

No. 1088 of 1885.

From

LIEUT.-COLONEL J. W. M. ANDERSON,

Superintendent, Sind Revenue Survey.

To

H. N. B. ERSKINE, ESQUIRE,

Commissioner in Sind.

SUPERINTENDENT'S OFFICE,

Camp Arabji Wahi, 14th December 1885.

SIR,

I have the honor to submit this the Annual Progress Report of the Sind Revenue Survey and Settlement Department for the year 1884-85.

2. The following are the changes that have occurred amongst the officers during the year :—

Mr. B. G. Gilbert-Cooper, was promoted to 3rd Grade Assistant, on the 8th November 1884.

Colonel J. W. M. Anderson, was promoted to 1st Grade Superintendent, from 7th January 1885.

Mr. C. C. Warburton, was transferred to the Poona and Nasik Survey, on the 14th April 1885.

Messrs. G. Berrie and W. A. Boulton, were promoted to 1st Grade Assistants, on the 1st August 1885.

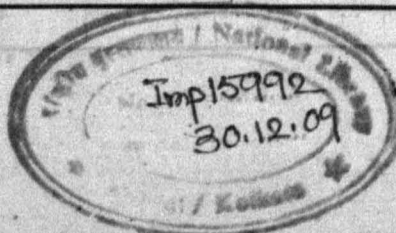
The following Officers were absent on leave for the period stated :—

Mr. L. W. Seymour, proceeded on sick leave to Europe, for one year, from 29th April 1885.

Mr. B. G. Gilbert-Cooper, proceeded on privilege leave, for three months, from 3rd August 1885, and had not rejoined at expiration of the year under report.

3. At the close of the year the strength of the Department as regards officers was as follows :—

Grade.	Present for duty.	On leave.	Total.
Superintendent	1	.....	1
Assistant Settlement Officer	1	.....	1
„ Superintendents	6	2	8
Total... ..	8	2	10



Measurement Operations.

4. Measurements, with a view to original and revision Settlements, were carried on in the following Talukas:—

Karachi Collectorate	{	Shahbandar*	Original.
		Ghorabari	"
		Jathi*	"
Hyderabad „	{	Tando Bago*	"
		Dero Mohbat*	Revision.
		Hyderabad*	"
		Mirpur Khas	"
Shikarpur „	{	Tando Allahyar	"
		Ubauro*	"
		Mirpur Mathelo*	"

In the talukas marked * the measurement of the whole taluka was completed.

Besides the above, desultory measurements were carried on in the following talukas which have been shown in previous reports as complete; these measurements were required on account of fresh lands having been taken up for cultivation subsequent to operations already reported:—

Badin, Ghotki, Shikarpur, Kakar, Thul and Hala.

The measurement in the last named taluka was of a portion of Jaghir lapsed to Government.

5. The following was the work done by the different Establishments during the field season:—

Establishment.	Superintending Officers.	Average No. of Measurers.	Measurements.						Remarks.
			No. of Villages.	Survey Nos.	No. of Waslas.	Arable Acres.	Undivided land, Acres.	Total Acres.	
1	2	3	4	5	6	7	8	9	10
A.	Mr. B. G. Gilbert-Cooper	22	77	12,609	51,854	86,025	1,42,168	2,28,203	
B.	" G. F. Mathieson	21	90	7,791	52,213	35,172	1,95,522	2,30,694	
C.	" W. D. Wilkins	22	66	7,907	48,364	30,116	1,55,281	1,85,397	
D.	" W. A. Boulton	23	86	10,347	64,415	44,460	2,63,677	3,08,137	
E.	" W. J. Wilkins	9	...	4,332	16,591	16,615	.....	16,615	
F.	" J. F. Nash	11	2	8,199	39,774	44,985	.....	44,985	
G.	" G. Bervie	10	...	4,801	20,079	28,586	12,167	41,753	
H.	" W. S. Cole	21	59	11,537	49,182	54,122	1,24,249	1,78,371	
I.	" C. C. Warburton	20	49	8,386	52,338	48,837	84,391	1,33,228	
K.	" L. W. Seymour	20	61	8,970	35,239	59,363	1,38,795	1,98,158	
	Total...	179	490	84,879	4,30,049	4,48,291	11,17,250	15,65,541	
	Previous year...	175	545	86,965	5,04,747	4,48,295	14,52,305	19,00,600	
	Increase...	3	...	...	...	...	...	...
	Decrease...	...	55	2,086	74,698	4	3,35,055	3,35,059	

Classing Establishments.

The work entered to the E. F. & G. Classing Establishments was done by measurers attached to them. The decrease in out-turn as compared with that of the previous year is owing partly to the two Establishments (the I. and K.) having been broken up before the close of the field season and partly to the nature of the country in which work was carried on; the decrease is principally in the unarable lands of which an unusually large area came under measurement during the year 1883-84.

6. The average out-turn per man as compared with that of the last year is as follows:—

		Nos.	Acres.
Area per man measured in 1883-84.....		496	2,554
Do. Do. 1884-85.....		474	2,504
Decrease.....		22	50

The decrease here shown is owing to the same causes as are noted in last para.

7. The following statement shows the test taken of the work entered in para. 5 above:—

Establishment.	Superintending Officers.	Tested by Assistants.			Tested by Native Testers.			Total Test.			Percentage of measurement as regards Nos.	Remarks.
		Survey Nos.	Acres.	Average error.	Survey Nos.	Acres.	Average error.	Survey Nos.	Acres.	Average error.		
1	2	3	4	5	6	7	8	9	10	11	12	13
A.	Mr. B. G. Gilbert-Cooper ...	716	4,727	0 13	...	...	A. G.	716	4,727	0 13	6	
B.	" G. F. Mathieson...	497	2,030	0 16	138	672	0 20	635	2,702	0 17	8	
C.	" W. D. Wilkins ...	556	2,548	0 23	...	...	...	556	2,548	0 23	7	
D.	" W. A. Boulton ...	618	3,026	0 24	...	...	...	618	3,026	0 24	6	
E.	" W. J. Wilkins ...	...	...	...	1,012	4,157	0 24	1,012	4,157	0 24	23	
F.	" J. F. Nash ...	...	...	...	988	5,811	0 30	988	5,811	0 29	12	
G.	" G. Berrie ...	...	...	...	503	3,114	0 13	503	3,114	0 13	10	
H.	" W. S. Cole ...	702	3,138	0 23	12	81	0 35	714	3,219	0 23	6	
I.	" C. C. Warburton...	502	3,137	0 17	...	...	...	502	3,137	0 17	6	
K.	" L. W. Seymour ...	448	3,020	0 22	65	365	0 23	513	3,385	0 22	6	
	Total...	4,039	21,626	0 20	2,718	14,200	0 25	6,757	35,826	0 21	8	

The figures shown in above are satisfactory both as regards the amount of test taken and the general accuracy of the work performed.

Form No. 2 attached is a detailed statement of test from which it will be seen that out of the total of 6,757 Nos. examined the error in 6,581 was within 2 per cent.

8. The following statement shows the distribution of days in each Establishment :-

Establishment.	Superintending Officers.	Percentage of year.		Percentage of Field Season.									Remarks.
		In Field.	In Recess.	Measurement.	Boundary Mark in-spection.	Measuring Boundary disputes, base lines, &c.	Sickness.	Non-co-operation.	Rain.	Travelling.	Indoor work.	Leave, holidays, &c.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
A.	Mr. B. G. Gilbert-Cooper ...	54	46	65	9	18	...	...	...	4	...	4	
B.	" G. F. Mathieson ...	60	40	58	8	22	...	...	...	11	...	1	
C.	" W. D. Wilkins... ..	54	46	45	9	22	4	4	...	15	...	1	
D.	" W. A. Boulton...f ...	56	44	44	11	32	1	...	...	10	...	2	
E.	" W. J. Wilkins	58	42	34	2	58	...	...	...	4	...	2	
F.	" J. F. Nash	56	44	32	43	17	...	1	1	2	1	2	Classing Establishments.
G.	" G. Berrie	56	44	41	2	42	3	...	...	10	...	2	
H.	" W. S. Cole	56	44	61	11	15	1	...	...	7	...	5	
I.	" C. C. Warburton	41	...	68	8	19	...	...	...	3	...	2	
K.	" L. W. Seymour	50	...	57	21	17	...	2	...	1	...	2	
	Average...	54	44	51	12	26	1	1	...	7	...	2	
	Previous year...	55	45	51	10	26	1	...	...	8	1	3	
	Increase...	...	...	...	2	...	...	1	...	...	...	...
	Decrease...	1	1	...	...	...	...	...	...	1	1	1	

The averages correspond very nearly with those of last year, the differences that do exist are so slight that they need no remark. Owing to the transfer of Mr. Warburton to the Poona Survey and Mr. Seymour's proceeding on medical certificate to Europe, two establishments were absorbed towards the end of the field season, the proportion of the year that they were employed in the field is shown in column 3 and that of column 4 is left blank.

9. During the season under report the survey, as usual, took the field on the 1st November, and closed work on the 15th May.

10. Mr. Seymour was ill during the whole of the Field Season and could only carry on his work with the greatest difficulty with this exception the health of both officers and men was good.

Cholera was prevalent throughout Lower Sind during the greater part of the year and although this Department only lost a certain number of chainmen and flagholders from the disease yet the demoralization attendant on the presence of cholera was sufficient to seriously affect the work of the establishments employed towards the mouth of the Indus.

Classification.

11. The three classing establishments were employed during the whole season in preparing the following talukas for the introduction of temporary settlement :—

Frontier Districts	Thull.*
Shikarpur Collectorate	{ Shikarpur.*
	{ Ghotki.*
Hyderabad „	{ Hyderabad.*
	{ Badin.

In the talukas marked thus * the classification of the whole taluka was completed.

12. The work of the three establishments was as shown below and compares in every respect favourably with the outturn of the previous year, it would have been even more favourable but for the high flood which most unseasonably swept down the Indus in April, and swamping all the southern portion of the Badin Taluka seriously impeded the progress of work there being carried on.

Establishment.	Officers in charge.	Average No. of Classers.	Classification.					Remarks.
			Villages.	Survey Nos.	Arable Acres.	Undivided land, Acres.	Total.	
1	2	3	4	5	6	7	8	9
E.	Mr. W. J. Wilkins ...	16	228	45,485	1,96,708	3,81,534	5,78,242	
F.	„ J. F. Nash ...	16	74	19,502	95,702	1,52,959	2,48,661	
G.	„ G. Berrie ...	16	92	21,461	1,21,110	1,91,618	3,12,728	
	Total...	48	394	86,448	4,13,520	7,26,111	11,39,631	
	Previous year...	42½	326	75,288	4,25,484	5,13,018	9,38,502	
	Increase...	5½	68	11,160	.....	2,13,093	2,01,129	
	Decrease...	...	...	.....	11,964	.....	.....

13. The outturn of work by the F. and G. Establishments appears small when compared with that of the E. this is due principally to the large area of land which formerly under jungle had been reclaimed and brought under cultivation in the Shikarpur Taluka during the two years which had elapsed since it was measured, and this work which under ordinary circumstances is carried on by the measuring establishments had to be done by the classers to the detriment of their normal work. No less than 49,629 acres had thus to be measured up in the Shikarpur Taluka above.

14. The average work turned out by each classer was as follows :—

	Nos.	Acres.
Average per man for 1883-84	1,771	22,082
Ditto. 1884-85	1,801	23,742
Increase.....	30	1,660

15. The following shows the test taken by the Assistants of the work entered in para. 12 above :—

Establishment.	Officers in charge.	Amount of test.				Percentage of classification test as regards Nos.	Remarks.
		Survey No.	Acres.	Average error per Rupee.			
				Soil.	Water.		
1	2	3	4	5	6	7	8
E.	Mr. W. J. Wilkins	9,996	45,776	...	...	22	
F.	„ J. F. Nash	3,693	21,030	...	...	19	
G.	„ G. Berrie	2,992	18,676	...	...	14	
	Total... ..	16,681	85,482	...	...	19	

The detail of the test is given in Appendix—form 6.

16. The statement below shows the distribution of days in the three classing establishments.

Establishment.	Officers in charge.	Percentage of year.		Percentage of field season.									Remarks.
		In Field.	In Recess.	Classification.	Boundary mark inspection.	Measuring boundaries, &c.	Sickness.	Non co-operation.	Rain.	Travelling.	In door work.	Leave, holidays, &c.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
E.	Mr. W. J. Wilkins ...	57	43	58	6	23	...	1	...	6	2	4	
F.	„ J. F. Nash ...	56	44	29	6	55	...	...	1	4	2	3	
G.	„ G. Berrie... ..	56	44	30	19	37	...	...	1	10	...		
	Average...	56	44	39	10	39	...	...	1	7	1	3	
	Previous year...	55	45	39	12	36	...	...	1	7	2	3	
	Increase...	1	...	...	...	3	...	...	...	...	...	...
	Decrease...	...	1	...	2	...	...	...	...	...	1	...	

The averages are almost identical with those of last year and need no remark.

17. During the two months of December and January, Mr. Berrie was detached from his classing establishment and was deputed to lay down the Boundary of the Jaghir of Gaibi Khan Chandio, of which all marks, if they ever existed, had disappeared, this work was satisfactorily carried out and marks of a permanent nature erected along the whole line of Boundary between it and the Kambar and Shahdadpur Talukas, a distance of about 45 miles.

Recess work.

18. Recess work was carried on nominally from 15th May, until the 31st October, but irrespective of some men being employed during this interval in completing work previously commenced, in it are also included the days necessary for travelling from, and to the Districts from headquarters.

19. The whole of the recess work of both measuring and classing establishments was completed by the end of the season.

Settlement.

20. During the year under report temporary settlements were proposed and sanctioned for the following talukas, and the whole of the maps, village registers, &c., were furnished to the taluka authorities, before the close of the year.

Shikarpur Collectorate ...	{ Shikarpur Taluka.	} With effect from 1885-86.
	{ Ghotki "	
Frontier District	Thull (80 villages) "	

Proposals for the temporary settlement of the Hyderabad Taluka with effect from 1886-87 were submitted but up to the end of the year the sanction of Government to the same had not been received.

The maps, registers, &c., of the Jacobabad Taluka, for which sanction from 1885-86, was received last year, were prepared and furnished to the Mukhtiarkar during the year under report.

21. During the year the provisional settlements, in force in the following Talukas, were confirmed.

Karachi Collectorate	{ Manjhand.
	{ Sijawal.

22. Consequent on the introduction of settlement the strength of Tappedars has been much increased and in accordance with the orders on the subject, propositions for new charges, &c., have up to date been submitted for the following Talukas; these have all been sanctioned with the exception of the Ghotki Taluka which has not yet been sanctioned.

Karachi Collectorate	{ Manjhand.
	{ Tatta.
	{ Mirpur Batoro.
	{ Sijawal.
	{ Guni.
	{ Hyderabad.
	{ Tando Allahyar.
	{ Halla.
Hyderabad	{ Shahdadpur.
	{ Naushahro.
	{ Kandiaro.
	{ Moro.

Shikarpur Collectorate	{	Naushahro Abro.
		Ratodero.
		Larkana.
		Kambar.
		Labdarya.
		Nasirabad.
		Mehar.
		Kakar.
		Ghotki.
		Shikarpur.
Frontier District.....	{	Shahdadpur.
		Jacobabad.
		Thul.

Maps, Lithographic Work, &c.

23. During the year the following maps have been issued to the revenue authorities :—

Lithographic Copies.

Karachi Collectorate...	Mirpur Batoro...	Map of 61 villages.
Hyderabad „ ...	Halla „ ...	91 „
Shikarpur „ ...	Naushahro Abro. „ ...	87 „
Frontier District ...	{ Jacobabad ...	69 „
	{ Shahdadpur ...	26 „

Besides the above, hand copies, of the following have been prepared and issued to Mukhtiarkars for immediate use preparatory to the issue of printed maps :—

Shikarpur Collectorate.	{	Ghotki ...	Map of 144 villages.
		Shikarpur „ ...	86 „
Frontier District	{	Jacobabad ...	99 „
		Thul ...	80 „
		Shahdadpur ...	2 „

24. The following taluka maps were prepared and having been phot zincographed, copies were issued to all the offices in which they are required :—

Hyderabad Collectorate.....	Halla.
Shikarpur „	Naushahro Abro.
Frontier District	Jacobabad.

25. In addition to the copies of the village registers usually supplied to the Collector and Mukhtiarkars, copies for the use of Tapadars of the following talukas have been prepared and issued :—

Hyderabad Collectorate.....	{	Naushahro.
		Kandiaro.
		Moro.
		Sakrand.
Shikarpur Collectorate	{	Larkana.
		Ghotki.
		Shikarpur.
Frontier District	{	Thul.
		Jacobabad.

Cost of the Survey.

26. The cost of the survey for the year was as follows :—

	Rs.
Sind Survey charges	1,85,289
Share of expenditure on paid labourers charge- able to Government	44,887
Total cost Rs.....	2,30,176.

27. There is a saving on the sanctioned grant for the year as follows :—

	Rs.
Sanctioned grants	2,07,340
Deduct—Sind Survey charges.....	1,85,289
Saving Rs.....	22,051.

28. The unadjusted balance at the commencement of the year was Rs. 3,34,068-12-3. Bills for Rs. 1,02,942-11-5 were sent in during the course of the year ; and at the close, the balance against this Department, including the advance received during the year (Rs. 1,23,459-4-11), stood at Rs. 3,54,585-5-9.

29. Since the close of the year bills for Rs. 59,941-2-7 have been sent in for adjustment and I hope during the next few months to be able to send in bills for Rs. 62,900-10-9 more. On submission of the bills, last referred to, there will remain no arrears of boundary mark accounts that can be adjusted ; the balance that will then remain will be on account of talukas still in progress, and for them the accounts cannot be made out until the whole of the measurement, &c., is completed and the talukas ready for settlement.

30. The cost per acre for the year is shown below compared with that of the previous year :—

	1883-84.				1884-85.		
	Rs.	A.	P.		Rs.	A.	P.
Measurement	0	1	7		0	1	9
Classifications.....	0	1	0		0	0	9
Both operations.....	0	2	7		0	2	6.

With reference to this subject I would draw attention to the very satisfactory diminution which has been effected in the cost of survey operations during the past few years, it has gradually decreased from 5 annas 10 pies per acre in 1880-81, to 3 annas 6 pie, to 2 annas 10 pie, to 2 annas 7 pie, to 2 annas 6 pie during the year under report, and this in spite of the very large increase in the pay of officers caused by bringing them under the Presidency Pay Rules ; detail of this cost and its distribution is contained in Appendix x, form 9 and 10.

31. I would also draw attention to the satisfactory results which have attended the introduction of temporary settlements in the Province as shown in detail in Appendix Statement 14, from which it will be seen that in the talukas which were under temporary settlement during the year 1884-85, the total revenue realizations amounted to Rs. 17,15,378 against an average of Rs. 11,51,999 for the 5 years previous to such settlement.

32. In conclusion, I beg to bring to notice the names of the following Officials and Zamindar who have given efficient aid to this Department in the prosecution of the work during the year under report.

Diwan Chandumal walad Jagatrai, Mukhtiarkar of Shahbandar.
 „ Gopaldas walad Tulsidas, „ Ghorabari.
 „ Khushiram walad Thawardas, „ Ubauro.
 Zamindar Ahmad Shah walad Umed Ali Shah of Tando Bagó.

I have the honour to be,

Sir,

Your most obedient servant,

J. W. M. ANDERSON, Colonel,
 Superintendent, Sind Revenue Survey.

P. S.—A sketch-map is hereto attached showing the lands brought under revision and temporary settlements up to date, and the land measured but not yet brought under settlement.

REVENUE DEPARTMENT.

Commissioner's Office,

Camp Johi, 8th January 1886.

Depto-14/16
The annual progress report of the Superintendent, Sind Revenue Survey, is forwarded to Government, and calls for but little remark from the Commissioner. Lieutenant-Colonel J. W. M. Anderson has continued to control the operations of the department and has explained very clearly what has been done.

2. The strength of the establishment of Assistant Superintendents was reduced by one during the year by the transfer of Mr. C. C. Warburton to the Poona and Nasik Survey, but with this exception the working establishment was the same as in the previous year.

3. Full details of the work done during the year are given in paragraphs 4 to 19. The amount of measurement work done was considerably less than in the previous year, but the falling off was almost entirely in the area of uncultivated lands, the area of arable land being within four acres of the same class of land last year. There was on the other hand an increase in amount of work done by the so-called Classing Establishment. The falling off in the measurement work done is attributed partly to the large area of unarable land that had to be measured and partly also to the presence of cholera, which for a considerable time was very deadly in Lower Sind, and, as was to be expected, seriously interfered with the work of some of the establishments. The work of two of the Classing Establishments was considerably impeded in the Badin Taluka of the Hyderabad District by the very unusual rise in the river Indus in April, which burst the dam at the mouth of the Fuleli and sent down so much water that a large part of the Taluka was flooded.

4. The measurement of seven talukas was completed, that of two being done for the first time; in the other five the work done was for a revision settlement. Besides this one taluka was partially measured for the first time, and two partially for revision settlements. The classification work or rather testing, was also completed in four talukas, and partly done in two. The amount of work done during the season appears to have been satisfactory.

5. Settlement rates were sanctioned for the Shikarpur and Ghotki Talukas in the Shikarpur Collectorate and for 80 villages in the Thul Taluka of the Upper Sind Frontier District. The rest of this taluka is not at present to be brought under settlement. These settlements come into force from 1885-86. Proposals for the settlement of the Hyderabad Taluka to have effect from 1886-87 were also submitted, but sanction was not received till after the close of the year. All of these settlements were what are called "temporary," that is, the rates depend not on detailed classification of soils, but on the position of the villages and general advantages possessed and on whether rice or other descriptions of crops are grown, and on the nature of the water-supply.

6. The experimental settlements provisionally introduced into the Manjhand and Sujawal Talukas in the Karachi Collectorate were also confirmed for 10 years during the year, *the former for 10 years, for the latter no time*

7. The work of subdividing the old Tapadar charges and of providing new village maps and registers progressed satisfactorily during the year.

8. The cost of survey operations, again this year, shows a decrease will be seen from the figures in the following table showing the general results of survey operations for the three years 1882-83 to 1884-85.

Years.	General area measurement.	Return of Classification.	Expenditure.	Combined cost per acre.		
				Rs.	a.	p.
1882-83.....	15,13,431	10,71,531	2,52,528	0	2	10
1883-84.....	19,00,600	9,38,502	2,48,306	0	2	7
1884-85.....	15,65,541	11,39,631	2,30,176	0	2	6

9. This decrease in cost is, the Commissioner concludes, in a very large degree owing to the work of the settlements under the new "temporary" settlement system being much simpler than that under the old system which involved classification of soils; but as the results of the new system have been very satisfactory as yet, and as the principle of these settlements appears to be appreciated by the people and preferred to the former more elaborate settlements, this decrease in the cost of survey operations must be considered amongst the advantages of the temporary settlement system.

10. The Settlement Officer in his 31st para. has drawn attention to the increase in revenue under the temporary settlement, but it must be borne in mind that in many of the talukas in which the increase is greatest, such increase is due to a very large degree to improved irrigation which has led to an increase in the area under cultivation and also to rice being grown where dry crops only formerly were, and to higher rates of assessment being paid in consequence. The increase, however, shows that the rates are not excessive and do not tend to check the expansion of cultivation which invariably follows moderate rates combined with a good supply of water for irrigation, without which no increase in Sind can be expected.

11. The work of the Settlement Department during the year has progressed in a satisfactory manner, and has been ably presided over by the Superintendent, Lieutenant-Colonel J. W. M. Anderson, who, as his report shows, has been well aided by his Assistants and likewise by the revenue officials in charge of the talukas in which operations were being carried on. He names also one Zamindar who rendered good assistance in the Tando Bago Taluka.

H. N. B. ERSKINE,
Commissioner in Sind.

The Annual Progress Report of the Sind Revenue Survey and Settlement Department for 1884-85.

No. 3006.

REVENUE DEPARTMENT.

Bombay Castle, 20th April 1886.

Memorandum from the Commissioner in Sind, No. 40, dated 8th January 1886—Forwarding, with his remarks, the annual progress report of the Superintendent, Sind Revenue Survey, for the year 1884-85.

RESOLUTION.—There were seven measuring and three classing establishments at work in the Province of Sind in the year under review as in the previous year, but about the close of the field season two establishments were absorbed owing to the transfer of one Assistant Superintendent to the Presidency Proper and the departure of another on furlough to Europe. Measurement was carried on in ten talukás, in seven of which it was completed. Lands taken up for cultivation after completion of the general survey were also measured in the Badin, Ghotki, Shikárpur, Kakar, Thul and Hála Talukás.

2. Although there was a slight increase in the average number of measurers employed, the total area measured fell from 1,900,600 acres in 1883-84 to 1,565,541 acres in 1884-85. The decrease is attributed partly to the breaking up of the two establishments before the close of the field season and partly to the nature of the country in which measurement was carried on. The work was generally done with accuracy, the highest average error discovered on test by the several Assistant Superintendents being 30 gunthás in 100 acres.

3. The three so-called classing establishments were employed principally in revising measurements preparatory to the introduction of temporary settlements in the Thul, Shikárpur, Ghotki, Hyderabad and Badin Talukás. The work in the last taluka was seriously impeded by an unusual rise in the River Indus. The area of arable land shown as classed during the year under review (413,520 acres) was less by 11,964 acres than in the previous year, but that of land not divided into survey numbers (726,111 acres) was larger by 213,093 acres.

4. In the year under review temporary settlements were sanctioned for the Shikárpur and Ghotki Talukás and for 80 villages in the Thul Taluka, and the provisional settlements in force in the Mánjhand and Sujával Talukás were confirmed. The total revenue realized in the talukás which have been settled amounted in 1884-85 to Rs. 40,50,674 as compared with an average of Rs. 29,04,092 in the five years preceding the settlement. The increase is however, as the Commissioner in Sind remarks, to a large extent due to improved irrigation and consequent extension of cultivation, but it indicates that the survey rates are moderate.

5. The total expenditure incurred during the year was Rs. 2,30,176 or Rs. 12,130 less than in the previous year. The cost of survey operations per acre was Re. 0-2-6 in 1884-85 as compared with Re. 0-2-7 in 1883-84 and Re. 0-5-10 in 1880-81. Mr. Erskine however points out that the decrease shown by the latter comparison is mainly due to the adoption of the system of temporary settlements, for which detailed classification of soil is not required. The balance remaining unadjusted at the close of the year amounted to Rs. 3,54,585. It is stated that the greater part of the balance pertains to the talukás in which work is still in progress, and that it will not be possible to make the necessary adjustment until the settlement is introduced into them.

6. Colonel Anderson is entitled to credit for the ability with which he has continued to supervise the work of the Sind Survey Department and his Assistants appear to have conducted their duties efficiently.

J. DE C. ATKINS,
Acting Under Secretary to Government.

To

The Commissioner in Sind,	} With copies of the papers.
The Superintendent, Sind Revenue Survey,	
The Survey and Settlement Commissioner,	
The Accountant General,	
The Public Works Department of the Secretariat (Irrigation).	
The Editors' Table, Bombay,	} By letter.
The Branch Editors' Table, Poona, care of the Collector of Poona.	
The Government of India,	} By letter.
The Secretary of State for India.	

(24/50).

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