.," exhibits an increase of 549, attributable in part to the necessity of giving Mr. McIver the assistance of a classer for some days for testing purposes as he was now to the Deccan system of classification, and in part to the increased amount of work in connection with the enquiries as to the condition of Bandháras which were numerous in the tract dealt with. The increase of 1.92 under "In-door work" is explained by the very fact which accounts for the decrease under "Field Classification." The increased loss under "Travelling" (7.20 per cent.) is due chiefly to the time spent *en route* as is apparent from the moves of the classers detailed above and partly to the increased loss of time entailed in travelling from one village to another proportionately to the increase in the number of villages of which work was done. The decrease of 2 pies in the cost per acre has been explained in paragraph 26 above. It must be recorded here that the Head Surveyor showed great energy in completing the Kalvan Táluka.

28. The percentage distribution of working and non-working days is given below in contrast with the figures of the previous season :---

				3896-97.	1697-98.
Wo	r k ing Da	iya,			
					1.0
Field classification		•••		63-90	56.40
Inspection of bounds	ry-mark	n, đo.		2.23	1.68
Measurement of bo	andary d	isputes, testi	ug, &c.	2.45	7 94
In-door work	444	•••	•••	4.99	6.91
	•	To	tal	79-57	72.93
Non-и	v or king 1	Days.			
Sickness	,			5 ·53	5.49
Villag. rs not co-oper	ating		•••	1.23	5 41 0 84
Rain			•••	0.42	0.0
Travelling	***		•••	6 ·6 2	13.82
Leave and holidays	4	•••		6.27	7.0
·					
		To	ial	20.43	27.07

The working days show a reduction of 6.64 due to the increased amount of travelling explained in the preceding paragraph.

Test of classification.

Betablish- ment.	Name of Officer,	Fields,	Acres.	Average acres per field.	DIFF	1838) 1 31 1 70	CTWI O'LIG	IN EN INAL	PERCENTAGES OF TEST ON WORK DONE BY THE ESTABLISHMEST.	
					8oil.	•	Wa	ter,	Fields,	Acres.
1	2	8	. 4	5	6		1	ŗ	8	9
	Ordinary Test.				A. 1	p.	•	p. :		
B. {	Mr. J. A. McIver, Acting Assistant Settlement Officer Mr. Laxuman Vasudeo, Head	18	. 84	2	0	5	0	0	1.0	0-4
(Surveyor	808	1,159	4	0	6	Ò	2	16-4	12.4
	Total	826	1,193	4	0	6	0	2	17.4	12-8
B .	Superior Test. Mr. J. A. McIver, Act- ing Assistant Settlement Officer	80	68	2	0	, 6	ð	0	9.7	5-9

29. In the following table are detailed the tests taken by the Head Surveyor and Mr. McIver :--

The Head Surveyor's test concerns Pimpalner as well as Kalvan, while Mr. McIvor's test refers to the Kalvan Táluka alone. The supervising test remained in arrears in Pimpalner as Mr. McIver, who was unacquainted with the Deccan system of classification, did not commence testing till he had received instructions from Mr. Fforde, the then Superintendent. The isolated village in Dhulia could not be tested at all as it was very much out of the way,

The test taken by the Head Surveyor is ample. Mr. McIver's supervising test is sufficient as regards numbers, but deficient as regards acres. This is because he confined his test to small numbers. But the selection of small numbers was necessary to make a judicious distribution of test. The large numbers classed consisted chiefly of lands recorded as unculturable at the time of the first survey and their valuation was very low. The small numbers tested were Pstasthal numbers and consequently of greater importance. To select in one and the same village small and large numbers was not possible, especially for the reason that in very many villages not more than a single survey number had to be tested by the supervising officer. Small numbers were therefore retested in preference to large numbers.

The arrears of test referred to in paragraph 22 of last year's Progress Report were disposed of in the year under report.

30. The differences between test and original classification have been detail-Appendix VI.—Differences found at test. Cases are as usual due to insufficient care in ascertaining the average depth or order of the soil and to the misapplication of the rules. 255 cases were tested for water and the differences found in them were all within one anna. All errors have been corrected after full enquiry.

31. The monsoon examination has been completed of all villages classed Appendix VII.-Monsoon examination. The arrears referred to in paragraph 24 of the last year's Progress Report have also been disposed of.

= 1801- 8 p

32. Appendix VIII exhibits the progress in the preparation and distribution of maps. During the year under report copies of maps of 339 villages—250 Government, 7 Inám and 82 Jahágir—have been reproduced by photography and distributed as usual. All these maps refer to the villages of which fair maps

distributed as usual. All these maps refer to the villages of which the maps were sent for printing last year. Maps of 149 villages and Gat books of 383 villages were sent for printing during the year under report, but none have been printed. No maps remained to be sent to the Photozinco Office.

33. Details of outturn of the mapping section are given below :----

Letans of outfull of the supplies		2	
(1) Táluka maps prepared by hand	1 h		
(1) Taluka maps prepared by nature (2) Village maps on which boundary-marks have been shown or or	1 WEICH		-
canals, &c., have been plotted	***	11	
		8	
(8) Tracings made of village maps	tozinco		
(4) Maps mounted on cloth, including those received from Pho (4) Maps mounted on cloth, including those of Villeon Officers		339	
Office to be sent to the District and Vinage Oncore		149	
(5) Willows many corrected before being sent to be printed	•••	909	
(6) Get books corrected before being sent to be printed	<i>,</i>	929	•
(7) Taluka maps coloured for settlement report purposes		9	
(/) TRIGER maps covoured for entrement 1		~~~	

The total cost of this office was Rs. 1,383-8-10 against Rs. 1,392-7-5 last year.

34. The total cost of this survey for the year under report is shown in Appendix IX.—Expenditure. Appendix IX.—Expenditure heads of expenditure are recorded below :—

1st.—The increase of Rs. 454 under the head of "Pay of Survey Commissioner" is due to the proportional debit to this survey being more this year than in the preceding year.

2nd.—The decrease of Rs. 643 under the head of "Pay of Superintendent" is due to the abolition of the post of Superintendent, Deccan and Gujarát Revenue Surveys, from 1st July, and consequent thereupon to less pay drawn for 4 months by Mr. F. By Young, who succeeded Mr. Fforde as Deputy Superintendent.

3rd.—The increases of Rs. 318, 3,214 and 492, respectively, under the heads of "Pay of Assistant Superintendents," "Pay of Establishment" and "Contingencies" are accounted for by the absence of debit made last year to Konkan Survey. A part of the increase under the last head "Contingencies" is also due to the grant of actual expenses to men obtained from the Gujarát Survey for the journey performed by them from Gujarát to the Deccan Districts and to the increased amount of travelling performed by the A Establishment.

4th.—The increase of Bs. 95 under the head of "Construction of boundary-marks" is due to a larger number of marks erected in waste lands.

There is, on the whole, an increase of Rs. 3,930 in the year's expenditure.

35. In accordance with the orders of Government conveyed in their Resolution No. 694, dated 27th January 1891, the information regarding the expenditure of advances on account of the erection of boundary-marks during the year under report is given below :---

Total advances.	Amount recoverable.	Amount debitable to Government,	Balance for which Wasuli Patraks are not ready.
1	2	8	4
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs p.
220 14 0	112 1 8	108 12 9	

36. Details of the expenditure of this survey have been given year by year Appendix X. In the marginally noted appendix from the beginning of the survey down to the year under report. The subjoined statement explains the composition of the figures of expenditure for the year under report shown in the appendix under the heads of Measurement, Classification, Settlement and Miscellaneous :--

No.	Heads.	Heads. Actual Cost.		Total Cast.	Remarks.		
1	*	2 3		5	6		
	,	Rs.	Rs.	Rs.			
1	Measurement {	18,01 8 28,857	6,566 6,908	24,578 30,265	Ratesble propertien of $\frac{1}{2}$ of No. 5.		
2	Classification {	4,818 5,815	* 1,786 1,720	6,574 7,585	} Do. do.		
3	Settlement {	5,458 6, 230	15,134 · 15,174	20,587 19,404	Balf of No. 5 and whole of No. 6.		
4	Miscellaneous , {	6,988 6,169	2,545 1,824	9,5 29 7,998	Bateable properties of i of No. 5.		
	Total {	85,266 39,571	\$6,001 25,626	61,367 65,197			
5	Superintendent's salary { and office expenses.	21,788 20,904	•••	••••			
6	Proportion of Survey (Commissioner's pay,	4,268		• • ••• •			
	&c., establishment and contingencies.	4,722		•••			
	Total	38,001 25,626		***			
•	Grand Total {	61,267 65,197	•••	•••	· ·		

N.B .- The upper line of figures refers to the preceding year.

The cost of supervision has been distributed over the several heads mentioned agreeably to the instructions contained in paragraph 6 of Government Resolution No. 7676, dated 4th October 1895. The amount debited to the head of "Miscellaneous," exclusive of the rateable proportion of the cost of supervision, is Rs. 6,169, against Rs. 6,983 last year. The amount is made up as follows :--

				Rs.	8.	p.	R4 .		p.
 (1) Head-quarters office, Málegaon (2) Head-quarters office, Poona 			•••	6,148	 4	9	1,108	0	10
Deduct-	Rs.		р.						
Men employed on preparation of- (a) Akarbands (b) Revenue history state- ments for settlement	808	15	7						
purposes	50	0	0						
(c) Pension papers	239	11	0	1,098	10	7	5.040	10	
(3) Compensation for dearness of	prov	risio		paid to	m	en.	5,049	Τu	
in the establishments of above		CON	• 1404	** •		,	11	5	0
				Tota	1.		6,169	0	0

The grain compensation allowance granted under Government Resolution No. 3976, dated 23rd November 1896, Re. a. P. amounts to Re. 57-14-7 as detailed in

Head-quarters Office, Málegaon Do. do. Poona 46 9 7 Other establishments 11 5 0 Total 57 14 7

No. 3976, dated 23rd November 1896, amounts to Rs. 57-14-7 as detailed in the margin. The grant of the allowance was discontinued by Government Resolution No. 1403, dated 28th March 1898 (Financial Department). The amounts noted against items marked

(a), (b), (c) above have been distributed as described in the last year's report.

The increases under "Measurement" and "Classification" are due to the absence of the debit made last year to the Konkan Survey. The expenditure under "Settlement" is less owing to there being less work in connection with the preparation of Akárbands. The decrease under "Miscellaneous" is due to the retirement in January of Mr. Vishnu Balkrishna Ganu, Survey Daftardár, the pay of which post has been reduced from Rs. 90 to Ba. 45.

The average cost per acre for measurement (proper) and classification is, respectively, Re. 0-1-5 and Re. 0-0-7 against Re. 0-2-2 and Re. 0-0-9 of the last year. The combined cost, exclusive of the expenditure on the sub-division work dealt with in the foregoing paragraphs (20 to 24), is thus 2 annas against 2_{\downarrow} annas and 11 pies of the last year. Inclusive of it, it comes to 1 anna and 5 pies only.

Settlement.

37. Appendix XI records the progress attained under the three heads-Measurement, Classification and Settlement. During the year under report settlement proposals were submitted as detailed below :---

	_				VILLAS	ė.] .			
Distri	ct.	Táluba.		Gove	roment.	a	 .	By whom submitted		Order by which sangtioned.	Whether rates have here introduced.
•			•	Revision.	Originei.	Bevj- sloz,	Origia al.				
1		1			4	5	•	T		8	9
		``	_]		•				
	ſ	Malegaon Báglán Nándgaon	3 5	143 139			- 144 /	Mr. Pforde Do. Mr. McIver	9 2. 725	Side yet mnotioned.	
		Yeola	499 499	******		-		Do.	14-r 4-1-1	J	
<u> Yúcik</u>	-1	Chindor	***	******	· •	-	-	Do.		Government Resolution No. 7161, dated Sth November 1898,	during the current
_	l	Peint			1	•••		Do.	.,,	No. 3006, dated 28th	
Poona	~	Khed	***	*****	1			Do.	***	Not yet assotioned.	•
•	ſ		ſ		******	, 1	[Mr. Young	•••	Burvey Commissioner's No. 8-1620, dated 14th September 1899,	To be introduced during the current
		Xarid .	-{	******	Government lands in 8 Insm	- 		De.	•••	Not yet magioned.	year.
Bátára			l		villague.		Kádim Inam landa in 7 Inam vil-			Survey Commissioner's Y. No. 8-1230, dated 8th August 1898.	Bo. 60.
	ų	Válva		*****	· ••••	•••	lages.	Mr. Melver		Survey Commissioner's No. 3-352, dated 13th	Not yet introduced.
Belgauna		Khánápur	-	-94444		7	•	Do.		March 1899. Survey Commissioner's No. 5-362, dated 16th March 1898.	Do. do.
Dhárwár		Dhiewie	•••	3	******	-	-	Mr. Young	•••• `	Not yet sanctioned.	-
			ſ	lovernment lands in 1 Inám village,	**9354	-		Do.	••••		•,
Shoiépar		Milairan	·		Government lands in l Inám villege,	-	, 44	Do.	•	Government Resolution, No. 6960, dated 1st November 1898.	To be introduced during the current year.
Ebinicsh .	-{	Chéliagnon	-	······.	* 1100 gr.	3	-	Mr. Melver		Survey Commissioner's No. 8-805. dated 11th	Rates introduced.
	q	Shirper			17			Mr. Young	h	arrise Tible	•
Ahmednege	.	Kopargnon					-	Mr. Melver .		Not yet senstinged.	
Mirej 81 (Junior).		Gadgeri	•••	*****		15		Mr. Young		Accepted by the State	Not yet introduced.
<u> </u>			1					,	I		

It will be seen from the above that of the settlement reports noted in the

District.		Tiluka.		Number of villages.	Government or Inám.
Khándesh Nasik Bolgaum Khándesh Sát (ra		Dhulia Peint Khánápur Chaliagnon Válva Total	••••	149 1 8 1 1 169	Government Do. Inim, Do, Do.

statement, 10 refer to entire Government villages and 3 to Government portions of alienated villages. Of the romaining 6, 4 refer to entire alienated villages, one to Kadim Inim lands and one to Jahágir villages. Two reports were submitted by Mr. Fforde, 8 by Mr. Young and 9 by Mr. McIver. As Assistant Settlement Officer,

Mr. McIver examined Akarbands of 159 villages as per details noted in the margin and disposed of 149 Prakarns regarding Kamjasti Patraks, in addition to the settlement reports submitted by him.

38. Of the settlement reports submitted during the previous years, those

Year in which report was submitted,	Name of téluka,	Number of villages.	Whother according to first or Kevi- sion Survey.
Do 1896-97 .		88 do.	First/Survey, Revision. do. First Sarvey.

detailed in the margin still await the sanction of Government. Dhulia and Shirpur proposals have been sanctioned, but the rates of the former were not to be given out till the current year under the Government Resolution No. 6068, dated 14th August 1897, and those of Shirpur were sanctioned only by Government Resolution No. 4840, dated 26th July 1898, and were also

not to be introduced till the current year by Government Resolution No. 2273, dated 30th March 1898. Rates were therefore introduced only into the following few villages :----

District.	Täluke.	Number of vil- lages.	Government or infine	Revision or First Sarvey.			Previous year's collec- tions,	Amon neat secording to Burvey Eates,	Ineres us.
1	8	*	4	6	•	1		•	19
Násik Khándesh }	Paint Sindlined Chailingnon		Government. Do Insm	-	6,878	171 2,328 3,806	54 534 2,856	43 784 8,745	260 250 889

The Peint and Chalisgaon villages are some of those for which proposals were submitted during the year under report. The three villages of Sindkhed are out of the 166 villages, the proposals for which were sanctioned by Government Resolution No. 4452, dated 21st June 1893. As the original guarantee of these three villages had not expired when the rates for the rest of the villages were given out, they necessarily remained over. The increase in Government revenue is Rs. 274 only, which is equivalent to 0.42 per cent. on the total expenditure of the Deocan Revenue Survey.

39. Of the eleven survey subordinates reported last year to have been working in other departments, one has died and two have been appointed Circle Inspectors in the Department of Land Records and Agriculture, one in the Central and one in the Southern Division. There thus remain 8, and they are employed on the establishments noted below :---

				NUMUR	
Forest Settlement Office,	Khándesh				1
	Kánara			•••	8
Divisional Forest Office,					1
Do.	Working Plane,	N. C.			2
Revenue Department		•••			1
			Total	***	8

p 1301-4 p

All, except the last, who is deputed to the Revenue Department in connection with Amalner-Dharangaon Railway works and who will return to this survey when the deputation ends, are no longer required in this survey. They are only allowed to retain a lien on their respective substantive appointments in this department so long as they are on deputation, on the termination of which they will have to retire on whatever pension they may be entitled to.

About the middle of November 1897, Mr. Fforde, Superintendent, 40. Deccan and Gujarit Revenue Surveys, left head-quarters and proceeded to Dharan and Juvál in the Sánand Táluka of the Ahmedabá l Collectorate to make local equiries ordered by the Survey Commissioner and Director, Land Records and Agriculture, in his No. $\frac{8}{1317}$, dated 24th August 1897, in connection with Mr. Setna's lands. When these enquiries were concluded he marched to Broach in the beginning of December 1897 to visit the Bara villages in the Waghra Táluka with Mr. Hearn, Acting Survey Commissioner and Director, Land Records and Agriculture, for the purpose of inspecting certain lands, the reclassification of which was under consideration. About the middle of December he visited the Chikhli Táluka in the Surat District, on settlement proposals for which he had to give his opinion. Towards the end of January, he paid a short visit of inspection to the head-quarters. He then went direct to the Dhulia Táluka and made enquiries as regards waste lands in that taluka. About the middle of February he moved to the Pimpalner Taluka, where survey operations were in progress. After spending about a fortnight there, he passed on with Mr. McIver to Kalvan, where also field work was being carriel ou. About the middle of April he returned to Poons, his presence being required there to dispose of a reference about certain talukdári villages in Gujarít. Up to the time he was appointed to act as Survey Commissioner and Director, Land-Records and Agriculture, he had no occasion to leave head-quarters. During his stay at the head-quarters some of his time was occupied in conducting the experimental work in connection with the record of rights ordered by the Survey Commissioner and Director, Land Records and Agriculture, to be carried out by him, in his No. $\frac{4}{564}$, dated 5th April 1898. Mr. Young, who succeeded him in July, also had no occasion to go out of Poona up to the close of the monsoon.

41. Before concluding this report, the undersigned should like to draw the

The kigh percentage of working days, 87 among classers and 89¹/₂ among measurers, is most creditable to the management of this Survey, which in this respect is a model to the other three.

Mr. Whitcombe appears to have been conspicuously successful above all other heads of Surveys in gotting work out of his men.

Contained in paragraph 59 of Survey Commissioner's Progress Report for the year ending 31st October 1897.

Contained in paragraph 16 of Government Resolution, No. 5788, dated 8th September 1898, on the above report. attention of the Survey Commissioner and Director, Land Records and Agriculture, to the remarks quoted in the margin contained in the papers noted against them and to point out, so far as this department is concerned, that, in making those remarks, allowance does not seem to

have been made for the tract in which the work of this survey had to be carried on. The Kolhápur territory in which survey is in progress under the superintendence of Mr. J. C. Whitcombe, Superintendent, Maratha States Survey, has a far healthier climate than the country in which the Deccan survey operations were in progress. This may or may not be the sole cause of his success. The detailed statements of the Marátha States Survey would have enabled the undersigned to ascertain the causes which have contributed to such a satisfactory result, but they have not been furnished. Nothing can therefore be said positively.

Surgána State Survey.

42. Work could not be commenced in this State during the year under report owing to the difficulty of procuring a sufficient number of men for field work on account of the unhealthiness of the climate of the State. About the opening of the field season, only 2 of the 3 measurers who continued last year on the establishment to the close of the fair season, appeared and expressed their willingness to accept employment in the State, but it was not thought proper to commence work with this poor staff, as such a step was sure to entail expenditure without a corresponding advance in work. It was therefore suggested to the Survey Commissioner and Director, Land Records and Agriculture, that the work in the State should be postponed till the completion of the work in the Deccan or Konkan Survey, when men under notice of discharge might be available to any number.

> FRED. YOUNG, Acting Deputy Superintendent, Deccan Revenue Survey.

15

PROGRESS REPORT

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OF THE

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GUJARAT REVENUE SURVEY

For the Year ending 31st October 1898.

PROGRESS REPORT OF THE GUJARAT REVENUE SURVEY FOR THE YEAR ENDING 31st OCTOBER 1898.

No. 1011 of 1898.

Camp Párdi, District Surat, 14th December 1898.

During the year under report Mr. J. McNeill, I. C. S., held charge of this survey from 5th November 1897 to 30th May 1898, the charge of the office from 1st to 4th November 1897 having been held by Mr. C. N. Seddon, I. C. S., before he proceeded on leave on medical certificate. From the 31st May this survey has been under my charge.

2. Azam Jethalal Gulabchand, Head Surveyor of the B Establishment, was allowed privilege leave of absence for 2 months under the sanction of the Survey Commissioner and Director of Land Records and Agriculture, his place being temporarily filled by Classer Chhotalal Shivram, who acted as Nimtandar till the end of the field season. Azam Jethalal Gulabchand, on return from privilege leave, was transferred to the charge of the E Establishment to replace Azam Bapalal Purshotam, who died on 15th May 1898. Shortly after the commencement of the recess season, Azam Jethalal Gulabchand was ordered to again take charge of the B Establishment, leaving the charge of the E Office to classer Ranchhod Tuljaram, who was appointed Nimtandar till the close of the year.

3. The strength of the Survey during the year under report has consisted of three classing parties under Mr. Mehta, and the Huzur and Head-quarters offices under the Deputy Superintendent. In the previous year the number of field establishments was six, but from 1st November 1897 three field measuring establishments were disbanded. The average number of chains was 20²/₄ and of classers 43 as compared with 52¹/₄ and 55¹/₄, respectively, in the previous year.

MEASUREMENT AND CLASSIFICATION OPERATIONS.

4. The A Establishment remained in charge of Azam Mohanlal Ishwar, Head Surveyor, throughout the year. From the 10th November to the 31st December 1897, it was employed on measurement and classification work simultaneously in 27 villages of the Anklesvar Táluka, left unfinished in the season of 1896-97. From the 1st January to the 15th April 1898, the establishment was employed on work of a similar nature in the Jambusar and Godhra Tálukas. Subsequently a rough survey, separating cultivated from culturable land in the Tálukdári villages of Godhra and Dohad, was carried on till the close of the year. The work of this rough survey has not been included in Appendix No. I, but is shown under the head of Miscellaneous in paragraph 22.

5. The B Establishment was in charge of Azam Jethalal Gulabchand and Chhotalal Shivram throughout the year. It undertook from the 12th November 1897 the measurement concurrently with the classification of 2t villages of Hánsot of the Anklesvar Táluka, which had been left unfinished in the season of 1896-97. After completing the táluka, the party was transferred to the Jambusar and Godhra Tálukas, where it finished the work allotted to it by the close of the field season.

6. The E Establishment under Azam Bapálal Purshotam commenced from the 8th November both measurement and classing work in the tálukas of Broach, A'mod and Vágra, where it continued to work up to the 17th February 1898. From 18th February till the 10th May 1898 it was employed in the revision classification of Kálol Táluka, after which it was engaged in the classification and bandh pahani of the Broach Táluka till the close of the season.

MEASUREMENT.

7. An abstract of Appendix I, showing the amount of measurement work performed during the year under report, as compared with that of the preceding year, is given below:—

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			1896-9	7		1897-98.						
Letter of Establish- ment,		Average Number of hands,	Survey Numbers, including Pot Numbers.	Waalas.	Acres,	Average Number of hands.	Survey Numbers, including Pot Numbers,	T Waslas.	Acres.			
A	•••	. 1	458	2,630	1,194	- 4 <u>1</u>	1,367	8,384	2,878			
B	***	4	, 722	4,192	1,360	61	1,244	7,150	2,915			
E		7	• • • 59	2, 880	1,263	10	7 76	4,870	1,790			
C		17	8,339	29,293	8,413	•••			· •••			
D	•••	141	5,596	28,886	6,881	,			•••			
F	•••	181	5,286	80,704	8,417			•••	***			
Total	, 	52]	15,910	98,585	27,528	204	3,387	19,904	7,583			

From the above it will be seen that it is not possible to compare the present year's outturn with that of the previous year, in view of the fact that there were no measuring establishments in existence, and measurement work was undertaken by the classers at the same time as, and in addition to, the classing.

8. In the following statement is shown the cost per acre of measurement operations. The average cost of all parties in the preceding year was Re. 0-0-5; excluding the area confirmed the cost per acre was Re. 0-13-10;---

Estab- lish- ment.	Name of Head Surveyor.		(Tilo	ka.	·	Confirmed Acres.	Re- mensured Aares.	Total acres.	of measurement	Average Cost of measure- ment per Acre.	
1	1 2 3		•			\$ ·	0	7			
			•						Ra, s		
▲	4	Azam Mohanlal {	Anklesvar Jambusar	•••	••••		951 1,927	5,686 105,261	} 0	0 1	
B	6 <u>‡</u>	Azam Jothalal and Chhotalal {	Anklesvar Jambusar Brosch	***	•••	\$5,355 126,113 3,728	767 2,143 412	86,122 128,261	0	0 3	
E	10	Azam Bapalal and Jethalal . 2	Vigra Amod	848 ' 848 848	••• ••• •••	61,880 8,474	1,291 87	4,140 63,171 8,561	{ o	0 1	
ļ		,		Total.	•••	843,619	7,588	\$51,202	0	0	

CLASSIFICATION.

9. The subjoined statement shows the work of the year under report as compared with that of the preceding year :---

1896-97.						1897-98,					
Average number of hands,	Total Survey Num- bers.	Total Acres.	Average area per Survey Number.	outturn per Classer in		Average	rotal Survey	Total Acres.	Average area per	Average daily outturn per Classer in	
				Num- bers.	Acres,	of handa.	Num- bers,		Num- ber.	Num- bers.	Acres.
551	95,893	145,836	1.52	• 16 1	25	43	66,17 1	239,193	3 [.] 61	19	68

The average daily outturn, both in numbers and acres, compares favourably with that of the preceding year, although the numbers dealt with were of larger area. As regards classification, it will be seen that although the percentage distribution of days is less than the number shown in the previous year, the outturn of classification work, shown in the year under report, compares favourably with the result of the classification of the past year. No loss of time as shown in paragraph 19 of the last year's report occurred in giving instruction to measurers in classification. During a portion of the season, however, operations were carried on in the Tálukdári villages of Godhra and Dohad Tálukas, where the rough nature of the country placed considerable difficulties in the way of rapid work.

Letter of 5 Estab- liah- ment.			Tatuka.	Fields rocies; ed.	Confirmed Acres,	# Beclamal Acres	Total Acrus	Average area per Survey Number.	Average Co per Acre	
		······							Ra. a.	P
	15	Amm Mohanial	Anklesvar Jambusar Godhra (Khálsa) Godhra (Tálukdári)	5,419	74.848 119,338	6,226 30,413 21,402 16,502	38,847 105,261 140,740 26,375	\$*01 4*10 3*95 83*77	}. 0 0	7
			(Dohnd (Tálukdari)	611	38,466	17,530	55,996	28.70	J	
B	13]	Azam Jethalal and Azam Chhotalal.	Anklesvar Jambuar Godhra (Khálsa) Godhra (Tálukdári)	5,749	108.245 63,608	4,154 20,015 23,032 17,664	86,122 198,260 86,640 17,664	1.22 8.50 2.58 6.37	}0 0	9
E	14 <u>1</u>	Azām Bapalal	1 A ID OU	3,203 4,822 106 20, 450		14,127 26,407 1,481 40,240	53.556 142.769 7,488 101,383	4·41 5·47 14·00 1·56	}••	•
ł			Total	66,171	701,908	239,198	941,101	8.63	0 0	ş

10. The cost per acre of classification is shown in the following statement :--

TEST OF MEASUREMENT.

11. Azam Mohanlal tested the measuring work of the A Establishment in 31 villages of Anklesvar and Jambusar tálukas. The number of fields examined amounted to 143, containing 762 waslas of an aggregate area of 333 acres. The percentage test on fields was 10.5, on waslas 9.1 and on acres 11.6; the average difference between original and test measurement being 26 gunthas.

12. Azam Jethalal Gulabchand and Chhotalal Shivram tested the measuring work of the B Establishment in 33 villages of Anklesvar and Jambusar talukas. The number of fields dealt with amounted to 170, or 726 waslas aggregating an area of 326 acres. The percentage test on fields was 13.7, on waslas 10.1, and on area 11.2; the average difference between the original and test measurement being 34 gunthas.

13. The measurement work of the E Establishment was confined to 8 villages of Broach, 18 of Vágra, and 2 of Amod, which had been left unfinished last year. The number of fields tested amounted to 187 numbers divided into 897 waslas and measuring altogether 320 acres, the percentage on original work, being 24 on numbers, 20.6 on waslas, and 17-9 on area. The excess percentage of test is accounted for by the fact that the Head Surveyor, to make up the deficiency pointed out in paragraph 25 of the last year's report, tested 91 numbers and 158 acres of the work done in Amod táluka in the season of 1896-97. The accuracy of the work is established by the average difference between the original and test measurement having been found to be only 16 gupthas per 100 acres.

14. The statement given below shows the tests taken by the officer in charge Linked Party No. 1:--

	Letter o				1.	Difference between test	Pascas	7482.
Wame of Officer.	Establish ment.	. Bature of Te	st. Piałca.	Wasiss.	Å4700.	and tested area.	Mumbers.	Aarea.
					·	A. g.		
ſ	۸.	{ On Head Survey On Measurers .	7079 23 25	19 148	. 31 92	09026	154 1*8	91 31
Er, P. B. Mehts .]	B. -	{ On Head Survey On Measurers		181 107	49 17	0 7 0 10	14-7 1:0	15-0 0-0
l	B.	On Head Sarvey On Moseurers	rons 20	78 29	46 9	0 8	10-7 1-1	16-4 0-5

Mr. Mehta's test of the work of his three establishments is fully satisfactory. It will be seen that the percentage of test taken is in excess of the standard prescribed by the rules, viz., 10 per cent. on Head Surveyor and $\frac{1}{2}$ per cent. on measurers. The average difference in area discovered was 14 gunthas on Head Surveyor's test and 26 gunthas on the work of measurers.

TEST OF CLASSIFICATION OPERATIONS.

15. The work of the A Establishment was tested by Azam Mohanlal in 192 villages out of 207 classed during the year. The fields examined numbered 4,239, of which 1,370 were tested for water only; their total area amounted to 19,728 acres. On survey numbers the percentage of test taken by the Head Surveyor was 25.3, and on the area classed by the establishment 21.4. In the talukdári villages of Godhra and Dohád the work done took the form of a valuation survey, *i.e.*, the separation of cultivable from uncultivable land. This work was taken in hand under the sanction of the Survey Commissioner after Government villages had been completed.

16. The work of the B Establishment was tested by Azam Jethalal and Chhotalal in 123 villages out of 125 classed during the year. They examined 3,631 survey numbers, of which 1,456 were tested for water, or an area in all of 7,195 acres. This gives a percentage of test on numbers and on area of 18.9 and 12.4 respectively. The average difference between the original and test classification was only Re. 0-0-0.3 for soil and Re. 0-0-0.5 for water. One thousand six hundred and sixty-six survey numbers, having an area of 6,840 acres, were classed by the establishment for sub-soil water.

17. Azam Bapalal Purshotam, Head Surveyor, tested the work of his own establishment, the E, in 137 villages out of 145 classed during the year. The number of survey numbers tested amounted to 5,708 and the area to 10,012 acres. This gives a percentage of test of 24.2 on numbers and 15.3 on area. In addition he also examined work in 18 villages of Amod classed by the E Establishment in the season of 1896-97. The number of survey numbers tested amounted to 949, and the area to 1,969 acres. Survey numbers and area tested for subsoil water were 666 and 2,197 out of 5,059 and 17,024 classed during the year. In all, excluding sub-soil, the Head Surveyor tested of the E Establishment 6,657 numbers and 11,981 acres, which gives a percentage of 28.3 and 18.3 on the numbers and area classed by the establishment in the years of 1896-97 and 1897-98. The average difference between test and original classification was found to be 0.80 pies and 0.39 pies on soil and water respectively.

Where, it will be noticed, in certain villages no test has been taken by the Head Surveyors, the measurement and classification operations were of such limited extent that no examination was considered necessary.

, Name of Officer,	Establish- ment,	Nature of Test.	Pu	LDE.	Aares,	ÁVERAGE DI RAYN PE BRYWRRN ON THET CLARM	DINAL AND	- Разсаз	7462.
			Soil.	Water.		Boil.	.Water.	Numbers.	Acres.
		₽.				A, p.	A. p.		
*	▲ {	On Head Surveyor		326 314	4,600 2,889	0 0.56 0 2.59	0 0.65	16-4 3-2	23·8 2·6
Mr. Mehta	В{	On Head Surveyor On Classers	557 896	267 875	1,031 3, 218	0 1.02 0 2.05	0 0-89 0 1-20	15·3 4·7	14-3 3-8
(E	On Head Surveyor	1 411	513 388	1,374 1,182	0 0·10 1 1·31	0 0-16 0 0-28	11-9 2-6	11-8
•				Test	on last	your's wo	r k.		
Amm Baphial	D	On Head Surveyor	81 287	••• •#	39 588	0 6-58 0 1-38	C 5 1	12-5 9-3	11-4 10-8
		On Head Surveyor	71 102	28 86	71 J63	0 11·46 0 5·86	2 1.07 2 8.16	19-7 6-0	4.9

18. The statement given below shows the test taken of the classing work by the officers of linked parties :---

19. Azam Bapalal, under instructions given, examined work done by the F and D Establishments in the previous year. The supervising test taken by him on Head Surveyor's test was 71 survey numbers and 71 acres in 25 villages of Vagra and 31 numbers and 89 acres in 64 villages of Broach. This test works out to a percentage of 19.7 on numbers and of 4.9 on area for the F, and of 12.5 on numbers and 11.4 on area for the D Establishment. He also took independent test on the Classers' work to the extent of 102 numbers and 178 acres and 287 and 588 acres of the F and D Establishments respectively; or a percentage of 6 and 6.3 on the former establishment and 9.2 and 10.8 on the latter.

The returns furnished of the tests on measurement, taken by Head Surveyors in charge of establishments, paragraph 11, and of classification as given in paragraph 15, show that the test of the year under report, also of the arrears of the previous year, both on survey numbers and area, is more than the required percentage, and the error disclosed by the test small.

20. By the death of Azam Bapalal during the year Government have lost a zealous and hard-working servant, whose qualifications were too wellknown to make a reference to the work done by him necessary.

21. Mr. Mehta, in his report on the linked party under his charge, commends the work of Azam Mohanlal Ishwardas, stating he deserves credit for the manner in which he kept his men up to the mark, although he had to deal with the worst villages of Godhra and Dohad.

22. The amount of obligatory office work entailed during the field season, by the loss of records by fire and by miscellaneous work, was as follows :---

MEASUREMENT ESTABLISHMENT.

(1) The copying into the new books of details saved from the fire of 4,239 survey numbers as compared with 2,945 survey numbers in the preceding year.

(2) Comparing the entries of 8,040 numbers as compared with 915 numbers in the preceding year.

(3) Copying into the new books details from Village Form No. I of 84,776 numbers.

Moreover, the A Establishment did the work of separating cultivated lands from culturable in 53 tzlukdári villages of Dohad and Godhra, to the extent of 37,605 acres, of which 7,722 acres were tested by the Head Surveyor.

The B Establishment was employed from 28th May to the 7th of June in breaking up large survey numbers in the 27 villages of the Mehlol Estate, regarding which proposals were submitted to the Survey Commissioner, under this office No. 405, dated 22nd May 1898. A total area of 255 survey numbers divided into 1,831 waslas measuring 553 acres being dealt with.

This work was tested by Azam Chhotalal Shivram, to the extent of 24 numbers, 172 waslas and 45 acres. The cost incurred in the above work will be recovered from the Mehlol Estate. Neither the numbers or area dealt with in Mehlol have been included in the details of measurement and classification done by the establishment previously furnished.

CLASSING ESTABLISHMENT.

(1) The measurement of new rice areas discovered at the time of classification to the extent of 1,613 survey numbers and 1,688 acres. This was of course field work, but not being classing is included for convenience sake under this head.

(2) Copying into the new books from the charred classing books details of 5,336 survey numbers, the figure for the year preceding being 6,749 numbers.

(3) The entry in the classing books of the details of 79,427 survey numbers not dealt with at revision, from the Village Form No. I.

(4) Comparing the entries of 493 survey numbers.

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23. The subjoined abstract from Appendix I shows the percentage distribution of days of the establishments for the past year as compared with the same details of the year preceding :---

			1696-97.	1597-98.
Working Days. Field measurement Boundary-mark inspection Accompanying testing officer Office work		•••	87.62 0.64 5.70 29.56	22·39 21·10 4·35 34·68
· · · · ·	Total	•••	73.52	72.47
Non-working Days. Sickness Villagers not co-operating Rain Travelling Leave and holidays	Total		8.26 4.70 0.60 6.14 11.78 26.48 100.	0.85 4.66 1.50 12.39 8.63 27.53

24. As regards the distribution of working and non-working days, a small improvement, compared with the previous year, is shown on the three establishments.

25. The number of days spent in office work by the A and B Establishments is, however, in excess of last year, while the E alone shows a decrease. This is due to the percentage of measurement of the first two establishments being greater, and to the larger amount of copying work which was thereby rendered necessary.

26. The most noticeable feature in the statement is the increase under the heads of boundary mark inspection and travelling. The first is due to the substitution of khunts for bandhs in villages of the Broach District, subject to annual flooding during the rains, which will be dealt with hereafter. The increase under travelling may be entirely ascribed to the very scattered nature of the measurement and to the transfer during the working season of establishments from Broach to the Panch Maháls. No establishment worked in a single táluka throughout the year; all were employed in four or five. Some slight increase is due to the number of transit days formerly recorded, as leave and holidays, which now—as is the custom in the Deccan Survey—have been brought under the head of days lost in travelling. The percentage distribution of days under leave and holidays is less than that of the previous year.

27. During the year under report, 12 measures (4 from each establishment) were employed from the commencement of the field season in substituting khunts for bandhs in villages of the Broach District, which suffer from annual flooding during the rains. This work was taken in hand at the request of the occupants after the sanction of the Survey Commissioner and Director of Land Records and Agriculture had been obtained. The substitution of khunts for bandhs had to be undertaken in 92 villages distributed over four talukas. Of these, 77 were completed and tested before the close of the working season. In three villages, the substitution was carried out, but the work done by the villagers could not be examined as the bursting of the monsoon necessitated the return of measurers to head-quarters. The occupants of 12 villages, after promising to replace bandhs by khunts, failed, owing to alleged poverty, to carry out their agreements.

28. Much unnecessary loss of time in this work throughout was occasioned by the delay on the part of occupants in building khunts. In some cases measurers were obliged to return to a village 4 or 5 times to complete the inspec-

tion. Arrangements for the villages remaining to be tested will be made during the current season, but in view of the great press of work now in hand before the final close of the survey, no further substitution can well be undertaken. Details of the work completed are furnished in the subjoined statement :--

Num-	Táluka.		Total number of	khunte is	places for disputed d others.	Khant i by Cl	nspection amore,	Test is Asam J	iken by ethalal.
			villages,	Daya.	Sarvey Rumbers,	Daya,	Survey Numbers,	farvey Numbers,	Percent-
	•					1		·	
-1	Broach	***	43	152	4,926	332	9,948	- 454	4.6
80 89	Amod	•••	28	85	2,937	191	7,001	758	10.8
3 4 5	Vágra .:. Anklesvar Jambasar	***	7 5 2	17 10	615 385	66 12 13	2,055 626 824	93 	4 ·5
0	J BIH OUSBI		4	•••	•••	10	944	***	•••
	Total		80	264	8,863	614	19,954	1,805	6.2

29. Similar information as regards the classing establishments is given in the following statement :---

• •			1896-97.	1897-98.
	•••	-		
Working Day	.			
Field classification Boundary-mark inspection Accompanying testing officer	••• •••	• • • •	61.86 0.28 6.67	41·8 1·0 7·0
Office work	•••	-	12·43 81·24	28·02
Non-working Da	y .	ł		•
Sickness Villagers not co-operating Rain Travelling Leave and holidays	••• •• •• ••	 	0·28 1·98 0·07 7·38 9·10	0.58 8.78 0.66 18.58 8.46
Υ			18.76	27.06
		-	100-	100-

30. Here the increase in the percentage of working days under the head of office work is again noticeable. This is due to the book work described in paragraph 22 of this report having increased owing to the miscellaneous character of the season's operations. Days lost in travelling have been fully explained in paragraph 26 above. The percentage decrease under the head of leave and holidays calls for no remark.

81. Appendix Statement No. 8 shows the progress made in the erection of boundary-marks in villages, of which the measurement was completed during the year. From the above, it will be seen that no boundary-mark returns or accounts remained incomplete during the year. The marks erected were to demarcate Government waste land.

82. Appendix Statement No. 4 shows the progress of recess measurement work done during the year. It will be seen that, of the 75 village maps which were shown incomplete in Appendix No. 4 of last year's report, 67 fair maps have been completed during the year. The remaining fair maps of 7 villages of Kálol and one village of Godhra, as well as the fair maps of the villages measured during the year under report, will be taken in hand according to the programme for the completion of recess work sanctioned by the Survey Commissioner.

33. Appendix Statement No. 6 gives details of the differences between test and present valuations. Of the 18,626 numbers tested, 18,239 numbers were found under 1 anna, 221 under 2 annas, 85 under 3 annas and 81 over 3 annas.

34. Appendix Statement No. 7 shows the progress of recess classification work during the year. From the above it will be seen that, of the 172 villages, the recess classification work of which was left unfinished, 147 were completed during the year. The remaining 25 villages of Vágra, as well as the villages shown in columns 6 and 7 of Appendix VII, will be taken in hand during the current season in accordance with the scheme of recess work submitted to the Survey Commissioner.

85. Appendix No. 8 shows the number of maps sent to the Photozinco office and the number of printed maps received during the year. Maps of 282 villages were sent for printing and copies of maps of 35 villages were printed and returned. The charges in connection with this and other miscellaneous work amounted to Rs. 88-13-10 as compared with Rs. 2,462-4-0 in the year 1896-97, or a decrease of Rs. 2,373-7-0.

The total number of forms printed for this survey amounted to 113,700 as compared with 216,615 in the previous year, a decrease of 102,925, due to the reduction of measuring establishments from 1st November 1897. The total cost of the establishment entertained for the above purpose amounted to ks. 2,791-9-0 against Rs. 4,438-8 in the year previous, showing a decrease of Rs. 1,646-15-0. One thousand four hundred and forty-seven maps were mounted on cloth and supplied to the táluka and village officers. The number of revision tracings supplied to talukas was 491.

36. Appendix Statement No. 9 shows the total expenditure of this survey for the year under report, as compared with that of the preceding year. It amounted to Rs. 71,782, as compared with Rs. 97,877 in the year 1896-97, showing a decrease of Rs. 26,095. All heads except the pay of the Superintendent, contributed to the decrease, which is chiefly due to the reduction in the strength of this survey from 1st November 1897. The increase observable in column 4 is due to the higher rate of pay drawn by Mr. J. McNeill, I. C. S., than that drawn by his predecessors, Messrs. E. Maconochie and C. N. Seddon, I. C. S.

37. In Appendix Statement No. 10 is shown the total cost of the survey since 1851-52 and the average cost of measurement and classification per acre. Taking the area actually measured and classed during the year, the rates work out to Re. 0-4-1 and the. 0-2-10 per acre, as compared with Re. 0-13-10 and Re. 0-4-7 per acre in the previous year, showing a decrease of Re. 0-9-9 and Re. 0-1-9, respectively, in measuring and in classing. This decrease is ascribed to the larger area dealt with at the revision survey. Including confirmed acres the average cost of measurement was Re. 0-0-1 and of classification Re. 0-0-8 as compared with Re. 0-0-5 and Re. 0-0-11 in 1896-97.

18. Details of advances for the erection of boundary-marks are given below, as required under Government Resolution No. 694., dated 27th January 1891.

Total advance.	Of which recoverable.	Debitable to Government.
Ra. a. p. 323 8 6		Rs. a. p.
040 G		-

39. During the year under report revision settlement proposals of no taluka were submitted to Government, Mr. J. McNeill having been employed on plague duty in Surat City in addition to the charge of this Survey. The revision proposals for the Chikhli Taluka, submitted by Mr. E. Maconochie in the year 1896-67, have not yet received the sanction of Government. The preparation of akarbands has therefore not been taken in hand, although the period of guarantee expired in 1895-96.

	Head	L			Actual	Oost	•	Rateable p of Nos. 5	end	rtioa 6.	Total	Cost	
					Rs.	8.	p .	Rs.	•	p.	Rs.	•	p.
1.	Measurement				1,883	12	7	567	7	1	1,951	1	8
2.	Classification			•••	87,968	8	1	11,466	1	4	\$9,432	9	5
3.	Settlement	** 5			11,524	2	9	18,071	8	6	29,595		8
4.	Miscellaneous			•••	803	0	0	•	•		808		Ō
•	• •	To	tal.	 	4 1,677	7	5	80,105	0	11	71,782	8	4
5.	Deputy Superinte expenses of his	ndent's sal office	-	ad	21,067	Q.	n		•				
6.	Proportion of Sur office and his s	vey Commi	seione		6,038	0						••	
		יידע	otal		80,105	0	11				<u> </u>		

The expenditure of Rs. 803 under the head of Miscellaneous was incurred in connection with the deputation of 7 subordinates of this survey on plague duty. These men did no work for this survey although they were paid by it. The plague duty lasted continuously from the 8th November 1897 to the 5th May 1898, except in the case of three subordinates who were employed for the periods shown below :---

1 from 1st February to 5th May.

1 from 8th November to 10th March.

1 from 8th November to 30th April.

41. The financial results of the Gujarát Revenue Survey in Khálsa villages since the introduction of the revised rates are tabulated below :---

G 11 - AA-	Tálu						overnment d Land in	8 0ć	l.	Differe		L	Total in		
Collectorate.		, .		The year to Settle			1697-	98,•				•	aince Seli	tlem	eni
	•			Re.		p.	Le.	8.	p.	Be,		p .	Re,	٠.	p.
ſ	Dholka	~		1,87,766		5	\$,03,817		5	15.050	8	0	2,55,481		9
4.	Dhandhuka			65,225		1	71,249			16,016		11	1,85,392		
Abmedabed	Daskrol	***	•••	3,34,656 1,63,643	1	6	8,83,421 1,94,509			48,764 80,859		78	4,83,926		7
	Virangin Parántij		***	1,03,045		Ă	1,25,216		10	1.756		6	3,81,583 72,151		1
լ	Parantij Sánand	***	400	1,46,420		2	1,48,729		Õ	2,308			41,959		7
		Total		10,11,172	1\$	6	11,25,929	5	0	1,14,756	8	•	18,20,445	14	8
r	Mátar	•••		2.65.370	7	9	8.70.722		8	5,351	10	11	44.147	16	0
	Mehmadabad			2 31 417	Š	ō	\$,50,883	14	ō	19,465	9	ō	69,112		ō
	Borned			8,29,080		0	8,57,046	15	0	27.966	n	0			Ō
Kaira	Nadiád	***		8,44,640		0	8,77,989	-	8	88,298		. 9			2
()	These	***	•••			1	3,12,441	1	0		ų.		81,853		6
	Kapadvanj Anand	***		3,54,767 3,63,682	1	00	1,54,911 4,08,108	14	0	143 39,430	7 19	8	• 942 99,066		0
-		Total		18,90,824	14	11	20,27,086	8	10	1,86,761	6	11	4,10,114	4	8
	Bárdoli			4.22.751	0	ò	4,61,497	Ð	0	88.746	0	0	\$8,746	0	0
Surst {	Chorial	***		1,98,88\$	Ŭ.	9	2, 16, 563	7	•	17,669	15	•	17,669	15	Ó
		Total		6,21,634		•	6,78,050	7		56,415	15	ö	86,415	15	0

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42. No Junior Civilian during the year under report was attached to either measuring or classing parties.

43. Arrears of measurement and classification have been made up during the year under report. There, therefore, only remains for completion (under the head of field work) the miscellaneous work noted in this office No. 533, dated 4th July 1898, to the address of the Survey Commissioner. As regards recess work, all arrears of classification, which had accumulated owing to the disarrangement of establishment at head-quarters due to plague, have been made up. Under this head therefore there remain 68 villages of Vágra, 85 of Jambusar, 135 of Godhra, and 56 of Kálol, the field work of which was completed in the fair season of 1897-98, as set forth in this office. No. 910, dated 28th October 1898. The work of this survey is within the programme and can be finished during the period estimated.

W. S. COLE,

Deputy Superintendent, Revenue Survey, Gujarát.

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PROGRESS REPORT OF THE DECCAN REVENUE SURVEY FOR THE YEAR ENDING 31st OCTOBER 1898.

No. 1356 OF 1898.

Camp Devla, District Násik, 17th December 1898.

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Changes and Promotions.

Mr. A. Brownlow Fforde, Superintendent, Deccan and Gujarát Revenue Surveys, was the controlling officer of this survey up to 80th June 1898 when the

•Vide Government Resolution No. 4145, dated 22nd June 1898.

appointment of the Superintendent ceased[•] to exist and Mr. Fforde reverted to his original appointment of Deputy Superintendent, Deccan Revenue Survey. About a fortnight before his reversion, however, he

took charge of the office of the Survey Commissioner and Director, Land Records and Agriculture, under Government Resolution No. 3826, dated 8th June 1898. During this time, he retained charge of the Superintendent's office and, on 80th June in the afternoon, he delivered over charge of the Deputy Superintendent's office to Mr. F. B. Young, Superintendent, Land Records and Agriculture, Central Division, who was appointed to act for him by Government Resolution No. 4145, dated 22nd June 1898. Thus the control of this survey was in the hands of Mr. Fforde during the fair season and in the hands of Mr. Young during the major part of the monsoon.

2. Mr. H. L. Holland having been deputed on plague duty by Government Notification No. 6514-4310-P., dated 23rd November 1897, delivered over charge of his office on 8th November 1897 in the forenoon to Mr. McIver, Assistant Superintendent, Konkan Revenue Survey, who was transferred to this survey, *vice* Mr. Holland, by Government Resolution No. 8523, dated 22nd November 1897.

3. By Government Resolution No. 4246, dated 28th June 1898, Mr. Mo-Iver was appointed to act as Assistant Settlement Officer with effect from 8th November 1897.

4. Mr. McIver having been transferred to the Konkan Survey under instructions from the Survey Commissioner and Director, Land Records and Agriculture, communicated by him below Government Resolution No. 4402, dated 29th July 1893, in his No. $\frac{8}{1230}$, dated 4th August 1898, delivered over charge of his office under the same authority to Mr. J. W. Whitcombe, Assistant Superintendent, Marátha States Survey, an 6th August 1898 in the forenoon, retaining charge of his settlement duties in the Deccan Survey.

5. Mr. J. W. Whitcombe was appointed to be sub. pro tem. Fourth Grade Assistant Superintendent, Deccan Revenue Survey, by Government Resolution No. 5790, dated 8th September 1898.

6. Mr. Laxuman Vasudeo Bhide, Head Surveyor in charge B Establishment, was promoted from Rs. 100 to Rs. 125 with effect from 1st April 1895 by Survey Commissioner's No. $\frac{4}{500}$, dated 19th April 1898. He was allowed 30 days' privilege leave from 22nd May to 20th June 1898 under sanction from the Survey Commissioner and Director, Land Records and Agriculture, contained in his No. $\frac{6}{500}$, dated 20th April 1898. During his absence the B Establishment was supervised by Mr. Purshotam Rámchandra Nimtándár.

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Strength of the Survey and Duration of the Working Season.

7. As last year, there were only two parties at work in this survey, one wholly composed of measurers and the other a mixed party of measurers and classers. They formed a linked party and were supervised by Mr. Molver. During They formed a linked party and were supervised by Mr. Molver. During the monsoon of 1896-97, 2 measurers and 2 classers died of cholera and 2 the monsoon of 1896-97, 2 measurers and 2 classers died of cholera and 2 measurers and 1 classer were retired on pension. A few vacancies, which occurred during the previous years, were also not filled up until the year under report. To make up the complement of this survey it was, therefore, necessary report. To make up the Gujarát and Konkan Surveys. Accordingly early in to obtain hands from the Gujarát and Konkan Surveys. Accordingly early in the season, 8 men, who had previously worked in this survey, were obtained from the Gujarát Survey, and 3 men from the Konkan Survey. Later on it was found necessary to reinforce the parties in order to keep the work up to the programme of 1996. Eight Circle Inspectors were therefore obtained from the

Letter of Establishmen		Measurers	Classes.
A	. { _ {	28 27 12 13	 7
Total	. {	85 40	• 7

N.B.—The upper line of figures refers. to the preceding year. Collector of Khándesh in March and 2 from the Collector of Násik in April. Of the men from the Gujarát Survey 7 were put on measurement work and 1 was employed as a classer. The 8 Circle Inspectors received from the Collector of Khándesh did measurement work and the 2 obtained from the Collector of Násik assisted in classification. Two Circle Inspectors out of those employed on measurement work absented themselves from duty on plea of ill health almost from the beginning, and consequently were not of much use. The total strength of the survey, after the additions and subtractions noted above, stands as detailed in the margin.

8. The recess work was closed in Poona on 23rd October 1897, and the field work was commenced on 2nd November 1897. The field work was closed on the 5th June by the A Establishment and on the 3rd June 1898 by the B Establishment.

Measuring Operations.

9. During the year under report, there was, in addition to the proper work of measurement, the sub-division work in the unsettled villages of the Nandurbár and Taloda Tálukas of the Khándesh Collectorate. These villages had already been measured and classed; but while their settlement proposals were under discussion, a question arose whether survey numbers, which were considered unmanageably large, should not be sub-divided. Ultimately it was decided that such numbers should be sub-divided. A set of rules was accordingly drawn up under instructions from the Survey Commissioner and Director, Land Records and Agriculture, and work was commenced according to them in anticipation of his approval, which was conveyed in his No. sit, dated 9th March 1898.

. One establishment was employed on this work for 3 months from March to May. The principal features of the work were briefly these:---Measurement was necessary where several occupancies were found clubbed together to form one survey number. Where a large survey number in the occupation of one individual had to be sub-divided, much of the work could be accomplished, without recourse to measurement, by means of scale and compass. In no case was Bándhpaháni necessary as demarcation was dispensed with. Each field had, however, to be visited to see if it required sub-division.

As the incorporation of the figures concerning this work with the figures relating to proper measurement would only cause confusion, they have been separately shown in the appendices and have been separately reviewed in paragraphs 20 to 24 below.

Proper Measurement Work,

10. The Kalvan Táluka of the Násik Collectorate still awaited completion, but the villages which remained over lay in the western portion of the táluka. As the loss of time through sickness was inevitable if the establishments had been employed there from the beginning of the season, work was commenced in the eastern portion of the Pimpalner Táluka of the Khándesh Collectorate where the climate is comparatively healthy. About the middle of Jaunary work was commenced in Kalvan. In Pimpalner a total of 71 villages was measured according to revision and in Kalvan 6 villages were measured according to original and 19 according to revision survey.

11. The subjoined table is a précis of Appendix I and contains details as regards average strength, outturn and cost contrasted with the figures of the preceding year:--

Retab-	Атетаде	Name of Supervising	Name of Officer in Immediate		MRASURED,	•	۸ ۰	era	g.
iish- ment.	hunber of men.	Officer,	charge.	Fields,	Vaslas.	Acres	Cou		ěr –
1	8	*	4	5	•	7		8	
							Re.		p .
▲ {	31.40	ר ר	Mr. P. B. Phadke, Survey (13,501	80,735	\$14,978	•	2	
- 1	28-96	Mr. J. A. McIver,	Mámlatdar. (11,98 6	54,517	1,46,594	0	1	3
B {	19 35	Acting Assistant Settlement Officer.	Mr. Laxuman Vusudeo, Head Surveyor and Mr.	e,nas	\$7,500	84,047	•	8	1
· (12-85) (Purshotam, Bamchaudra, Nimtandar,	8,300	51,25 8	99 985	0	1	•
	H-58	•	Total for 1896-97	19,336	193,595	179,021	0	1	*
	86-58	l	De. 1897-99	\$0,286	1,06,075	9,46,549	0	1	6
	1.85		Increase	960	3 ,180	67,526	•		9

I.R.-The upper line of figures refere to the proceeding year.

Last season this branch of the work lost 5 months owing to the deputation of the two Deccan parties to the Konkan districts for 21 months; during the season under report it lost 3 months of one establishment, *i.e.*, 2 months less than in the previous season, owing to the deputation of the A Establishment on the sub-division work referred to in paragraph 9 above. The average strength is larger by 1.85. Thus the season under report has a two-fold advantage over the previous season. It has increased time and enlarged strength. The outturn is therefore naturally larger; the cost per acre however is less, which is satisfactory. Further evidence of its satisfactoriness is found in the analysis

,	1896-97.	1897- 98 ,
	Acres,	Acres
Bevision Original	1,79,023	2 ,38,033 8,516
Total	1,79,023	2,46,549

of the outturn which is given in the margin in contrast with the figures of the previous season. In 1896-97 there was no original survey work at all. In 1897-98 there are 8,516 acres of original survey work. Notwithstanding this, the cost per acre has come down from Re. 0-2-2 to Re 0-1-5. The increased outturn is not, however, the sole cause of the decrease in cost, part of which is also attributable to the reduced rateable proportion of the cost of monsoon examination and of the.

Superintendent's office expenses. Last year the examination, &c., of 5 months' field work absorbed 5 months of the monsoon. For the year under report $5\frac{1}{2}$ months' field work absorbed 4 months of the monsoon.

12. The A Establishment was in charge of Mr. P. B. Phadke, Survey Mámlatdár, throughout the season. It commenced its A Establishment

A Establishment. work in the Pimpalner Taluka of the Khandesh Collectorate. The work was all revision and was done according to Partial system. The villages dealt with were in the eastern portion of the taluka. Forty-six villages were measured in all. The work proceeded westwards. The party remained in Pimpalner till the middle of February; it was then moved to the Nandurbár Táluka for carrying out the special work referred to in paragraph 9 above, which has been separately reviewed in paragraphs 20 @ 24 below. The following remarks are therefore confined to the time for which the party was in Pimpalner. The average strength has increased by 1.58, three men of those obtained from the Gujarát Survey having been enlisted in this party, though only 2 vacancies were caused by contingencies detailed in paragraph 7 above. The days under measurement show a decrease of 8.30 per cent. due to the small area of Patastial lands as compared with that in Kalvan dealt with last year. There is a small increase of 4.80 per cent. under "Bandh Pahani," due to nonco-operation of the villagers which necessitated revisiting the fields awaiting Bandh Pahani. Under "Villagers not co-operating" an increase of 3.55 per cent. is noticeable, due to negligence on the part of the Mámlatdár of the táluka, who in the early part of the season failed to take any steps to remove the hindrance repeatedly brought to his notice. The loss of time under "Travelling" shows a considerable reduction, being 4.53 against 7.55 of the last year, obviously for the reason that the journey to the scene of operations was much shorter. The head "Leave and holidays" shows a small increase, which is accounted for by the necessity to grant more leave on urgent private affairs. Other heads show minor differences and call for no comment. The working days show a reduction of 3.58 per cent., but, as explained above, the loss of time was unavoidable. The cost per acre has decreased by 1 anna.

13. The B Establishment was under the immediate supervision of Mr. Laxuman Vasudev Bhide, Head Surveyor, except that

B Establishment Measuring Section. towards the end of May he was granted privilege leave, when the establishment was under the supervision of

Mr. Purshotam Ramchandra, Nimtandár. It commenced work in Pimpalner simultaneously with the A Establishment. The work it did in this táluka was all revision and according to Partial system. The average strength of the establishment is practically the same as that of last year. In all, 25 villages were measured by the establishment while in Pimpalner. As it was necessary to complete the Kalvan Táluka before the end of the season under report, the establishment was moved to that taluka about the middle of January. Here it completed all the villages which stood over from the previous season. Six villages were measured according to original and 19 villages according to revision survey. As in Pimpalner, the revision work in this taluka was carried out according to Partial system. The increase of 4.50 in the days under measurement is due to the survey work done during a part of the season being original. The decrease of 3.38 under "Bandh Pahani" is attributable to the discontinuance of the practice of putting up intermediate mounds for reasons communicated to the Survey Commissioner and Director, Land Records and Agriculture, in this office No. 183, dated 23rd February 1898. The figures under "Sickness," "Villagers not co-operating," "Travelling" and "Leave and holidays" all alike show less time lost to work. "In-door work" exhibits an increase, but this was due to the original survey work. The working days of the season show an increase of 8.62 per cent., which is satisfactory. The cost per acre has decreased by 4 pies, which is a smaller decrease than that observable under the A Establishment. The difference is attributable to the original survey work done by the B Establishment,

14. The percentage distribution of working and non-working days for the seasons of 1896-97 and 1897-98 has been tabulated below for the sake of comparison.

			3896-97.	1897-98
Working Day	· .	ŀ		
Measuring	, 		19-52	17.62
Boundary-mark inspection			50.44	5 1•18
Measurement of boundary di	sputes, &c.		5.18	4.90
In-door work	•••	***	1.89	3.3
	Ţotal		77-03	77.04
Non-working Do	ıya.	. [
Sickness	•••		5.68	
Villagers not co-operating	•••		2.11	5·09 3·77
Rain		1		
Travelling	•••		8-67	0-8'
Leave and holidays	•••	••••	6.51	6·8:
	Total		22.97	22.9

STATEMENT No. 1.

PROGRESS OF WORK IN THE DECCAN REVENUE SURVEY.

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STATEMENT No. 1.

Progress of work in the Decean Revenue Survey.

													k in the Dece			······					<u></u> :		<u> </u>	<u> </u>		_
	WORK	PROPOSED MR. C	TO BE ACCO	MPL POR	15 42 T No.	d IN 811	тне 87, D.	YBAR ATED	S 18 20гн	96-97 1 May	CO 18 1896	3 99- 1900	AS PER		WOBE .	ACTUALLY	V.C.C.	OMPLI	SHE	DINI	LHE .	YEAR.	•			
					ASURE		1	CLASS			1 8	STTLE-]					MEASU.	RIME	¥7.	C		IOATIC	D N.	BET	
				Fie Wo		Rece Worl		Field Vork,		Roc eas Work.	Nu ♥i	mber of llages.					Field	d Work.	R	ecens ork.	Field	Work.	Be	cess ork.	Numi Ville	Jer (
* *	District.	Táluka.	Government or Ináw.	Number of Villages for Original Measurement.	Number of Villages for Revision Measurement, Number of Villages for	Original Measurement. Number of Villages for	Number of Villages for	Number of Villages for Bevision Classification.	Number of Villages for Original Classification	Number of Villages for Revision Classification.	For Original Settlement.	For Bevision Settlement.	D to of expiry of current Settlement,	District.	Táluka.	Government or Inim.	Number of Villages for Original Measurement.	Number of Villages for Revision Messurement,	Number of Villages for Original Measurement.	Number of Villages for Revision Measurement.	Number of Villages for Original Classification,	Number of Villages for Revision Classification.	ਙਰੋ	Number of Villages for Revision (classification.	For Original Settlement.	For Revision Settlement.
	1	2	8 '	•	5 (1	1	9	10	11	12	38	14	1	3	8	4	5	6	7	8	9	10	n	12	18
	•	·	· · ·	-		_	18	96-97.		<u> </u>											1896	i-97.				-
	Násik	Kalwan	Government		90 .	. 90	1	80	1	80			*****		í .]		}] 、	1					ł
	N45ik {	Chándor Niphád Nasik Sinnar Málegaon	Do Do Do		1		4	1 1 2	8 4 	1 1 3		•••• ••• ••• •••	31st July 1883 31st July 1886, Do. 81st July 1897.		Kalvan	- Government		. 118		118	1	52	1	49		
. •	Abmed n a.	Akola Jámkhed Shrigonda Karjat Nagar Sangamner Newán	Do Do Do Do	2	. 1 3 1	 8	3 1 2 1 	 1 8 3	\$ 1 2 1 	 1 3 * 5 1	 	· · · · · · · · · · ·	31st July 1883. 81st July 1883. Do. 31st July 1883. Do. 100.	Násik	Niphád Chandor		• · · ·	••••			4	•••	4			
	Khandesh .	faloda l	Do	1.	1 2		1	8 2 1	1	8 2 1			31st July 1891. 31st July 1898. 31st July 1892.													
1	Poons 2 P	himthadi	Do		 1 2	11	1	 1 2		 I 2	:::		81st July 1886. 81st July 1884.													
		lin	Do		8 2 9	29		- 8 2 9	:: :: 5	3 3 9			81st Jaly 1889. 31st Júly 1888. 8ist J 1ly 1890.						-							

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lganm }	Chikodi .	. Do.					9	•••	9	••••	1	1	•=+	408****	Khándesh.	Taloda	Do Do		34	 			•••		•••	17	934 999
- `							1	 18 9 7		•••	9			81st July 1883.	4.	Chálisgaon Pimpalner Dhulia	Government.		71	•••• •••	71	 	12	••••			2
aik	. Kalvan ,	1	rament	6	41	6	41	14	79	14	79			*******		Málegaon			•••					••••			148
hándesh	Pimpalner.			• •••	64		64		=64		64		+ 4 m	•		Baglán Nandgaon	Do.		+++		***		***	••••	***		139
isik and Ahmed- Bagar.	Tiluka as under l	d etailed n ám.	abov	·					••••		•••	14	18		N4eik	Yeola Ch'indor Peint	Do Do Do	, ,		•••	••• •••		•••	···· ····		86	*** ***
-	1	1						1898	99,					1	- -	Kalvan			19	6	19	14	108	14	103	•••	• • •
	Pimpelner.			. 1	95	1	93	1	93	1	95	1	159	sea. as	Poons		Government		•••		•••	•••	•••	•••	•••	1	•••
	Kalvan .	ם (ו				•••			***			15	159	*****	Sátára	1	Inám		•••	••••			•••		145		1
handesh vona 🔐	.														Dhárwár		Government.		•	•••	•••		***	•••	•••	••••	8
iol ápne itar a elgaum	} Táluka as under] J	d'staile n ám, 	i abov	•					•••	••••	···· `	•	36		Nagar .	Kopergaon	Do		•••		•••	•••	•••	••••	2†	3 	• • • • • •
		(Ad	litiona	1 00	r je de	 Tol 12	ed a	imre	Mr. O	-	er Py	ogra	т т .)			. :											
leik	. N4sik .	Gove (by	inthen Inde ng lap	ι	Ι.		1		1	•••	ł			81st July 1888,	,				-				-				٠
hàndesh	. Pimpalner	Gove	rnmen trausfo n Bag	r			1		1		1		•	8].st July 1894.				.									
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eigena	Chikodi .	. Do	••	. 1	2	1	2	Ι.	2	1	-	I ł		\$1et July 1883.				}		Í			1				

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. * Half the village has already been measured.

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† Work just over just emens completed this year.

W. P. SYMONDS, .

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Acting Survey Commissioner and Director, Land Records and Agriculture.

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Progress of work in the Gujarát,

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			Į	MEASUI	RRATHT.			CLASSI	ICATION.	•	SETT	LEXE
			Field	work.	Recen	work.	Field	work.	Recen	work.		nber of llages.
. <u> </u>	38TJ.		of vil- lages for Original	of vil- lages for Revision	of villa- ges for Original	of villa-	of villa- ges for Original	of villa- ges for Revision Classifi-	of villa- ges for Original	Number of villa- ges for Revision Classifi- cation.	Origi nal	Revisi Settle men
	1	<u>`</u>	2	8	4	5	6	7	8 .	9	10	11
•	•	<u> </u>									GU.	JARA
1896-97	•••	•••	22	598	, 22	5 98	•••	825		825		60
1897-98	•••		•••			•••	•••	204		204	•••	84
1898-99		***	••••	***	4		•••	67	•••	67	••••	427
1899-1900	•••	•••	•••	•••	·	•••		191		191	. 22	894
•	Total	••••	22	598.	22	598	•	787	***	787	22.	96
·		I						[[DF	
1896-97	•••	•••	11	129	114	129	24	129	23	129		
1897-98			. 6	105	6	105	14	143	14	143	14	18
1898-99 Additional volved Ozanne's	since	de- Mr. pro-		95	1	95	1	95	1	95	25	854
gramme	•••	 Pro-	5	4	5	5	- 8	5	8	× 5	•••	
•	Total	•••	23	833	28	834	47	372	. 46	372	89	367
•						•••					KO	NKA
1896-97	•••	•••	 •	136		136		659		685		276
1897-9 8	•••	•••		212		212		1		1		283
1898-99	•••• [·]	•••					•••					942
~ ·	Total		···	3 48	,	8-18	•••	660	••••	686	•••	1,501
Grand	Total	•••	45]	1,279	451	1,280	47.	1,819	48	1,845	61	2,883

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MENT No. 2.

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Deccan and Konkan Revenue Surveys.

	•			MBARDI	lixbri.			CLASSIT	10 4 7103.		811TL	in Ruy.
``.	٠		Field	Work.	Becen	Work.	Field	Work.	Reces	Work.	Num ville	ber of 1506.
Y .	16.79-		of villa-	of villa-	of villa- ges for	of villa-	of villa- ges for Original Classi-	of villa-	of villa- ges for Original Classifi-	ges for Revision	For Original	For Revision Settle- ment.
	1		2	8	6	5	6	7	8	9	10	11
SURVE	Y.						· · · · · ·			j <u> </u>	<u> </u>	
1896-97		**•	•••	412	•••	409	•••	492	•••	828	2	. 61
1897-98	•••	•••	27	227	27	180	27	477	27	210		
						•••	• •••	••••				
	•						•••	•••				
	Total		27	639	27	539	27	9 69	27	538	2	61
SURVE	Y .		•	/ 				 				
1896-97				118		118	. 8	52	8	49		
1897 -9 8	•••		6	272	6	90	14	121	14	128	40	288
							•••				` •••	•••
					`.					、	*	
	Total	•••	6	890	6	208	22	178	22	172	40	288
SURVE	¥.											
1896-97			***	201		201		659		474		559
897-98		•••	!	147		147		879	•••	857	8	730
					•••				•••			
	Total	, ,,,		848		848	••••	1,038		881	i 8	1,289
`C:_⊪'	Total	•-	85	1,877	83	1,095	49	2,180	49	1,541	45	1,638

W. P. SYMONDS, Acting Survey Commissioner and Director, Land Records and Agriculture.

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"Annual Progress Reports.

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Survey Progress Report of the Presidency proper for the year ending \$1st October 1898.

No. 3469.

REVENUE DEPARTMENT.

Bombay Castle, 17th May 1899.

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Letter from the Survey Commissioner and Director of Land Records and Agriculture, No. a. -36, dated 1446 January 1898. of the Revenue Survey Department of the Bombay Presidency for the year ending 31st October 1898.

Letter from the Survey Commissioner and Director of Land Records and Agriculture, No. 8.—575, dated 28th March 1899.—Submitting, with his remarks, statements showing the progress made in the completion of the operations of the Survey Department during the year 1897-98.

RESOLUTION.—The Gujarat Survey establishment was reduced from six parties to three. Field operations were wound up by the completion of the work in the Broach and Panch Mahals Districts. The areas for measurement were small, and the work was entrusted to the classing parties; sufficient tests were taken and the accuracy of the work was satisfactory. The recess examination remaining will be completed by the end of December 1899. Owing to the ideputation of Mr. McNeill on Plague duty, no settlement proposals were submit-

•	Bulair, Párdi.	1	Jalálpoz

ted during the year. The reports for the three talukas of Surat, shown in the margin, are stated to have been now taken in hand. The Survey

Commissioner guarantees the timely completion of this work. Six talukas are

Hálol.	♥ Vágra.
Godhra,	A'mod,
Kálol.	Jambasar.

entered in the programme of revision settlements to be prepared in 1899-1900. Owing to the contraction of operations, their cost decreased from Rs. 97,877 to Rs. 71,788. The rates per acre for

the areas actually measured and classed show a decrease from As. 13-10 and 4-7 to As. 4-1 and 2-10 respectively. This decrease, as often explained, is due to the different character of the work done, not to any change of method or economy of administration.

2. The Deccan establishment consisted of two parties—one of measurers and one of mixed classers and measurers—as in the year 1896-97. Their strength was however increased from 41 men to 47. The operations were conducted in four tálukás of Khándesh and one of Násik, and comprised measurement in 278 villages and classification in 135. Sufficient tests were taken and the standard of accuracy was fair. Recess work in both branches was brought up to date. The strict recognition by the villagers of the boundary lines and the co-operation elicited in the erection of marks lightened the labour of the measuring parties. Settlement proposals were submitted for the tálukás of Málegaon and Báglán and for 85 isolated villages in various tálukás and are now awaited only for the tálukás. Owing to the difficulty that was experienced in the year under review from the necessity for the sub-division of large numbers in unsettled villages of Khándesh, it has been found necessary to further strengthen these parties by the addition of men from the Konkan Survey, and the Survey Commissioner anticipates no hitch in completing the operations by the date prescribed—October 31st, 1899. The cost of the survey increased from Rs. 61,267 to Rs. 65,197. This is due to the increase in the areas covered. The cost per square mile shows a substantial decrease.

3. The Konkan establishment comprised ten parties - a, reduction of one from the cadre of 1896-97. In the early part of the year the parties were all employed upon the sub-division of clubbed occupancies in four talukán of Thána District until the improvement of the climate enabled them to undertake the measurement of Dáhánu Táluka in the middle of January. The completion of this work within the year, which was necessary in order to enable the settlement proposals to be taken in hand within the time promised, was creditable to the officers concerned. The Survey Commissioner is also satisfied with the outturn of phaini work. The operations in this survey are in advance of the sanctioned programme, and Government agree with the Survey Commissioner in his commendation of both the superior officers and subordinate establishment. The cost of the survey decreased from Ra 2,03,757 to Ka. 1,48,473. If, as Mr. Symonds fears, the amount of phaini work to be done has been 'under-estimated', no time should be lost in enbmitting revised proposals.

tory. There was no change in the establishment; owing to the hilly nature of the country traversed, there was a considerable decline in the area measured and classified. The supervision exercised was adequate, and the cost was reduced from Rs. 45,101 to Rs. 42,898. Revised rates were introduced into 31 villages of the Shirol Táluka.

5. The following statement compares the areas measured and classed in ' the last two years in each division of the British districts with the strength of" the respective establishments:---

• .	B			th er Its.	ARTEA MI	RASURED,	ARBA	OLASED.	•
	386	18-9T.	181	F-96 1			·	· ·	REMARKS.
· · ·	M and Think	Classer.	Monaurers	Gang.	1896-97;	1897-96;	1896-97,	1897-96.	
1	3		. 4.	5	8	7	8		• 10
n jardė	. 52 <u>1</u>	555	305	43 {	Acres. A. M. 27,528 C. 900,629 884,050	. Acres. A. M. 7 598 C. 1848,619 851,202	Acres. A. Cl. 145,836 C. <u>897,140</u> 702,976	Aaree, A. Cl. 299,198 C. 701,908 941,101	•
60048	-85	6	40	7	A. M. 8,558 G. 170,470 978,028	A. M. 13,096 C. 983,458 246,549	A. Cl. 29,960 C. 109,480 139,590	A. Cl. 38,019 C. 176,198 213,208	* Exclusive of 18 maa transferred to the Lo Survey.
	†160	77	147	348 {	A. M. 146,620 C. 119,654 204,314	A. H. 127,000 C. 145,691 1272,734	A. Cl. 194,097 R. 530,096 C. 117,648 761,841	}],944 	 Inclusive of 18 mean transforred from the De Survey. Besides the areas mean and classed during the 1897-96, phaini work b extent of 197,786 across
Total	2873	1884	907	102	1,827,387	870,475	1,604,907	1,145,248	performed.

P GORRENOE,

R. examined for position elast,

6. The Department was in charge of Messra. Hearn, Muir-Mackenzie and Fforde for 2½, 5 and 4½ months respectively. The status of the heads of the several branches was reduced from Superintendent to Deputy Superintendent, and various changes in the tenure of the posts were occasioned by temporary promotions and retirements. His Excellency the Governor in Council observes with pleasure that the Department has outstripped the progress of operations anticipated in the programme sanctioned, and considers that the officers who have held charge of the several divisions deserve commendation for the results attained.

H. S. LAWBENCE,

Under Secretary to Government,

The Commissioner, N. D.,

The Commissioner, C. D.,

The Commissioner, S. D.,

The Commissioner in Sind,

The Survey Commissioner and Director of Land Records and Agriculture,

All Collectors in the Presidency proper,

The Private Secretary to His Excellency the Governor,

The Conservator of Forests, N. C.,

The Deputy Conservator of Foresta in charge C. C., The Conservator of Foresta, S. C.,

The Accountant General,

The Public Works Department of the Secretariat,

The Political Department of the Secretariat.

The Government of India.

The Secretary of State for India, By letter.

of 1899.

Copy forwarded for information and guidance to

No.

With copies of the reports of the Survey Commissioner and Director of Land Records and Agriculture and of the Deputy Superintendents.

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PROGRESS REPORT

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OF THE

KONKAN REVENUE SURVEY

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For the Year ending 31st October 1898.

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PROGRESS REPORT OF THE KONKAN REVENUE SURVEY FOR THE YEAR ENDING 31st OCTOBER 1898.

No. 1456 or 1898.

Konkan Survey Deputy Superintendent's Office, Kolába Districts, Camp Bhoráv, 16th December 1898.

Changes and Promotions.

Mr. E. H. Hearn, who was Acting Survey Commissioner and Director, Land Records and Agriculture, on the 1st November 1897, continued in that capacity until Mr. J. W. P. Muir-Mackenzie's return on the forenoon of the 15th January 1898, when he reverted to his substantive appointment as Superintendent. Mr. Hearn retired from the service from the 9th April 1898, when the Superintendentship of the survey was abolished, and the department made a Deputy Superintendent's charge.

2. Mr. A. G. Hudson acted as Superintendent, while Mr. Hearn was Acting Survey Commissioner as mentioned in para. 1 above. From the 9th April 1898, when the Superintendentship was abolished, the account branch of that office was taken over by the Survey Commissioner, and the other ordinary duties of the Superintendent were carried on by the Deputy Superintendent.

3. Mr. W. S. Cole, Assistant Superintendent, acted as Deputy Superintendent from 1st November 1897 till 15th January 1898, when he reverted to Assistant Superintendent. Mr. Cole gave over charge of his duties in this survey on the forenoon of the 30th May 1898 and proceeded to Surat to take up his appointment as Deputy Superintendent of the Gujarát Revenue Survey.

4. Mr. W. D. Wilkins, Assistant Superintendent, carried on, in addition to his own duties, the work of Mr. Cole on his transfer to Gujarát. Mr. Wilkins proceeded on three months' privilege leave on the 6th August 1893 and handed over charge of his duties to Mr. J. A. McIver on the 5th August 1898, in the afternoon.

5. Mr. J. A. McIver was appointed to act as Assistant Settlement Officer, Deccan Revenue Survey, and handed over charge of his duties in this survey on the 8th November 1897. He was, however, retransferred to the Konkan Survey as Assistant Settlement Officer on Mr. W. D. Wilkins taking leave as noted in paragraph 4 above.

6. Mr. H. V. Sathe, Assistant Superintendent, was transferred from the Gujarát Revenue Survey on the 6th November 1897.

7. Five Head-Surveyors, eis. Ráo Sábebs Parsharam Purshotam Gangal, Narayan Govind Agarkar, Waman Chintaman Gangal, Trimbak Pandurang Gangal, and Narayan Bhikaji Belekar, were made to retire on the 5th November 1897. These men were replaced by Nimtandárs Dhondo Narayan Gore, Vishnu Gangádhar Jog, Sakharám Ládoji Mhapankar, Swámirao Jairao Betigiri, and Hari Gopal Mavande. In consequence of the death of Ráo Saheb Anant Narayan Kalamkar, Nimtandár Antaji Laxuman Joshi was appointed in his place on the 3rd November 1897. Rao Sáheb Mahadeo Hari Paranjpe was retransferred to the Revenue Department from the 5th November 1897 and an establishment was then abolished.

8. The continuance of the Phalni Establishment was sanctioned under Government Resolution No. 7434 of the 11th October 1897.

9. Mr. A. G. Hudson was appointed to act as Superintendent, and Mr. W. D. Wilkins as Deputy Superintendent, from the 13th to the 30th June 1898, the promotion being consequent to the appointment of Mr. A. Brownlow Fforde as Acting Survey Commissioner.

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Number of men employ ed on Phaini.	Number of men employ- ed in measuring.	of Establish- ment.	Letter of
	3	1	
5	18		
4	16	***	≜ B
5	18	·y ····	
6	16		Ç
5	15	*** ***	<u>D</u>
5	14	·•• 4**	E
5	30	*** ***	F
	72	*** ***	G
1 8		100 800	H
l •	. 36		I
		ni Establish	<u>Phalni</u>
10	8	nt	ment
52	. 147	Total	

10. There were 10 establishments, including the Phalni Establishment,

employed during the year. As the measurement remaining to be done was all in Dáhánu Táluka and Umbargaon Petha, which are too unhealthy to work in until the middle of the cold weather, it was decided to employ all the establishments on Phalni of Varkas until the 15th of January 1898. But after a short time in Dáhánu it was found that the work to be done there was more than had been anticipated, so the Phalni Establishment was put on ordinary measurement work from the beginning of March 1898 and continued to be thus employed until the end of the season. The average strength of measurers employed on measuring and Phalni work is shown in the table in the margin. The year previous to the one under report, there were 137 measurers and 77

Total ... 147 52 in the margin. The year previous to the one under report, there were 137 measurers and 77 classers employed in this survey in the 11 establishments which then existed. As the K Establishment was reduced from the 1st November 1897, there were only 10 employed in the year under report.

11. The field season commenced, as usual, early in November, and the establishments commenced work on dates varying from the 10th to the 12th November, those which had further to travel being allowed a longer time than the rest. The closing date was nominally the 31st May 1898; but as the Dábánu Táluka and Umbargaon Petha had to be finished, some men were kept out a few days later to accomplish it.

Measuring Operations.

12. There were no establishments employed in classification because none remained to be done. As stated in paragraph 10 above, 9 establishments were employed on measurement and the Phalni Establishment also from the beginning of March,

13. The amount of Phalni work done will be shown separately. The amount of measurement done by each establishment is shown in the following table, which is an abstract of Statement No. I of the appendices :--

Establish-	Average	· · ·	Name of Head Surveyor,		MRASTERD.		Average cost of
ment.	number of men.	Name of Supervising Officer.	Survey Mámlatdár or Nimtan- dár in churge of Esteblishment.	Fields.	Vasife.	Acres.	Messurement per sare.
1	3	- 8 	4	5	6	7	8
				·			Rs. s. p.
ĺ	23-20	Mr. W. D. Wilking	Paranjpe, Survey Mámlat-	7,428	18,062	\$7, 717	0 9 30
▲ {	13:43	Meesra. W. D. Wilkins, and J. A. McIver.	Báo Sáheb Baburao Yesh- vant Nerurkar, Survey Mámlatdár and Nimtandár Gaupat Balaji Jaide.	8,470	85,312	27, 392	0 6 11
ſ	- 1	Was a Chasing Esta- blishment.	*****			410	
в (16-13	Mr. Hari Vinayah Sathe.	Ráo Sáheb Sadashiv Amrat Brahme, Head Surveyor and Nimtandár Bam- chandra Anant Nimkar,	Į	3 1,090	86,359) ġ 5 6 -
_		Was a Classing Esta blishment.	*				
C	17-90		Nimtandár Dhondo Nara- yan Gore,	.9,361	49,733	\$2,504	063
n	1 ***	Mr. W. D. Wilkins	Ráo Sáheb Trimbak Pandu rang Gangal, Head Sur		7,859	45,426	
Ð	15·7		Veyor. Nimtandárs Vishnu Ganga dar Jog and Vishwanati Narayan Dhamankar.	- 11,5+0	34,225	27,675	0 8 4

atah]ish-	Avenage	} .	Name of Heid Surveyor,	1	Mandari	•	Average
ment.	number of men.	Name of Supervising Officer.	Survey Mimiatilar or Nimtan- dar in charge of Establishment.	Plaids.	Vasida.	Acres	eost of Men-tiremer per acre.
1	8	8	4	5	6	7	8
	•						Bs. s. p.
	34733	Mr. J. A. Melver	Ráo Sáheb Baburav Yesh Want Nerurkar, Survey Mamlatdár.	10,001	47,180	90, 691	0 7
·	15.02	Messers. A. G. Hudson and Hari Vinayak Sathe.	Ráo Saheb Gangadhar Vam-		22,535	16,687	0 10
(21-95	Mr. J. A. McIver	Rao Saheb Anant Narayan Kalamkar, Head Surveyor.	10,679	18, 37 5	36,467	
{	14·3 6	Mesara. W. S. Cole. W. D. Wilkins and J. A. McIver.	Nimtandár Antaji Lazuman	16,136	1 1,429	80,904	051
	12-66	Mr. W. D. Wilkins	Rão Sáheb Narayan Bhi- kaji Belekar, Head Survey- or.		80,818	70,252	6 3
[]	1 6• 29	Means, W. D. Wilkins and J. A. McIver.	Nimtandár Sakhárám La- doji Mhapaukar.	12,698	45,673	82,653	05
. []	34-03	Mr. J. A. McIver'	Ráo Sáheb Waman Chinta- man Gangal, Head Survey- or,	9,233	11,493	87,497	
،} ا	1471	Messra. W. S. Cole, W. D. Wilkins and J. A. McIver.	Nimtandár Swamirao	6,172	36,779	\$2,715	06
ſ	•••	Was Classing Establish- ment.					
{	15-84	Messra. W. S. Cole, W. D. Wilkins and J. A. McIver.	Nimtandár, Hari Gopal Mayaude.	5,430	80,970	26,334	06
ſ	· `	Was employed on Phalui.			- 1	-	-
h 4i ni {	8-18		Ráo Sáheb Mankeshwar Gopal Mhaskar, Survey Mámlatdár.	7,298	80,705	19,178	•
]	187-59		Total, for 1896-97	51,550	183,641	\$53,050	0 8 1
	147-63		Total, for 1897-93	93,147	818,451	272,724	08
İ		Deccan Surge	y Betabliekmente.				
ſ	8-09		Ráo Sáheb Purshotam Ba- puji Phadke, Survey Mám-	1,714	9,109	4,830	0 10
1		Was not employed in season under report.	latdúr.	•••	•••		•••
4	6-45	Mr. H. L. Holland	Ráo Fábeb Laxuman Vasu- deo Bludo, H.ad Survey or.	1,669	1,775	8,746	065
	8	Was not employed in enson under report.	*****	•••	•••	•••	•••
	12.54		Total, for 1896-97	8,383	10,943	11,264	0 7 11
	150-16		Brand Total, for 1896-97	86,94 <u>1</u>	144,625	964,314	0 0 0
']_	147-63	ľ	irand Total, for 1897-98	93,147	818,451	272,724	0 6 2
	-	Į	Increase	180,305	175,620	8,410	0 0 1
1	2- 51		Decrease	•••	***		•••

N. B.-The upper line of figures refers to the preceding year.

14. The result shown in the above statement cannot be compared item for item with the work of the previous season, because in the season under report it was decided that intermediate Burujs on the boundaries of Varkas numbers should not be erected. The old corners of Varkas numbers were merely fixed in accurately, and time which would have been spent in lining out Burujs, was thus saved. It is, however, a matter for congratulation that the number of fields and Vaslás show such large increases, and, taking all the circumstances into consideration, the men employed on the actual work must have worked hard, and those who had the supervision of them must have looked after them closely and got through a large additional amount of test. In 1896-97 two Deccan parties were employed in the Konkan for two months, and against this we had in the year under report the assistance of the Phalni Establishment for three months.

15. The following table shows the total old survey numbers and Acres which were either measured or confirmed. The figures for the previous season are also given for the sake of comparison :---

		1896	-97.		I	1897	7-98.			
Description of Land.	Солт	RMHD.	REMBA	TRED.	Convi	r Mird.	Renel	SURED.		
•	Num- , bers.	Acres.	Num- bern.	Acres.	Num- bers,	Acres.	Num- bers,	Acres,		
1	8		4	5	. 6	7	8	9		
Bice, rabi and garden Varkas Forest, &e.,	41,653 1,202 494	23,235 2,340 94,119	8,487 5,106	2,952 141,668	71.581 1,381 249	54,099 84,378 57,214	-14,058 5,678 	35,398 91,635 		
Total	43,349	1,19,694	13,593	144,620	73,211	145,691	19,936	127,033		

The outturn in acres, per chain, during this and the previous season is contrasted below :---

· · · · · · · · · · · · · · · · · · ·		Meas	TRED.	CONFI	ARD.
Description.	Years,	Rice, Babi, Garden.	Varkas.	Rice, Rabi, Garden.	Varkas,
1	8	3	4	5	<u>i6</u>
Outturn per chain in acres{	1896-97 1897-98 [•]		94 4 623	155 868	16 234

Details of actual measurement performed by each establishment will now be given :---

							ACTUAL MR	ASURS MENT	L		
	Establichment.				Fjel	da.	Vga	iá ą.	• Acres		
		,			Rice, Rabi, Garden.	Varkas,	Bice, Babi, Garden.	Varkas.	Rice, Rabi, Garden,	Varkas.	
		1			8	3		5	6	7	
A B	* 	•••	••• •••	b da 4 + +	2,271 1,485	275 934	35,312 31,0 90	•••	7,441 6,225	6,614 16,577	
	•••	•••		••••	1,061	51	49,788	***	498	2,058	
G	***	***	•••	•••	2,518 707	962 409	84,225 22,585	· •••	5,802 2,446	12,185 8,263	
***	•••					222	11,429		6,445	4,340	
}		•••	***		· · ·	1,824	45,678		8,928	15,571	
H	***		***	•••	51 5	\$63	80,779		1,162	• 1 0,99 7	
		***	***			441	30,970		1,273	10,613	
Phalufi	***	•••	•••	••	389	397	20,705		189	4,417	
			Total		14,058	5,878	818,451	· · · · · · · · · · · · · · · · · · ·	35,398	91,635	

16. The A, D, G Establishments were under the control of Mr. W. D. Wilkins, Assistant Superintendent, and the following is an outline of the manner in which they were employed. Mr. J. A. Molver, Acting Assistant Settlement Officer, supervised these establishments when Mr. Wilkins went on privilege leave.

17. The "A" Establishment commenced Phálni work in Sháhápur Táluka in the middle of November 1897 and was employed in that way till the middle of January 1898, when it was moved into the North-East corner of Umbargaon Petha until the end of the field season. Ráo Sáheb Baburao Yeshwant Nerurkar, Survey Mámlatdár, was in oharge of the establishment. Remarks on the amount of Phálni done will be found under the head of "Phalni." The outturn of measuring operations was 2,271 numbers, 35,312 Vaslás and 7,441 Acres of Rice; and 275 numbers and 6,614 Acres of Varkas. Turning to the number of days employed under the head of in-door work, the year under report shows 8 per cent. against 1 per cent. of the previous year. The reason of this is that in the month of November some men were employed on finishing up classification rain work which the Superintendent ordered should positively be finished. The boundary-mark inspection days have increased from 7 to 10 per cent. Days under other heads do not seem to require explanation.

The work of the establishment is very satisfactory. The cost per acre has decreased 2 annas 11 pice because fewer men than were employed in 1896-97 did almost the same area in Acres. No report as to how Rao Saheb Baburao Yeshwant Nerurkar looked after his men has been received from any of the officers who controlled the A Establishment; but the outturn shows that the men must have been carefully looked after, and Mr. Nerurkar is entitled to credit.

18. The "D" Establishment, which was in charge of Nimtandár Vishnu Gangadhar Jog, commenced work in the middle of November in Sháhápur Táluka, being employed on Phálni until the middle of January. It was then moved into the North of Umbargaon Petha, where it finished the field season in doing ordinary measurement. The outturn is almost the same as that of the "A" Establishment just reported on, and is very satisfactory.

The percentage of measuring days has decreased 11 and that of in-door work increased 7 per cent. because some men were employed in November in finishing rain work which, as in the case of the "A" Establishment, could not be put off till the following recess as the figures were required for Settlement Reports.

The cost per acre has increased 9 pies because though the outturn in numbers has increased, there is a falling off in acres. Although no report as to how Nimtandar Vishnu Gangadhar Jog handled his men has been received, the outturn shows that he must have exercised close supervision and his men worked hard.

19. The "G" Establishment under Nimtandár Sakharam Ládoji Mhapankar worked side by side with the two other establishments under Mr. W. D. Wilkins' control, *i.e.*, from the middle of November till the middle of January it was at work in Sháhápur Táluka, where it did Phálni work, and on being moved up to the Umbargaon Petha took up some of the villages near the coast in the vicinity of the village Maroli.

The days devoted to measurement have decreased 2 per cent. and those to in-door increased 7 per cent. for reasons similar to those given for the A and D Establishments above. Towards the end of the season it was found necessary to employ a measurer to help the Nimtandár in completing his test. This accounts for the increase in the number of days under this head. The number of travelling days having decreased from 10 to 6 per cent., and Hárkat from 2 to 1 per cent. is satisfactory. More testing had to be done than in the previous year, and it was deemed advisable to complete the test by giving additional assistance in this direction rather than leave it to be done the following season.

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The outturn of work by this establishment is larger than that done by any other, and great credit is due to Nimtandár Sakharam Ladoji Mhapankar for the manner in which he kept his men up to the mark. One Circle Inspector was attached to this establishment.

The cost per Acre has increased 2 annas 1 pie per Acre. The previous season the cost was worked out on 41,719 Acres, of which the greater part was Forest, which should not have been entered in the calculation.

20. The measuring operations proper of the B, C, and E Establishments were under the control of Mr. Hari Vinayak Sathe, Assistant Superintendent. Mr. Sathe also controlled the Phálni work of the B and C Establishments; but that of the E was under Mr. A. G. Hudson when Acting Superintendent.

21. The "B" Establishment commenced the season by doing Phálni work in the Sálsette Táluka from the middle of November until the middle of January. It was then moved into a block of villages surrounding Umbargaon. Ráo Sáheb Sadashiv Amrut Brahme was in charge of the establishment. Mr. Sathe remarks that this man did his work to his entire satisfaction. In addition to his ordinary test, he did the classification test of one village in Dáhánu Táluka and of the village Vávra in Mokháda Petha.

As the "B" was a classing establishment in 1896-97, a comparison cannot be made with the measurement work done by it this year. The twenty-one days *Harkat* are higher than in some other establishments; but the other days do not compare unfavourably. As in other establishments, the days for in-door work represent time spent in November in finishing rain work required for Settlement Reports. Five Circle Inspectors, who were recalled from the Agricultural Department, were attached to this establishment in order to ensure the taluka being finished.

The cost per acre was 5 annas 6 pies.

22. The "C" Establishment, in charge of Nimtandár Dhondo Narayan Gore, worked side by side with the "B" Establishment the whole season. The average number of men (17.9) employed is higher than in any other establishments. In order to finish the measurement of Dáhánu Táluka with certainty, 9 Circle Inspectors, recently transferred to the Agricultural Department, were recalled and attached to this establishment. These additional hands necessarily show a larger number of travelling and other days than establishments in which fewer men were employed. There were only seven days *Harkat* in all, which speaks well for supervision exercised. Rain work was done in November by this as by other establishments.

The cost was 6 annas 3 pies per Acre. This was a classing establishment the year previous to that under report.

Mr. Sathe says that Nimtandár Dhondo Narayan Gore worked to his entire satisfaction. The large number of additional men involved additional work, and he was given some assistance in testing at the end of the season.

23. The "E" Establishment was in charge of Ráo Sáheb Gangadhar Vasudev Joshi, Head Surveyor. It commenced Phálni in the South-West corner of Bhiwndi Táluka early in November, and was employed there until the middle of January, when it was put on to measurement work in the South-West corner of Dáhánu Táluka.

This establishment really did more work than would appear by glancing at the figures. Having finished the portion of Dahanu Taluka allotted to it, some of the men were attached to the "C" Establishment and eight were detailed to the special work of sub-dividing blocks in forest plateau to be given, out for sultivation by the Forest Department.

The days devoted to in-door work have increased. The completion in November of rain work required for Settlement purposes accounts for this, and for the proportionate decrease in measurement days. Three men were sick for long periods, which raises the percentage of these days from 4 to 7 per cent. The days spent in travelling to and from forest plateau increases the percentage under this head from 7 to 8. The cost per Acre was 10 annas 4 pies, or an increase of 2 annas 9 pies on that of the provious year. Some of the men of the establishment having assisted the "C" and their pay having been charged to the "E," the cost was not in reality what it seems to have been.

Mr. Sathe says Head Surveyor Gangadhar Vasudev Joshi worked to his entire satisfaction.

24. The F, H, and I Establishments were under the control of Mr. W. Scott Cole, Assistant Superintendent, until the date of his transfer (towards the end of May) to the Gujarát Survey as Deputy Superintendent. Mr. W. D. Wilkins, Assistant Superintendent, relieved Mr. Cole on his transfer, and thus had the supervising charge of the A, D, G, F, H and I Establishments until he went on privilege leave. Mr. J. A. McIver, Acting Assistant Settlement Officer, in turn relieved Mr. Wilkins.

25. The "F" Establishment was in charge of Nimtandár Antaji Laxuman Joshi. It was employed the first two months of the season in doing Phálni work in Bhiwndi Táluka, and was moved up to Dáhánu l'áluka for measurement about the middle of January. As in other establishments reported on above, the increase in the number of days devoted to in-door work is brought about by the completion during November of rain work required for Settlement purposes. The measurement days show a decrease for the same reason.

The distribution of days under other heads does not call for any special remarks.

There is nothing on record to show how the Nimtandár in charge worked, but an examination of the figures leads me to think that Nimtandár Antaji Laxuman Joshi looked after his men carefully.

The cost per Acre has decreased 8 pies.

26. The "H" Establishment, in charge of Nimtandar Swamiráo Jairao Betgiri, worked in the Bhiwndi Táluka on Phálni operations till the middle of January. It was then employed on measurement in Dáhánu Táluka till the end of the field season.

The days devoted to in-door work have increased for the same reason as has already been given for other establishments. Seven men were ill for long periods, so the days under the head of sickness have increased from 1 to 14 per cent.

Comparing the work with that of the F Establishment just reviewed, the 36,779 Vaslas and the additional area of Rice and Varkas measured by the H, indicates that the outturn was about the same.

The cost per Acre was 5 pies more than in the year previous.

There is flothing on record to show how Nimtandár Swamirao Jairao Betgiri looked after his men. Looking at the figures as a whole, they seem to be satisfactory.

27. The "I" Establishment worked side by side with the F and H the whole season. Nimtandár Hari Gopal Mavande was in charge. This establishment was in 1896-97 a classing establishment. The employment of some men on rain work in November will account for the figures entered under the head of in-door work. Three men having been ill for long periods, runs the "Sick" days up to 6 per cent. Nimtandár Hari Gopal Mavande seems to have looked after his men, as far as can be judged from the figures before me; but no opinion has been placed on record to guide me in this direction.

The cost was 6 annas 1 pie per Acre.

28. The Phálni Establishment (which as all the establishments are doing Phálni work is now called the J) was in charge of Ráo Sáheb Mankeshwar Gopal Mhasker, Survey Mámlatdár, the whole season. It began the season by doing Phálni in Kalyán Táluka, and on the completion of that Taluka moved into Bhiwndi Táluka.

As finishing the measurement of Dáhánu Táluka during the season under report was imperative, this establishment was put on to help from the beginning of March. Four men were sick for long periods, or the percentage (7) under this head would have been less. The outturn of the establishment is less than that of other establishments because it was only employed for three months in measuring; but the distribution of days shows that Ráo Sáheb Mankeshwar Gopal Mhaskar exercised close supervision over his men. The outturn of Phálni done by this establishment will be found elsewhere. Looking at the figures, and knowing the nature of the difficulties met with, I may say that Báo Sáheb Mankeshwar Gopal Mhaskar got through a deal of hard work. I have found that he readily co-operates in any matter that may be in hand, and I consider him a zealous and useful officer.

29. The following table shows the percentage of working and non-working days for the whole survey. The figures for the previous season are also given :----

					1896-97.	1897-98.
	Working	Days		-		
Measaring Boundary-mark inspec Measurement of bound In-door work	tion ary disput 	es, tests, dec.	 Total	••••	68-10 8-35 2-55 1-68 80-68	60-37 8-09 3-08 10-14 81-68
•	Non-worki	ng Days.				
Sickness Villagers non-co-opera Rain Travelling days Leave and holidays, &c		 	 	• • • • • • • • • •	8.60 0.96 0.14 7.27 7.40	5·27 0·44 0·32 5·86 6·4 3
		,	Total Grand Total	•••	19 37 100.	18. 32

In the faragraphs reviewing the work of each establishment, it has been pointed out that the days for in-door work have increased because it was absolutely necessary that certain figures required for Settlement work should be finished. This explains the reason of the falling off in measuring days. There is an improvement in the days under the head of non-co-operation on the part of the villagers, travelling, leave and holidays.

30. A table exhibiting the amount of test done by the officers in charge of establishments and Assistants in supervising charge is given below :---

Letter			They BU BUA	EUBOPRAN	07710310, 1734'34 08	HRAD SUI NIMTANDA	V#7036, \'28.	Average
Rotab- Ilsh- meni.	Make of Supervising Officer.	Name of Head Surveyor, Survey Mámlaldár and Nimtandár.	Fields.	Yaalda.	Asre.	Average Vaslås per Field.	Average Acres per Field.	between Original Measurement and Test. Percentage.
1	3	8	4	5	6	• 7	8	9
	Bios, I	Rdbi and Gardon,						A. g.
៍)	Ráo Sálieb Mahadeo Hari Paránjpe, Survey Mámlatdør	789	64 0	40	1	· 046	-
•	Mongs. W. D. Wil- kins and J. A. Mclver.	Rato Saheb Baburao Yeshwant	605 .	364	689		1.1	01
₿ {	Mr. Hari Vinayah Sáthe.	Báo Sáheb Sadashiv Amrut Brahme, Head Surveyor, and Nimtaulár Bamchandra. An- ant Nimkar.	1,126	319	1,418		· "18	-

Latter of Wanna & Summ		8	EUROPSAN CRVST MAN	OFFICERS, LATDANS OF	H BAD PUBA Nimtandai	87038, Le.	Average difference
Bstab- lish- ment.	vising Name of Head Surveyor, Surve Mámlaidár and Mimtandár.	Fields.	Vesifs.	Acres.	Average Vaslás per Field.	Average Average por Flaid	between Original Measurement and Test, Percentage,
1 2	3	•	5 ·	6	7	8	9:
Rive, .	Rabi and Gardon—continued.		1.				Å. 8
C Mr. Hari Vi Satha	nayek Nimtandár Dhonodi N yan Gore.	ara- 911	1,044	816			••••
2. W. D. W	ilkins. Báo Sáheb Trimbak Pandur Gangal, Head Surveyor.	mang 1,067	1,065	734	. I	0.7	01
D { Messra, W. D kins and McIver.	Wil- Nimtandars Vishnu Ga	nga- 618 nath	259	568	•••	07	01
Mr. J. A. Me	Iver Ráo Sáheb Baburao Veshy Nerurkar, Survey Mámlai	dár.	1,480	781	1	: 0 4	- 1
E Messre. A. G. son and Ha nayak Sathe	ri Vi- Joshi, Head Surveyor.	udeo 611	967	679	2	17	
Мт. J. A. Mo	Iver Ráo Sebeb Anant Nar Kalamkar, Head Surveyos		2,368		;	• •	7
F Measrs. W. S W. D. Wilki J. A. McIve	ne and man Joshi.	ara- 1,773	680	1,844		1.0	01
	Tilkins Ráo Sáheb Narayan Bh Belekar, Head Surveyor.	-					
G Messrs, W. I kins and J. J Iver.	A. Mo- Mhaponkar.		i I	601	1		i
	SIver , Báo Siheb Vaman Chinta Gangal, Head Surveyor. , Cole, Nimtandár Ewamirao Ja		1,477 8,064	536 534	5	1	
H d Messie. W. 5. W. D. Wilki J. A. Melve	ns and Betgiri.		-		_		
I deasrs. W. 8 W. D.Wilki J. A. McIve	. Cole, Nimtandár Hari Gupal ne and vande.	Ma- 587	958	639	3	1.2	0 1
The Superint and Deputy perintenden		opal 456 dár.	494	697		1.2	
•	Total for 1896-97	5,987	8,777	3,661	1	0.4	• 1
	Total for 1897-98	8,429	9,718	8,430	1	1.0	0 8
Deor	van Survey Establishments.						
	lland. Ráo Saheb Purshotam Bay Phadke, Survey Mámlatd	paji \$10 \$'r. 	141	244		••	
C B { Mr. H. L. Ho	lland, Ráo Sabeb Laxuman Vasu Bhida, Head Surveyor.		••• \$17	186	1	0.7	,
-1	9.000	•••	•••		***	•n 0*8	
l l	. Total for 1896-97 Total for 1897-98		360				
	Grand Total for 1896-97	0,451	. 9,1 3 5	4,008	1	0.8	0 1
	Grand Total for 1897-98		9,718	8,480	1	10	0 8
				h			
	Vortas Londs.					_	
11	lkins., Báo Sabeb Mabadev Hari l ranjpe, Survey Mámlatdár	· I I		8,141		34-6	 ,
A Mossrs. W. D. kins and J McIver.	Wil- Rao Saheb Baburao Yeshvi	anti 110	•••	1,633		14-8	***
B Mr. Hari Vis Bithe.	aáyak Báo Saheb Sadaahiv Am Brahme, Head Surveyor, a Nimtondár Bameband Anant Nimkar.	nd		1 043		8-9	•••

		•	Test BY ORS, SU	RUBOPEA NAM YEV	Y OFFICE	ne, HEAD on Nint	Surver-	Average difference between
of stab- ish- unt,	Mana Superv sing Officer.	Mame of Head Surveyor, Survey Mámlai dar or Nimtandár,	Flaidy.	Varkes.	Å4760.	Average Vaside per Field.	Average Acres per Field.	Original Mensuremen and Test. Percentage.
1	3				6	7	8	9
		•			,		 ·	
c{	Mr. Flari Vináyak Sátha.	Nimtand <i>ir Dhondo Narayan</i> Gore.	79	-	2,625	•••	33-2	
Ċ	Mr. W. D. Wilkins.	B40 Scheb Trimbak Pandurang	107		3,700		25-31	
Ð	Means. W. D. Wil- kins and J. A. Mo- Lver.	Gangal, Head Surveyor, Nimtandárs Vishnu Gangadhar Jog and Vishwanath Narayan Dhamankar.	117		1,683	145	14-0	
	Mr. J. A. Melver .	Báo Saheb Baburao Yeshwant	· 147		8,067	~	30-60	
B	Messrs. A. G. Hud- son and H. V. Sathe.	Nerurkar, Survey Mámlatdár.	104	•••	7,219	Ŧ	11-7	
Ž	Mr. J. A. Melver	Ráo Sáheb Anant Narayan	- 146		3,794		28-05	-
╸╢	Mesars. W. S. Cole, W. D. Wilkins	Kalamkar, Head Surveyor. Nimtandár Antaji Laxuman	29		- 580	₽ ●	20-0	
Y	and J. A. Melver. Mr. W. D. Wilkins.	Ráo Sábeb Narayan Bhikaji	. 199		3,967		27-04	·
}	Mosers. W. D. Wil- kins and J. A. Mo- Iver.	Belekar, Hend Surveyor. Nimtandár Sakharam Ladoji Mahapankar.	185	,	1,614	• 1 0	8.7	
·]	Mr. J. A. McIver	Ráo Sáheb Waman Chintaman	 118	1	3,997	_	36-82	
I	Meears. W. S. Cole, W. D. Wilkins and J. A. McIver.	Gángal, Head Eurveyor.	50	•••	1,107		3 2-1	
-{	Wesers. W. S. Cole, W. D. Wilkins and J. A. Melver.	Nimtandur Harl Gopal Ma- vands.	 56		1,613	100 400 -	28-8	4 - 100
{	The Superintendent and Deputy Sup- trintendent.	Báo Sábeb Mankeshwar Gopal Mhaskar, Survey Mámlat- dár.	···. 68	4 45 1940 11	719	•==	13-6	
	•	Total for 1896-97	. 728		17,456		39-16	
	• •		900		18,776	•••	15-8	
}		rvsy Establishments.						
d		Ráo Sáheli Purshotam Bapuji	26		638		34-54	.945-
^ {	4 9 0-14	Phadke, Eurvey Mámlatdar.		••••		•••		
ر ا	Mr. H. L. Holland	Rato Fábeb Laxuman Vasadeo		444	784	' 14 9	88-36	300
₿┨	******	Bhide, Head Surveyor.			***	***		
		Total for 1896-97	48	,	1,372		28.58	•••
	-	Total for 1897-98	. ***	4.84		•••		
		Grand Total for 1896-97	781		18,927		\$4-13	
	.•	Grand Total for 1897-98	900		18,776		16-8	•••
		Great Grand Total for 1896-97.	7,203	9,135	23,019	1	3-18	
		Guat Grand Total for 1897-98.	9,329	9,718	22,206	1	\$4	0 1

N.R.-The upper line of figures relaxs to the prototing year.

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31. The table just given shows the amount of test performed. The following table shows the percentage this represents on the work of the establishments :--

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1	- 	•		PERCENTER	2 ap T202.		
Letter of Betablish- ment.	Name of Suparvising Officer.	Name of Survey Mimistár, Head Surveyer or Nimtandár in charge of Establishment.	Rice, Rabi	und Garden.	Tai	tana.	
			Fields.	Aares.	Floids.	Ants.	
1	2	\$	•	5	6	7	
	1		1	A. g.	<u> </u>	A .	
A .	Messrs. W. D. Wilkins and J. A. McIver.	R40 Sahob Baburao Teshwant Nerurkar, Survey Mamlatdar, and Nimtandar Ganpat Balaji Jaide,		4 8	20	30	Õ
B • .	Mr. Hari Vineyak Sathe	Báo Páheb Sadashiv Amrut Brah- me, Head Surveyor, and Nimtau- dár Ramchandra Anant Nimkar.	10	99	12	6	8
0 D-	Lo	Nimtandar Ilhondo Narayan Gora	n	12 4	10	10	g
D	Measrs. W. D. Wilkins and J. A. McIver.	Nimtandars Vishnu Gangadhar Jog, and Vishwanath Narayan Dha- mankar.	8	54	13	18	4
	Mesurs. A. G. Hudson and H. V. Sathe-	Rao Saheb Gangadhar Vasudec Joshi.	n	18 7	20	18	•
	Messra, W. S. Cole, W. D. Wilkins and J. A. McIver.	Nimtandár Antaji Laxaman Joshi .	11	12 8	· 10	10	1
G	Mosars, W. D. Wilkins and J. A. McIver.	Nimtandár Sakharam Ladoji Mha- pankar.	10	70	10	8	4
H	Mesars. W. S. Cole, W. D. Wilkins and J. A. McIver.	Nimtandar Swamirao Jairao Bet	12	11 8	12	9	8
I	Messrs. W. S. Cole, W. D. Wilkins and J A. McIver.	Nimtandár Hari Gopal Mavande	11	15 7	10 .	14	4
Phálni.		Ráo Sáheb Mankeshwar Gopal Mhaskar, Survey Mámlatdár	7		11	7	7

The above figures speak for themselves. The tests taken are ample, and when it is remembered that there are a very large number of heads under which tests are required, the difficulty of keeping the figures even is a complicated task.

32. The amount of boundary-mark inspection tests got through is given below :---

Letter of Estab-	Name of Supervising Officer.	Name of Survey Mamlatdár, Head Surveyor or	BOUNDARY-WARE INSPECTION.		
lish- ment.		Bupervaing Omcar. Nimtaudár in charge,		Atres.	
1	2	8	4	5	
A	and J. A. McIver.	Ráo Sáheb Baburao Yeshwant Nerurkar, Survey Mámlatdár, and Nimtandár Ganpat Balaji Jaide.	818	1,92	
B , .	Mr. Hari Vipayak Sathe.	Rao Sáheb Sadashiv Amrut Brahme, Head Surveyor, and Nimtandár Ram- chandra Anant Nimkar.	`304	1,591	
ć	Do	Nimtandár Dhondo Narayan Gore	401	2,584	
		Nimtandárs Visheu Gangadhar Jog and Vishwanath Narayan Dhamankar.	349	1,83	
E	Messrs. A. G. Hudson and H. V. Sathe.	Head Surveyor.	-195	1,03	
Ŧ	Messrs. W. S. Cole, W. D. Wilkins and J. A. McIver.		2 57	1,560	
G	Messrs. W. D. Wilkins and J. A. McIver.	Nimtandár Sakharam Ladoji Mhapan- kar.	294	1,788	
H	Messra. W. S. Cole, W. D. Wilkins and J. A. Molver.	Nimtandár Swamirao Jairao Betgiri	266	1,278	
I	Do. do	Nimtandár Hari Gopal Mavande	236	1,471	
Phálni.	Superintendent and Deputy Superinten- dent.	Ráo Sáheb Mankeshwar Gopal Mhaskar,	173	831	

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• The above seems, on the whole, satisfactory.

83. Statement No. II of the appendices gives the percentage difference between original and test areas for each establishment. Two numbers went into 7 per cent. Only 25 numbers (including the 2 just referred to) went into over 2 per cent. The work of the measurers may thus be said to be very accurate.

84. The state of the boundary-mark accounts is given in Statement III of the appendices. Of the 147 villages measured, boundary-marks were erected by Government Agency in 79, and by the villagers themselves in 68. The boundary-mark accounts of the 79 were completed and sent to you before the close of the year. As usual, boundary-mark accounts of villages in which no money was paid (as in the case of the 68 referred to here) were not made out.

35. The number of villages measured by each establishment, and the proportion of boundary-marks erected by Government Agency and by the villagers themselves is as follows:—

Letter of Establishment.				Total Number of	BOUNDART-M	LEE BREQUED B
Tetter .	of Est	e blishmen	u t.	Villages measured,	Villagers.	Hired labour
	1			2	8	4
A	•••			15	13	2
B	***		•••	19 15	9 10	10
C.			•••	15	9	6
2		•		17	2	15
2 F				16	- 2 1	15
g.	***			14	5	9
Ħ				13	8	5 8-
Γ	•••		••••	15	5	8
Phálni			•••	10	6	′4 ′
		Total		147	68	79

The erection of boundary-marks is a part of Survey operations which depends as much on the influence of large landholders and the Revenue authorities as on the measurers themselves. It frequently happens that in villages in which the villagers refuse at first to put up their own boundarymarks, they can be induced to do so with a little persuasion. In the year under report hired labour had to be employed in 79 villages out of 147.

86. The whole of the measurement rain work was finished. Details will be found on Statement IV of the appendices.

Classification.

37. In consequence of plague in the village Chinchni of Dáhánu Táluka in 1896-97, it was decided to leave the village over until the season under report. The total fields in this village were 2,313 and the total area 1,944, while the average cost per Acre was anna 1 and pies 8. The following table will explain details :--

Dee	cription o	f Land,		Fields.	Acres.
	1			2	*
Rice	***			1,582	728
Rabi				277	280
Garden	***			402	200
Varkas		•		52	641
	•	Total		2,313	1,944

Phálm.

38. The different talukas in which the establishments carried on Phalni work from the beginning of the season till the middle of January 1898 have already been noted in my remarks against each. The amount of Phalni done by each establishment, the average number of men employed, and the cost per Acre, are given in the following table :--

Letter		Average	Name of Super-	Name of Survey Mamiatdar,	Pasi	13130. ·	Average Area per	Ave		
104Q		Strength.	vising Officer.	Head Surveyor or Nimtandár.	dis. Fields, Acres,		Survey Numbers in Aore,	Cost per Acre.		
1		2		4	۰.	•	7			—
								Rs.	8.	
L	-	5.01	Mr. W. D. Wil-	Rao Saheb Baburao Yeshwant Nerurkar, Survey Mámlatdár,	9,988	13,825	1.84	0	8	9
D	•••	509	Do	Manager and the state of the st	11,998	J0,604	0 *8 8	0	2	5
8	***	4166	بوديوهم	NY 1. 3/ 0. LL	8,279	24,406	1.74	0	1	10
B	444	8.22	Mr. H. V. Sathe .		13,599	5,404	0.40	0	8	7
σ	•	4-80	De	Myname Mar Blands Mannes	17,668	6,322	95 0	0	6	8
B	0 a b	4 *28	Mr. A. G. Hud-		12,965	6,517	0-50	0	6	8
P	+=+	6 -21	Mr. W. S. Cole		18,627	10,634	078	0	2	9
Ħ	***	50	Do	Nimtandár Swamirao Jairao Betgiri.	6,542	8,175	1-16	0	8	7
r	:	2-42	Do	Nimtandár Hari Gopal Mavande.	5,744	7.387	1-38	0	2	
Phálmi	1+4	9-94	The Superintend- ent.		27,811	25,062	0-92	Ŏ	ž	ġ
·		\$1-99		Total	1,22,691	1,07,786	0*88	0	8	1
	ľ	19.69	Outturn by Phili others were supi	ni Establishment in 1896-97. (No oyed).	65,848	66,834	1.05	0	2	0

In the case of the Phálni Establishment, its outturn up to the end of February is shown. The cost per Acre of the whole Phálni done in the season under report compared with that for the previous year is 3 annas 1 pie against 2 annas. The Phálni Establishment was in 1896-97 under the Superintendent's supervision, and the 2 annas shown as the average cost per Acre does not include a share of that officer's pay; while in the year under report the average cost, for each establishment, includes the share of the pay of the supervising officer.

39. 'The areas of the different kinds of lands phalnied and the number of pôt numbers or Phalni tukdas dealt with are as follows :---

•		Ra	6L	Varkas.			
Letter of Est lishment.	8D-	Pôt Acres,		Phálui Tukdas.	Acres		
1		8	3	6	5		
A D G B C F F H 1 Phálni		172 69 63 357 1,286 590 1,216 653 639 8,105	213 37 185 287 458 382 1,355 974 914 3,549	9,761 11,924 8,216 18,242 11,402 12,875 12,411 5,889 5,105 24,206	18,112 10,567 14,221 5,117 5,869 6,185 9,279 7,201 6,423 21,513		
Total	••••	8,150	8,349	1,14,531	99,437		

≥ 1301-4 x

etter of Establ	ishment.	Pháini.	Test.	Siekn ess .	Non-co- operation.	Travelling days.	In-door work.	Leave and other days.	Total.
1		2	8	4	8	6	7	8	9
	···· ··· ··· ··· ···	66 65 60 78 54 66	2 4 8 8 8 7 6 9 6	10 4 3 14 6 14 4 22 5 9	1 \$ 5 8 2 5 1	12 8 7 6 9 7 6 7 10 4	1 1 2 6	5 11 10 6 9 11 7 6 8 6	100 100 100 100 100 100 100 100 100

40. The distribution of days, while the establishments were employed on Phálai, shows the following percentage :---

In the above table the sick days are bigh in the A, B, E, and H Establishments. Working as the men did early in November, when the heavy dews on long grass wet them, up to the middle every day, it is not surprising that some of them got sick. In the G and H Establishments the days of non-co-operation each show 5 per cent.

41. The distribution of working and non-working days for the whole of the Phálni operations is as follows :---

2

Working days -		66.42	,
Phálni			
Tests		5.86	
In-door work		1.90	
TU-door work ***	486	*** 100	74·18
			14.10
Non-working days-			
Sick		9.09	• •
	***	1.86	
Villagers not co-operating	***	1.00	
Rain			
Travelling		7.20	
		7.67	
Leave and holidays	• •••	441 F VF	
			25.82
•			
·		Total	100-00
•		TOPPT ***	100.00

A comparison with the previous year's work is impossible, because the year under report is the first in which the whole department was put on Phálni work and that only for a portion of the season.

42. The amount of test taken on the work of the men is given in the following tables. The upper table refers to Rabi, the lower to Varkas :---

			ľ	eat by European Head fur	Officers, Sub veyors and Ni	vey Mánlaydárs, mtaxdárs,	Average difference	
I	etter of B	stablishment,		Fields.	Acres,	Average area of fields tested.	per field between test and original work.	
	,	1		3	3	4	5	
			F	For Rábi.		A. g.	As. p.	
A)	13	8	02	0.0	
D G B C E F H I				16	7	0.4	0.	
G	•••		•••	28	48	1.7	0.	
B	***		•••	· 4 4	42	1.0	0.2	
C		***	••••	149	59	0.4	0-2	
10			••••	22	15	ት 0-7	0.3	
F	***		••••	62	53	0.9	0-0	
H	***	***	••••	57	75	1.8	01	
	***	***	•••	85	131	1.5	0.	
Phálni		•••	•••	252	261	1.0	0.	
		Total	•••	728	694	1.0	0.1	

				TEST BY EUROPARM HEAD SUBT	OFFICERS, STR	vry Mámlaydábs, htandárs,	Average differ-
	lietter o	f Establishment.		Fields,	Acres,	Average area of fields tested,	since per field between test and original work.
		1		8	\$	•	6
		N		For Varkas.		▲.Q.	s.p.
۰ A	•••			1,041	1,407	1.4	0-0
D G B C E F H	***	***		1,438	1,291	0-9	0.3
G	•••	***		1,299	1,567	1.2	0.0
B	***			1,891	- 772	0.4	0.2
C	•••			1,173	650	0.6	0.8
E	4 88			1,288	819	0.6	0.4
F	***	•••		1,582	1,361	0.9	0-2
		***		578	882	1.5	0.0
I				646	867	1.8	0.2
Phálni	•••			2,165	2,273	1.0	0.0
		Total	•••	18,101	11,889	0.9	0.1
		Grand Total		13,829	12,583	0.9	0.1

The total average test on Rabi was 9.0 per cent. of Pôt numbers and 8.3 per cent. of the area; and of Varkas 11.0 per cent. of Phalni Tukdas and 12 per cent. of the area. Of the two combined, 11 per cent. of Pôt numbers and Phálni Tukdas, and 11.7 per cent of their area was tested.

43. The percentage of test taken on the work of each establishment is as follows :---

				RAN	и,		[VABI	EAB,		
•			Work	done.	Tested po	er cent.	Worl	k done.	Tested p	r cent.	
Letter of]	Letter of Establishment.		Pôt Numbers.	Acres,	Acres. Pôt Numbers Acres.		Phálni Tukdas.	Acres.	Phálni Tukina,	Acres.	
	1		3	8		5	6	7	. 8	9	
A			172	213	8	1.2	9,721	13,112	11	10.7	
D			69	37	23	18.9	11,924	10,567	12	12.5	
G			63	185	44	25.9	8,216	14,221	16	11.0	
B 👘			857	287	12	14.6	18,242	5,117	14	15.1	
С			1,286	458	12	18.0	11,402	5,869	10	11-1	
Ε			590	3 82	4	8.9	12,875	6,185	10	13.3	
F			1,216	1,855 ^	5	8-9	12,411	9,279	18	147	
Н			658	974	9	7.8	5,889	7,201	10	12.2	
1	***		689	914	13	18· 3	5,105	6,428	18	18.5	
Phálni		•	8,105	8,549	8	7-4	24,206	21,513	9	10.0	
	Total		8,150	8,349	9	8.8	114,581	99,437	11	120	

44. Appendix VI gives details of differences between test and valuations arrived at by the men. In 13,829 fields tested, 60 had a difference of over 2 annas, which gives a percentage of 0.43. The errors discovered at test are, of each establishment, as follows :---

	. Betablishment.		ishment. Errors up to 2 annas.				Total.
	1		1 9		8	4	6
				100 0	*****		100-0
D	•••••			96-91	2.75	0.34	100-0
Ğ	***			91.86	7.08	1.06	100-0
B	***	***	•••	99-17	0-83	0.00	100.0
ō	***			98-19	1.00	0.15	100-0
Ē	***			96 72	2.98	0.30	100-0
F		***		98.36	0.01	1.03	100-0
5 77		•••	•	98.74	0.94	0.32	100-0
H			••••	99.45	0.55	0.00	100.0
1		***		9 8 ·17	6.17	0.08	
Phálni	•••			29.11	0.11	00.00	100·0

Monsoon Recess Work.

45. Appendix VII shows that out of 378 villages, of which the Phálni was done during the field season, the recess examination of 356 was completed. Thus 22 were left over. But the Phálni rain work of 84 villages, and the classification rain work of 242 villages left over from the previous year, was finished, and the measurement rain work of the 147 villages measured during the season under report was also completed. We have, therefore, no arrears of measurement rain work, no arrears of classification rain work, and only the 22 villages just mentioned of Phálni rain work. The bringing up of all these arrears speaks well for all those who had to do it.

46. It will not be out of place here if I give a few figures to show how far the estimate regarding varkas phalni which accompanied Mr. Hearn's letter No. 1140 of 11th August 1897 has been worked up to. The information regarding Kalyán, Bhiwndi and Sálsette can be dealt with; but I will omit Sháhápur because a large amount of work still remains to be done. Kalyán is finished :--

Nat	ne of Táluka.		Units estimated to be remain- ing.	Units actually found to remain.	How many villages remain.		
	1		3 ·	. 8	4		
Kalyán	· ••••	•••	28,200	26,844	Nil.		
Sálsette		•••	29,660	38,013	13 villages.		
Bhiwndi	•••	•••	91,488	97,070	14 do.		

The estimate for Kalyán was about 3,600 units too few. In Sálsette 8,353 more units than were estimated for have been done up to date, and 13 villages remain to be done; while in Bhiwndi some 5,500 more units than estimated have been found, and 14 villages still remain.

47. Maps.—Appendix VIII gives details regarding village maps supplied to village officers.

460 village maps were sent to the Government Photozinco Department for reproduction. In the Record Office 63 fair maps and 6 Táluka maps were prepared.

Maps were supplied as follows :----

50 to applicants. 179 to the Forest Department. 455 to the Revenue authorities.

48. Appendix IX gives the cost of the operations for the year under report. There is a decrease in the year's expenditure on account of survey operations (not including Phálni) of Rs. 49,674. The cost of Phálni operations was Rs. 21,029, which, if deducted from the Rs. 49,674, will show a net decrease of Rs. 28,645 during the year under report. There is a decrease of Rs. 10,743 under the head of Assistant's pay for measurement alone, and an increase for Phálni alone of Rs. 3,464. The average of the two is a decrease of Rs. 7,279. The decrease of Rs. 10,743 is explained (1) by the fact that Mr. Sathe, a Fourth Grade Assistant Superintendent, was transferred to the Survey in place of Mr. McIver, who is a First Grade Assistant, (2) by Mr. Cole's transfer to Gujarát from June, which enabled the acting officer to do his own and Mr. Cole's work together. The Rs. 8,275 saved in the pay of the Survey Commissioner is accounted for by Mr. A. Brownlow Fforde having acted Survey Commissioner during Mr. Muir Mackenzie's absence. The savings of Rs. 1,312 under the head of Boundary-marks, Rs. 4,735 in Contingencies, Rs. 23,620 in Establishments are due to Phálni operations for which separate charges are shown. The increases for Phálni are as follows :--

Rs. 7,700 for Establishment. 1,065 for Contingencies. 3,464 for Assistants' psy. 10 for Boundary-marks.

The cost of the whole operations (including Phálni) was Rs. 1,69,502. An item of Rs. 461 for the Bhor State is not included in the above.

49. Appendix X gives the area measured and phalnied, as also the total expenditure and cost per Acre of the operations separately. The total expenditure in British Territory, together with the share of the Survey Commissioner's pay, and that of his establishment distributed under the heads of Measuring, Classing, Settlement, and Miscellaneous, is given below:---

No.	Head of Expenditure.	Annual Co	rt.	Rateable p of Nos. (Total C	cet.	
1,	3	8		• ·			6		
		Bs. a	. p.	Rs.	8,	p.	Rs.		P.
1 2 3 4	MeasurementClassificationSettlementMiscellaneous	155 1 	96 51 30	24,448 47 39,006 1,140	14 6		1,05,602 20 3 39,006 8,660	13 6	7
	Total	63,830 1	1 7	64,642	11	0	1,48,473	6	7
5 6	Superintendent's salary and expenses of his office Share of pay of Survey Com- missioner and his office	50,906 1 ,13,786	1 0 0 0		· · · ·				
	Total	64,642 1	1 0	1	•				
	Grand Total	1,48,478	6 7]•.					

'Grain compensation is included in the above "Miscellaneous" item. The average cost per Acre of the season's work is as follows :---

Description.		Measurement.	Classi	fication	an Se	Total of Columns I and 3 including Settlement and Miscellaneous,			Pháini.	
1.		2		3			• ·			
	•	Bs. s. p.	R.	a. p.		Re.	s , p.	Re.	a . 1	
For survey in British Territ	OTT.	062	0	18		0	7 10	0	8	
•		•	l	1				1		
50. The average	-1		g and c		tion	tog	ether	per	Acı	
50. The average	-1		g and c		tion 9	Pies	4	per .	Acı	
50. The average ovas in	cost of	f measurin	g and c	lassifica		_	4	per	Aeı	
50. The average of vas in	cost of	f measurin	- · ·	lassifica Annas	9	Pies	4	per	Aeı	
50. The average of the second	cost of	measurin 	•••	lassifica Annas Do. Do.	9 7	Pies do.	4	per .	Acı	
50. The average (vas in	cost of	f measurin Phál si oper a	 stions cost	lassifica Annas Do. Do.	9 7	Piee do. do.	4 0 10	per .	Acı	
50. The average of the second	cost of	f measurin Phál si sper 	 stions cost	lassifica Annas Do. Do.	9 7 7	Pies do. do.	4 0 10	per .	Ao	
50. The average (vas in	cost of	f measurin Phál si oper a	 stions cost	lassifica Annas Do. Do.	9 7 7	Pies do. do.	4 0 10	per .	Acı	

51. Twenty-four men were lent to other Departments. There and which they were employed, and the periods for which they were lent, are taulated below :--

	No. of	Pa	10p ay	ENPLOYMENT.		Tob	, Tw	tiod
Department in which employed.	inen.	From	•••	To	- -		enc	
1	\$			4			6	
i	·			[· .	¥.		2. d
Agricultural Department in the Kolába District.	.1	lst November	1897 .	29th April 1898		0	5	28
d	1	Do.	•••	5th November 1	807	0	0	Å
	ī	Do.		Do.		ŏ	ŏ	4
· · · · · · · · · · · · · · · · · · ·	· î	Do.	•••	· Do.	•••	ŏ	Ő	4
	ī	Do.	***	Do.	••••	ŏ	0	4
Partition of estates under the	i	Do.	•••	31st October 189			0	ō
Collector of Ratnágiri.	- i .	Do.	•••	Do.	'° - (1	0	
	1	Do.		Do. Do	•••	1		0
11	î	Do	•••	D0.	•••	1	0	0
f1.	i	Do.	•••	Do.	•••	1	0	0
11	- i			Do	****	1	0	0
\sim \mathbf{Q}	_ ÷	Do.	· • • •	Do.		1	Ø	¢
Agricaltural Department in the Ratnágiri Districta	1	Do.	,. .	Do.		1	ō	0
c	1	Do.	•	· • ·	1	_	_	
orest Department	- i	, <i>D</i> o.	. ***	Do.	***	1	0	0
over Debatemente	1	• Do.	••	Do.		1	0	0
		Do. .	•••	Do.		1	0	0
ávantvádi	.1	Do.		Do		1	0	Ð
	1	Do. `	.	D .		_	-	
	- î	Do.	•••	Do.	•••	1	0	0
· · · · · · · · · · · · · · · · · · ·	ī	Do.	••	Do.	•••	1	0	0
lative States Survey	i	Do.	•••	Do.	••••	1	0	0
	i	Da. Da	•••	Do.	•••	1	0	0
11	i	Do.	•••	Do.	•••	1	0	0
· · · · · · · · · · · · · · · · · · ·	ì	Do.	· •••	Do.	•••	1	0	0
	•	1 /0,	***	Do.	•••	1	0	0
Iubli Municipality	1	Do.		Do.	•••	1	0	0
Total	24		ł		f			
				0	· ,			

The previous year showed 25 men.

Settlement.

52. The progress made in this direction is detailed in Appendix XI.

During the year under report Revision Survey rates were introduced in 88 Government villages of Bassein Táluka of Thána Collectorate, and in 146 Government villages of Roha Taluka of Kolába Collectorate. Sanction to the introduction of these rates was given in the Government Resolutions quoted

Bassein. Government Resolution No. 8532, dated 26th May 1898.

•

Boha. Government Resolution No. 3835, dated 6th June 1898. in the margin. Original Survey rates were introduced in the margin. Original Survey rates were introduced in 3 Inám villages of Bassein Tiluka, as sanctioned in the Survey Commissioner's endorsement No. $\frac{8}{1000}$, dated the 1st July 1898. Original Survey rates were also introduced in 43 Government villages and 6 Inám villages of Pava Maval Táluka of Bhor State, as sanctioned by the Survey Commissioner in his No. $\frac{6}{1000}$, dated 17th August 1897.

		1								-	_		9.100 0	0104	
	Collectoret		Tilu	ka.			Government er Inám. B			or of villages.		Pormer Berenne,	Revised Demand.	Intress.	Decrease.
	1	1	1		-	*		_	•	_	•	•	7	•	•
		٦				,		_		-		Ra .	3 2.	jia,	Be.
	Think		Baselg	199		Government	-		Revision	_	•	1,17,800	1,61,308	60,713	
		ľ				Iolm in	•••	••••	Original		3	C3	1,110	477	•••
			٠						Total	•••	91	1,16,220	1,61,419	44,190	
	Kolába -	••[Bohn		{	Government	۰.		Revision	4 48	140	1,.6,575	1,20,423	14,648	
					ł	lośn 🛶					-				***
				•					. Total		144	1,16,575	1,20,421	11,648	•••
		I				Government			Grand Total		234	8,23,186	3,61,730	\$8,561	·
						Inim		+48	• Do		3	639	1,110	617	
	Bhor Finte	ł	Pavas Milve		-	Ceverament	-	•••	Original	-	40	20,465	41,761	36,200	
•	,		٠			Inter			De.		•	4,106	8,811	1,378	
		I	•						Total			30,630	67,329	10,003	

The result of the settlements just referred to is given below:-

During the year under report, proposals for Revision Settlements were submitted for sanction in the talukas marginally noted. The proposals for

Government villages. Sháhápur ... 256 Mabad... ... 248 Maugaon ... 226 Jaám villages. Bassein 3 Inám villages are the Original Settlement. The Settlement reports were all sent in by me. The amount of settlement calculations got through in the Head-Quarter Office has never been equalled before. In addition to working out kacha and pakka akár for the reports just mentioned, alterations in rates of the Vada, Kelva-Máhim, and Bassein Tálukas were calcu-

lated. I should like here to acknowledge the sustained energy shown by the Survey Dáftardár, Daji Hari Lele, to whom was entrusted the task of getting through this mass of figures.

54. The expenditure of advances on account of the erection of boundarymarks, and pay of flag-holders and chainmen was as follows :--

 Total advances, including previous year's balance.	Amount recoverable,	Amonut debisable to Government.	Balance for which Vasuli Pattake are not ready.	
1	3	3	· •	
Rs. > 32,904	Ra. 19,637	R ., 4,757	Rs. S,510	,

Unfinished villages of Phálni are chiefly responsible for the balance shown in column 4; but the Phálni Establishment was ordered to Dáhanu to do measurement in such a sudden manner that the arrears are unavoidable.

55. Ráo Bahádur Datatraya Mahadeo Patvardhan, Deputy Collector, was instructed in measurement by Mr. W. S. Cole, Assistant Superintendent.

56. With the exception of Mr. H. V. Sathe, none of the Assistant Superintendents in charge of linked establishments have placed anything on record regarding the manner in which the Survey Mámlatdárs, Head Surveyors, and Nimtandárs directly in charge of establishments handled their men. As, however, I was in charge of the survey the whole year (except for the $2\frac{1}{4}$ months immediately preceding Mr. Hearn's retirement when he took up his substantive appointment as Superintendent), I should like to express the opinion that, although I could not visit each establishment separately (but only 7 out of the 10), the general impression on my mind was that all must have done well. Finishing the measurement of Dáhanu Taluka and Umbargaon Petha was a very exciting race against time-Men who had been transferred to the Agricultural Department were retransferred to help to finish Dáhanu. These extra hands meant a considerable amount of extra test being thrown on the Survey Mámlatdárs, Head Surveyers and Nimtandárs, all of whom struck me as having worked cheerfully. In the finits paragraph of this report, I have suid that Mr. Hearn finished the classification testing of villages which it was found impossible to do the previous season. I may here say that while Mr. Hearn did the centre and coast villages, I was employed in testing the classification of villages further inland. But for this, I might have examined the work of the C, D, and F Establishments which would have completed the list.

The movements of the Superintendent, and afterwards of the Deputy 57. Superintendent, in charge of the survey during the season under report are as follows. In November Mr. Hudson first visited the "E" Establishment which was working in the South-West corner of Bhiwndi Taluka. Early in December he moved to the North-East of the same taluka and examined the work of the H and I Establishments, returning before Christmas to the "E" Establishment of which he was then in supervising charge. On the Survey Commis-sioner's return from special duty in Paris, Mr. Hearn proceeded to Dahanu Taluka and Umbargaon Petha to finish the classification testing of villages which it was found impossible to do the previous season. Mr. Hearn was employed in this way until his retirement in April. Mr. Hudson then examined the measurement work of the A; B, G, and Phalni Establishments in Dahanu Táluka, and on the 25th May proceeded to the Bassein Táluka to give out, before the rains set in, the Revision Settlement rates of the outlying villages in the North-East and South-East of that Taluka. He then proceeded to Head-Quarters until the 26th June, when he returned once more to the Bassein Táluka to give out the rates in the remaining villages. The introduction of the Re-vision Settlement rates before 31st July in the Roha Taluka was a still closer race against time than was the completion of the measurement of Dáhanu. Táluka. It was, however, successfully accomplished four days before the close It is to be hoped that the giving out of these rates in the of the revenue year. Konkan, during the monsoon, will not be quoted as a precedent for a repetition of the performance. The trip to Roha was about as unpleasant an experience as I have ever had. The rivers being in flood and unbridged, I had a crosscountry "wade " through 10 miles of Rice fields between Nagothna and Roha, and the same on the return journey. A word of praise is due to the three this who accompanied me on this damp expedition.

A. G. HUDSON,

Deputy Superintendent, Konkan Revenue Survey.

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