

*The Annual Progress Report of the Sind Revenue Survey and Settlement Department for 1882-83.*

No. 3390.

REVENUE DEPARTMENT.

Bombay Castle, 26th April 1884.

Letter from the Commissioner in Sind, No. 290, dated 22nd January 1884—Submitting, with his remarks, the Annual Progress Report (No. 1175 of 1883) of the Superintendent, Sind Revenue Survey, for the year 1882-83.

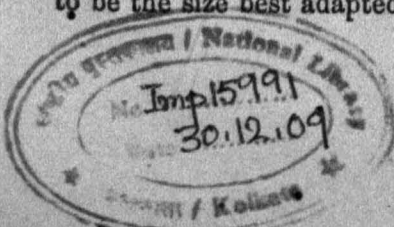
RESOLUTION.—During the year under review the Sind Revenue Survey Department continued to be under the supervision of Lieut.-Colonel Anderson.

2. Ten establishments were at work in the field, as in the previous year. Original measurement was in progress in eight talukás and revised measurement in two talukás, while in two others the establishments were employed partly on original measurement and partly on re-measurement. The measurement of five talukás was completed. Classification was carried on in five talukás, in four of which it was completed.

3. With an average increase of 19½ measurers the total area measured rose from 11,71,811 acres in 1881-82 to 15,13,431 acres in the year under report. The average area measured by each man also rose from 2,496 acres to 2,500 acres. The very large increase of 3,41,620 acres in the total area measured is stated to be mainly due to the fact that the villages measured contained a large area of waste land, but at the same time there is shown to be a substantial increase of 49,398 acres in the area of arable land measured in 1882-83 as compared with that measured in the previous year. His Excellency the Governor in Council concurs with the Commissioner in thinking that this result is satisfactory. The test of the measurement taken by Assistants and native testers amounted to nearly 8 per cent. of the area measured, and the average error discovered was 21 gunthás per 100 acres. The highest error discovered in the tests taken by the Assistants was 23 gunthás per 100 acres. It is thus clear that the work of the measurers was generally fairly accurate.

4. Two establishments were engaged in classification during the year under review, and the area of arable land classified was 3,60,630 acres as compared with 3,06,006 acres in the previous year. The area of undivided land classed during the year under review also exceeded that of the previous year by 3,68,216 acres. There was an increase of eight in the average number of classers employed, and the average area classified by each man rose from 32,435 acres in 1881-82 to 38,269 acres in 1882-83. The test of the work taken by the Assistants extended to 73,080 acres. It is explained however that as the classification was preparatory to temporary settlement the test was mainly confined to examination of the division of land and of the record of occupancy, &c., and the extent of the error discovered is not shown. A much smaller number of days was devoted to classification proper in the year under review than in the previous year. This result is due to the facts that a larger number of fields had to be broken up, which work is usually done by the classers, and that the classers had to measure much land, for which application was made after the measuring establishments had completed the measurement of land in occupation when they were at work in the taluka.

5. In paragraph 2 of Government Resolution No. 2566, dated 30th March 1883, His Excellency the Governor in Council concurred in an opinion expressed by Lieut.-Colonel Anderson in his report for 1881-82 that the average size of fields should not be so much as 6 acres. It is satisfactory to observe that the average size has now been reduced to a little below five acres, which is considered to be the size best adapted for the temporary settlements now being applied.



6. In the year under review revised rates of assessment were introduced into thirty-three villages of the Nasirabad Táluka of the Shikárpur Collectorate, and temporary settlements were sanctioned for four tálukás. The provisional settlements in force in the Mehar, Kakar, Labdarya and Tigar Tálukás of the Shikárpur Collectorate were confirmed for a period of ten years. It appears from the supplementary statement submitted by the Superintendent with his letter No. 158, dated 16th February 1884, that in thirty-one tálukás in the Karáchi, Hyderabad and Shikárpur Districts, which have been settled, the revenue realised during 1882-83 was Rs. 35,91,790, while the collections before the settlement amounted only to Rs. 25,20,942

7. The average cost per acre of measurement was Re. 0-2-3 and of classification Re. 0-0-7, while in the previous year it was Re. 0-2-7 and Re. 0-0-11 respectively.

8. The fixed survey charges of the year under review amounted to Rs. 2,00,288. The total cost of the survey was however Rs. 2,52,528, which exceeded the sum expended during 1881-82 by Rs. 28,381. The balance remaining unadjusted at the close of the year (Rs. 2,82,805) was less by Rs. 42,299 than that of the preceding year. Bills for Rs. 81,689 out of this sum have been sent in for adjustment since the close of the year or will be submitted within a few months. It is stated that the remainder of the balance pertains to tálukás in which work is still in progress, and that it will not be possible to make the necessary adjustments until the work is completed.

9. Credit is due to Lient.-Colonel Anderson for the efficient control which has been exercised by him over the administration of the department.

10. The Commissioner in Sind should be requested to submit the Sind Survey Progress Report with his remarks in print in future, and to forward seventy spare copies to Government.

W. P. SYMONDS,

Acting Under Secretary to Government.

To.

The Commissioner in Sind,  
The Superintendent, Sind Revenue Survey,  
The Survey and Settlement Commissioner,  
The Accountant General,  
The Public Works Department of the Se-

cretariat, Irrigation.

} With copies of the papers.

The Government of India,

The Secretary of State for India.

} By letter.



REVENUE DEPARTMENT.

FROM

H. N. B. ERSKINE, Esq.,  
COMMISSIONER IN SIND.

TO

HIS EXCELLENCY THE RIGHT HONOURABLE  
SIR JAMES FERGUSSON, BART., K.C.M.G. & C.I.E.,  
GOVERNOR and PRESIDENT in COUNCIL, BOMBAY.

*Commissioner's Office,  
Camp Sijawal, 22nd January 1884.*

RIGHT HONOURABLE SIR,

I have the honour to submit the Annual Progress Report of the Superintendent, Sind Revenue Survey, for the year 1882-83.

2. The department during the year has been under the supervision of Lieutenant-Colonel Anderson.

3. During the season there were ten establishments in the field as in the previous year. Measurement was carried on in twelve talukas, the measurements being completed in 5 talukas. In eight talukas the measurement was made with a view to original settlements, in two partly for original and partly for revision settlements and in two talukas wholly for revision settlement.

4. The measurement work done by each establishment is detailed in paras. 6 and 7 of the report. There is again a large increase in the outturn of work done and there is also an increase in the average outturn per man. The increase over last year is 3,41,620 acres and it will be remembered that last year also showed a still larger increase over the previous year. It is explained that a good deal of this is due to the circumstances of the land measured, that is, the villages which happened to come under measurement, contained a good deal of waste, at the same time there is a very solid increase in respect of arable land of 20,813 Survey Nos. and 49,398 acres, and this cannot but be considered satisfactory.

5. The average size of survey numbers is a little under 5 acres.

6. The amount of test taken by Assistants is shown in para. 9. There is an increase in the number of survey numbers tests coupled with a decrease in area. The highest average error discovered is 29 gunthás, while the average on the total tests is 21 gunthás. The test of the Assistants discloses an average error of 19 gunthás as against 17 gunthás in the previous year, while in the case of native testers, the average on the total test is 24 gunthás. These results, in the opinion of the Superintendent, are satisfactory both as regards the amount of test taken and the results.

7. The period spent in the field is again in excess of the previous year, and there is a large increase in the percentage of time spent in measurements. The health of the establishment was better than in the previous year, which is satisfactory, and doubtless partly explains the good results obtained.

8. There were, again, two establishments detailed for classification work. There is a large increase in the outturn of work by these establishments who were working with increased establishments and were a long time in the field. There is a large decrease, however, in the percentage of the days given to classification by the establishments, which is accounted for by the greater amount of time unavoidably given to breaking up numbers and new measurement

to take in cultivation, which occurred since the measuring establishments had completed their work.

9. The amount of settlement work completed during the year is concisely shown in paras. 24 to 26.

10. The work of preparing maps and registers has also made very good progress during the year.

11. The cost per acre of settlement operations, again, shows a decrease, and is 2 annas and 10 pies as against 3 annas and 6 pies in the previous year. This is very satisfactory considering the large increase in the number of survey numbers measured.

12. The general results of the year's operations, as compared with those of last year, are given below :—

Years.	GENERAL AREA, RETURN OF		Expenditure.	Combined Cost per Acre.
	Measurement.	Classification.		
			Rs.	A. p.
1882-83 ... ..	1,513,431	1,071,531	2,52,528	2 10
1881-82 ... ..	1,171,811	648,691	2,24,147	3 6 with settlement.
				1 10 without settlement.

13. The figures for Statement No. 14 have not yet been received by the Superintendent, but will be submitted when received. In the meantime the financial results of the settlement operations cannot be stated.

14. The unadjusted balance against the department at the close of the year is less than last year. Since the close of the year the balance has been still further reduced, and it will be seen from Statement No. 22 that a great portion of the balance cannot at present be disposed of.

15. There is thus every reason to be satisfied with the administration of the department during the year.

I have the honour to be,  
 Right Honourable Sir,  
 Your most obedient Servant,  
 H. N. B. ERSKINE,  
 Commissioner in Sind.



No. 1175 of 1883.

FROM

LIEUT.-COLONEL J. W. M. ANDERSON,  
SUPERINTENDENT, SIND REVENUE SURVEY.

TO

H. N. B. ERSKINE, ESQUIRE,  
COMMISSIONER IN SIND.

*Superintendent's Office,  
Camp Nára, 31st December 1883.*

SIR,

I have the honour to submit the Annual Progress Report of the Sind Revenue Survey and Settlement Department for the year 1882-83.

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

Mr. C. E. Biddulph was promoted to Assistant Superintendent on the 14th December 1882.

Mr. L. W. Seymour was promoted to 3rd Grade Assistant on the 22nd July 1883.

Messrs. W. S. Cole and W. D. Wilkins were promoted to 3rd Grade Assistant on the 20th October 1883.

The following officers were absent on leave for the periods stated: Mr. W. A. Boulton, on privilege leave from 18th June to 20th September 1883.

Mr. W. D. Wilkins, on privilege leave from 23rd July to 22nd October 1883.

Mr. C. E. Biddulph, on privilege leave from 8th October to 7th November 1883.

Mr. L. W. Seymour, on privilege leave from 12th October to 16th November 1883.

3. With the exception of the absences shown above the whole of the officers were present for duty throughout the entire year, and at close the state of the department as regards officers was as follows:—

Grade.				Present for duty.	On leave.	Total.
Superintendent	...	...	...	1	...	1
Assistant Settlement Officer	...	...	...	1	...	1
Assistant Superintendents	...	...	...	10	2	12
Total				12	2	14

#### Measurements.

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

Karáchi Collectorate	{	Sháhbandar...	...	Original.
		Jathi*	...	"
		Mirpur Sakro	...	"
		Sehwan	...	"
Hyderabad Collectorate...	{	Hyderabad	...	Revision.
		Halla*	...	"
		Badin	...	Original.
		Guni*	...	"

Shikárpur Collectorate ...	{ Shikárpur* ...	{ Revision and original
	{ Naushahro Abro* ...	{ in part.
Frontier Districts ...	{ Jacobabad ...	{ Original.
	{ Thul... ...	{ „

In the talukas marked\* the measurements were completed.

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

Establishments.	Superintending Officers.	Average No. of Measurers.	MEASUREMENT.					
			No. of Villages.	Survey Nos.	No. of Waslas.	Arable Acres.	Undivided land—Acres.	Total.
1	2	3	4	5	6	7	8	9
A.	Mr. B. G. Gilbert-Cooper ...	18½	61	8,819	56,657	55,860	148,796	204,656
B.	„ G. F. Mathieson ...	20½	50	8,909	75,053	44,801	102,672	147,473
C.	„ W. D. Wilkins ...	17½	73	7,397	63,399	35,506	116,402	151,908
D.	„ W. A. Boulton ...	21	81	9,901	76,012	57,387	183,237	240,624
E.	„ W. J. Wilkins ...	11½	159	5,787	35,300	24,235	...	24,235
F.	„ J. F. Nash ...	11½	1	3,484	21,414	17,600	1,099	18,699
G.	„ G. Berrie ...	18½	58	11,033	78,189	41,829	105,608	147,437
H.	„ W. S. Cole ...	20	81	9,732	55,959	67,203	195,081	262,284
I.	„ P. Ross ...	21½	92	10,317	99,022	51,652	153,096	204,748
K.	„ L. W. Seymour ...	20½	39	9,960	76,115	57,661	53,706	111,367
	Total ...	181½	695	85,339	637,120	453,734	1,059,697	1,513,431
	Previous year ...	161½	618	64,526	501,208	404,336	767,475	1,171,811
	Increase ...	19½	77	20,813	135,912	49,398	292,222	341,620
	Decrease ...	...	...	...	...	...	...	...

The work entered to the E. and F. Classing Establishments was done by Measurers attached to them.

6. With an average addition of 19½ Measurers there has been an increase of 20,813 Survey Numbers, 49,398 Arable Acres, 292,222 Acres of Undivided land and 1,35,912 Waslas. The average outturn per man as compared with that of last year is as follows :—

	Nos.	Acres.
Area per man measured in 1881-82...	398	2,496
„ „ „ 1882-83...	470	2,500
Increase ...	72	4

7. There is the very large increase in the total area measured of 341,620 acres as compared with that of the preceding year, which was itself an increase of 472,226 acres over that of the previous year; this is due to the large waste



area contained in the villages which have happened to come under measurement, but the most satisfactory portion of the increase of the year under report is the 20,813 Survey Numbers and 49,398 acres of Arable Land.

8. The average size of Survey Numbers as divided by the Measuring Establishments is again, this year, a little over 5 acres, but during the progress of the classification a good deal of subdivision of Numbers takes place, so that the average area of each field brought under settlement is actually rather less than 5 acres, which is about the size I consider best adapted for the temporary settlements now being applied.

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

Establishments.	Superintending Officers.	TESTED BY ASSISTANTS.			TESTED BY NATIVE TESTERS.			TOTAL TEST.			Percentage of Measure- ment as regards Nos.
		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
				A. g.			A. g.			A. g.	
A.	Mr. B. G. Gilbert-Cooper.	545	2,919	0 12	...	...	...	545	2,919	0 12	6
B.	„ G. F. Mathieson ...	544	2,630	0 18	...	...	...	544	2,630	0 18	6
C.	„ W. D. Wilkins ...	577	3,366	0 19	...	...	...	577	3,366	0 19	8
D.	„ W. A. Boulton ...	685	4,244	0 20	...	...	...	685	4,244	0 20	7
E.	„ W. J. Wilkins ...	...	...	...	700	2,920	0 19	700	2,920	0 19	12
F.	„ J. F. Nash ...	...	...	...	259	1,415	0 29	259	1,415	0 29	7
G.	„ G. Berrie ...	773	4,478	0 20	...	...	...	773	4,478	0 20	7
H.	„ W. S. Cole ...	718	5,233	0 20	...	...	...	718	5,233	0 20	7
I.	„ P. S. Ross ...	832	4,307	0 17	...	...	...	832	4,307	0 17	8
K.	„ L. W. Seymour ...	650	3,979	0 23	...	...	...	650	3,979	0 23	7
	Total ...	5,324	31,156	0 19	959	4,335	0 24	6,283	35,491	0 21	7

This return is satisfactory both as regards the amount of test taken and the result showing the general accuracy of the work performed. It should be mentioned that the Officers in charge of the G. H. I. and K. Establishments had, during part of the season, the aid of Assistants without separate charges to help them in test and general superintendence of their work.

10. In the detailed statement of test, *vide* Form No. 2 attached, it will be seen that in a few Survey Numbers comparatively large errors were detected, these were generally either in the measurement of very small Numbers in which a small difference of area represents a large percentage, or were caused by the dropping of a chain in the measurement of base lines, in the case of the latter, even had the error not been detected at test, it would have come out in the revision of the plotting of the maps when examined during recess; taking all into consideration I have every reason to suppose that a good standard of accuracy is maintained.

11. The following statement shows the distribution of days in each Establishment:—

Establishment.	Officer in Charge.	PERCENTAGE OF YEAR.		PERCENTAGE OF FIELD SEASON.								
		In Field.	In Recess.	Measurement.	Boundary-mark inspection.	Measuring boundary disputes, base lines, &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
A.	Mr. B. G. Gilbert-Cooper ...	56	44	48	15	27	...	...	...	5	...	5
B.	„ G. F. Mathieson ...	55	45	62	7	18	...	...	...	9	1	3
C.	„ W. D. Wilkins ...	57	43	51	14	17	...	...	...	13	1	4
D.	„ W. A. Boulton ...	55	45	55	12	20	...	...	...	10	...	3
E.	„ W. J. Wilkins ...	66	34	35	2	48	2	...	...	7	4	2
F.	„ J. F. Nash ...	69	31	14	58	16	2	...	...	3	5	2
G.	„ G. Berrie ...	56	44	60	10	12	3	1	...	10	1	3
H.	„ W. S. Cole ...	55	45	57	12	15	1	1	...	9	...	5
I.	„ P. Ross ...	57	43	60	11	17	1	...	...	6	1	4
K.	„ L. W. Seymour ...	55	45	57	19	11	1	...	...	6	2	4
	Average ...	58	42	50	16	20	1	...	...	8	1	4
	Previous year ...	56	44	44	21	22	2	1	...	6	1	3
	Increase ...	2	...	6	...	...	...	...	...	2	...	1
	Decrease ...	...	2	...	5	2	1	1	...	...	...	...

12. There is again this year a slight increase in the average number of days employed in the field and a corresponding decrease in those in recess; 50 per cent. of the Field days being employed in actual measurement is also satisfactory; the other differences require no remark.

13. As during the previous two years the survey took the Field on the 1st November and closed work on the 15th May.

14. The health of both Officers and men throughout the season was good.

#### Classification.

15. During the season under report the Classing Establishments were employed in revising the measurement, collecting information, &c., preparatory to the introduction of temporary settlements into the following Tálukas:—

Karáchi Collectorate	...	{ Sijáwal.*
		{ Mirpur Batoro.*
		{ Sehwan.
Hyderabad	„	... Guni.*
Shikárpur	„	... Sijáwal.*

The work in those marked\* was completed.



16. The work of the two Establishments is shown below.

Establishments.	Officers in Charge.	Average No. of Classers.	CLASSIFICATION.					REMARKS.
			Villages.	Survey Nos.	Arable Acres.	Undivided Land Acres.	Total Acres.	
1	2	3	4	5	6	7	8	9
E.	Mr. W. J. Wilkins ... ..	13½	178	44,048	210,333	229,084	439,417	
F.	„ J. F. Nash... ..	14½	185	33,801	150,297	481,817	632,114	
	Total ...	28	363	77,849	360,630	710,901	1,071,531	
	Previous year ...	20	230	65,536	306,006	342,685	648,691	
	Increase ...	8	133	12,313	54,624	368,216	422,840	

17. The above shows a large increase under every head over the outturn of the previous year, which is due partly to the increased strength of Establishments and partly to the longer season during which they were working in the Field.

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

	Nos.	Acres.
Average per man for 1881-82 ...	3,277	32,435
„ „ 1882-83 ...	2,780	38,269
Decrease ...	497	...
Increase ...	...	5,834

19. The following shows the test taken by the Assistants of the work shown in para. 16 above :—

Establishments.	Officers in Charge.	AMOUNT OF TEST.				Percentage of Classification test as regards Nos.	REMARKS.
		Survey Nos.	Acres.	Average error per Rupee.			
				Soil.	Water.		
1	2	3	4	5	6	7	8
E.	Mr. W. J. Wilkins ... ..	7,847	45,891	...	...	18	
F.	„ J. F. Nash... ..	4,382	27,189	...	...	13	
	Total... ..	12,229	73,080	...	...	16	

20. The next statement shows the distribution of days in the Classing Establishments :—

Establishments.	Officers in Charge.	PERCENTAGE OF YEAR.		PERCENTAGE OF FIELD SEASON.									REMARKS.
		In Field.	In Recess.	Classification.	Boundary marks 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...	66	34	55	9	21	1	...	...	8	2	4	
F.	„ J. F. Nash ...	69	31	30	20	40	1	...	...	4	2	3	
	Average ...	67½	32½	42½	14½	30½	1	...	...	6	2	3½	
	Previous year ...	56½	43½	59½	13	16½	3	...	...	5	½	2½	
	Increase ...	11	...	...	1½	14	...	...	...	1	1½	1	
	Decrease ...	...	11	17	...	...	2	...	...	...	...	...	

The increase of time passed in the Field, 11 per cent. was due to the necessity of keeping out the Establishments so as to complete the Talukas commenced which had to be brought under settlement for the next year, Mr. Nash's Establishment was therefore obliged to work in the Field up to the end of, and that of Mr. Wilkin's up to the middle of, June. I was very unwilling to keep the men out so late in the hot weather and will endeavour not to do so in future, but in this case it was absolutely necessary.

21. There is a large decrease in the number of days devoted to actual classification owing to the amount of new measurement, and breaking up of Numbers which is represented by the 14 per cent. increase under that head. The breaking up of Survey Numbers, a work which to a great extent must always fall to the lot of the classers—has already been referred to in para. 8 above, and the new measurement was caused by the extension of cultivation that occurred between the time of measurement and classification or to the applications of Zemindars for land which they neglected to make at the time of measurement; these causes seriously interfered with the progress of classification proper, but to a certain extent must always occur, the amount varying with the peculiarities of the district in which work is being carried on.

#### *Recess Work.*

22. 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.

23. The whole of the Recess Work of both Measuring and Classing Establishments was completed by the end of the season.

#### *Settlement.*

24. During the year under report a Revision Settlement was introduced into 33 villages of the Nasirabad Taluka of the Shikarpur Collectorate, with effect from the year 1883-84.

25. Temporary Settlements were proposed and sanctioned for the following Talukas and the whole of the Registers, Maps, &c., were furnished to the Mukhtyarkars before the close of the year.

Karachi Collectorate	...	{ Sijawal	Taluka ...	} With effect from the year 1883-84.
Hyderabad	„	{ Mirpur Batoro	„ ...	
Shikarpur	„	{ Guni	„ ...	
		{ Sijawal	„ ...	



26. During the year the Provisional Settlements in force in the following Tálukas were confirmed :—

Shikárpur Collectorate ...	{	Mehar Táluka...	...	} For 10 years from 1882-83.
		Kakar	„ ...	
		Tigar	„ ...	
		Labdarya	„ ...	

*Maps and Lithographic Work.*

27. During the year the following Maps have been issued to the District authorities :—

*Maps prepared at the Photozincographic Office, Poona.*

Táluka Lárkhána	...	...	Maps of 67 Villages.
„ Nasirabad	...	...	51 „
„ Tatta	...	...	43 „

*Lithographed copies.*

Táluka Labdarya	...	...	Maps of 84 Villages.
„ Ratadera	...	...	52 „
„ Sijáwal (Shikárpur)	...	...	48 „
„ „ (Karáchi)	...	...	58 „
„ Guni	...	...	46 „
„ Mirpur Batoro	...	...	2 „

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

Táluka Tatta	...	...	Maps of 13 Villages.
„ Guni	...	...	138 „
„ Sijáwal (Karáchi)	...	...	11 „
„ Mirpur Batoro	...	...	62 „

28. Hitherto the Tapadárs have been accustomed to provide themselves with copies of the Village Registers from those in charge of the Mukhtyárkar of the Táluka, but under instructions lately received, they are now to be furnished with authenticated copies from this office; this work was taken up during the year under report and by the close, copies of the Registers of the following Tálukas were completed, and have since been issued to the officials concerned.

Karáchi Collectorate	...	...	{	Tatta.
				Sijáwal.
				Mirpur Batoro.
Hyderabad	...	...	{	Guni.
				Labdarya.
Shikárpur	...	...	{	Kambar.
				Ratadera.
				Sijáwal.

*Cost of the Survey.*

29. The cost of the Survey for the year was as follows :—

	Rs.
Sind Survey charges	2,00,288
Share of expenditure on paid labourers chargeable Government	52,240
Total Cost Rs.	2,52,528

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

	Rs.
Sanctioned Grant	2,02,202
Deduct Sind Survey charges	2,00,288
Saving Rs.	1,914

31. The unadjusted balance at the commencement of the year was Rs. 3,25,104-5-8. Bills for Rs. 2,21,440-7-9, were sent in during the course of the year, and at the close the balance against this Department, including

the advances received during the year (Rupees 1,79,141-5-5) stood at Rs. 2,82,805-3-4.

32. Since the close of the year bills for Rs. 44,767-11-10 have been sent in for adjustment, and I hope during the next few months to be able to send in bills for Rs. 36,921-7-4 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 Tálukas still in progress and for them the accounts cannot be made out until the whole of the measurement, &c., is completed and the Tálukas ready for settlement.

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

				1881-82. °			1882-83.			
				Rs.	a.	p.	Rs.	a.	p.	
Measurement	...	...	...	...	0	2	7	0	2	3
Classification	...	...	...	...	0	0	11	0	0	7
				<hr/>			<hr/>			
Both operations...	...	...	...	...	0	3	6	0	2	10
				<hr/>			<hr/>			

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

Divan Vishinsing Mukhtyárkar	of Sakro.
„ Chandasing	„ Shikárpur.
Kazi Abdul Ruf	„ Badin.
Divan Jagatrai	„ Naushahro Abro.
Gulam Kadar, Drakhan	„ Zemindar of Deh Abdul Rahim, Drakhan,
	Naushahro Abro Táluka.

I have the honour to be,

Sir,

Your most obedient Servant,

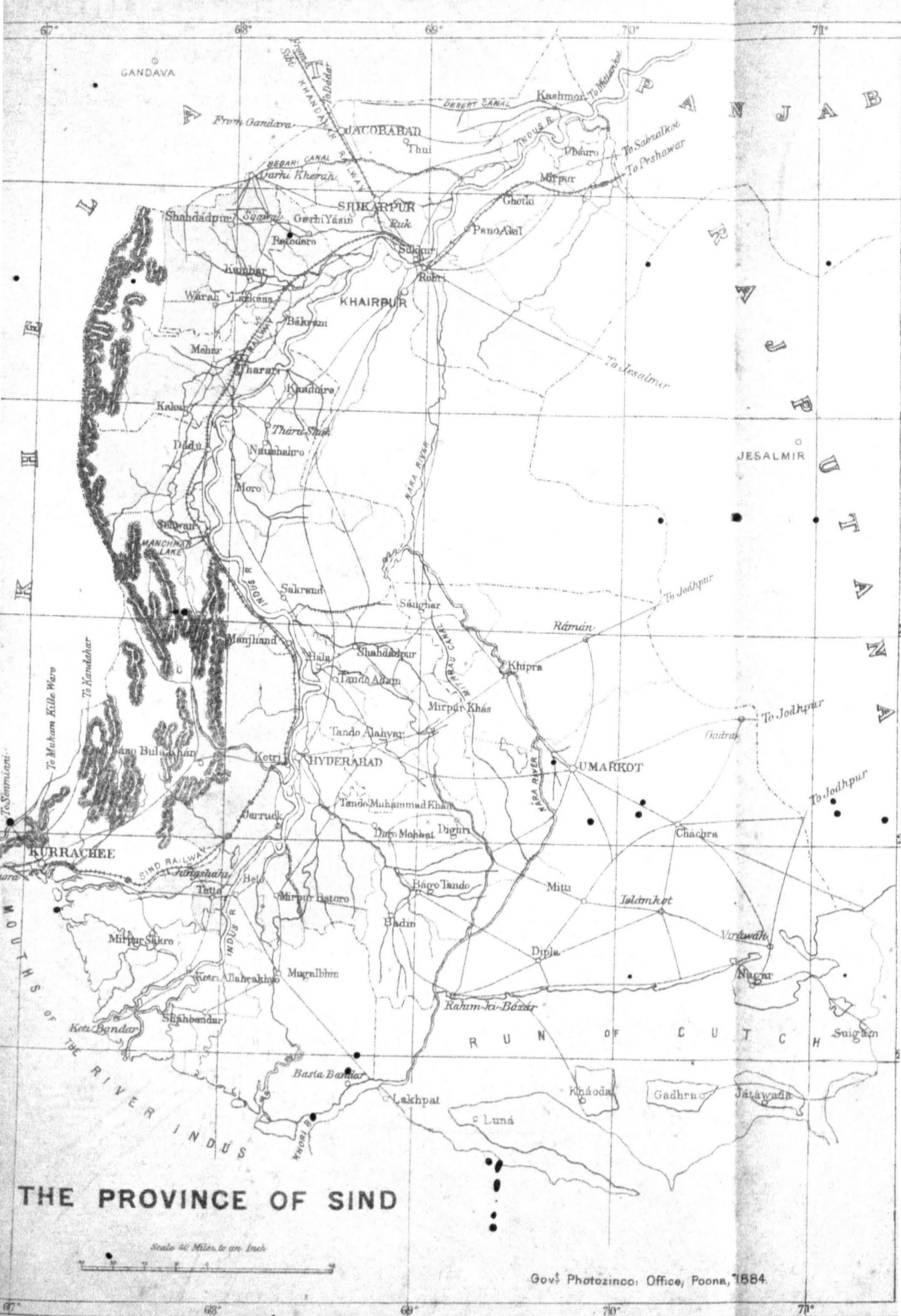
J. W. M. ANDERSON, LIEUT.-COLONEL,

Superintendent, Sind Revenue Survey.

P.S.—Two Sketch Maps are hereto attached—one showing the lands brought under Revision and Temporary Settlements up to date, the other showing the land measured but not yet brought under settlement.



Map showing Talukas under Revision and under Temporary Settlement up to 31<sup>st</sup> October 1883.



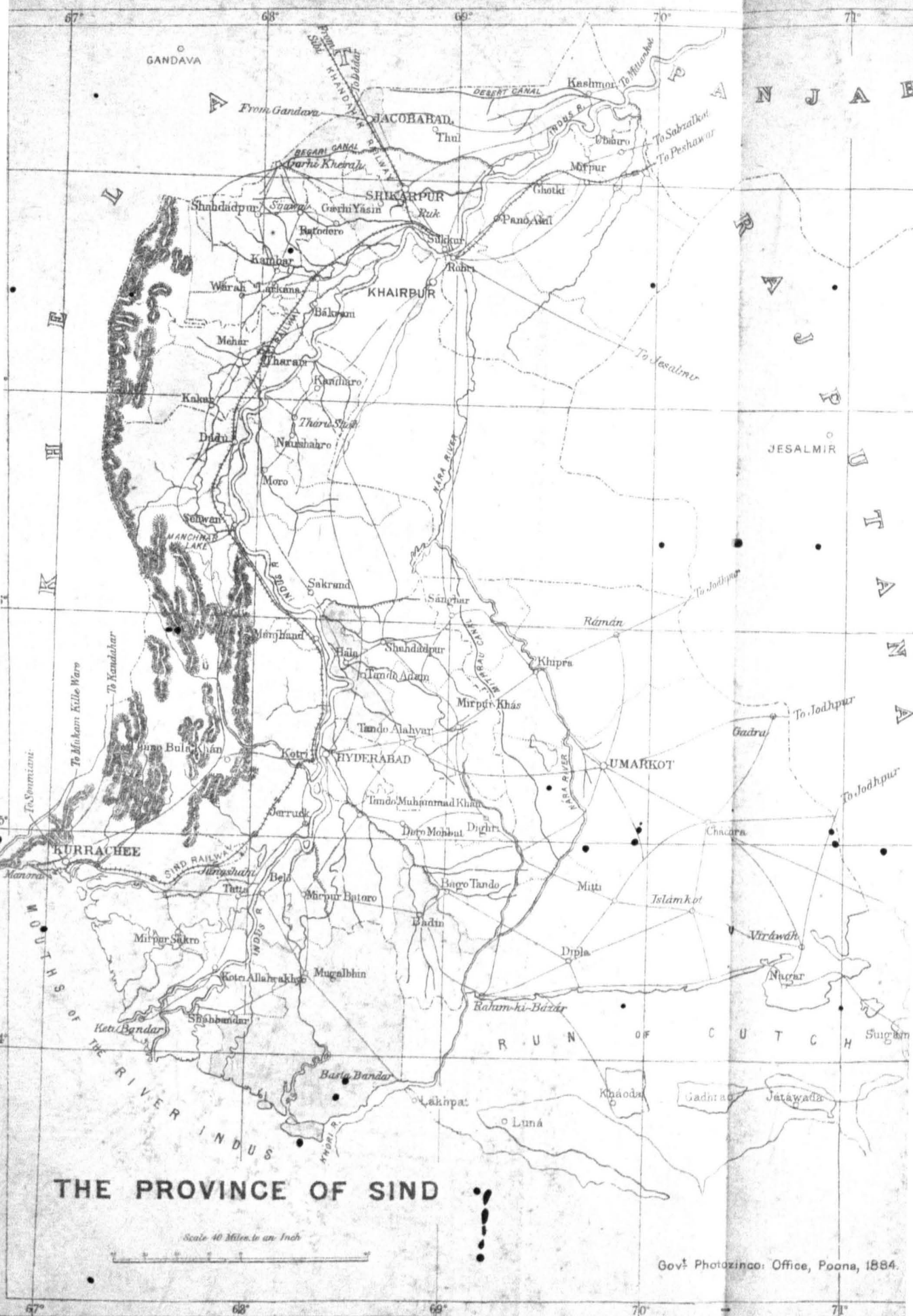
THE PROVINCE OF SIND

Scale 40 Miles to an Inch

Govt Photoduplication Office, Poona, 1884.

Talukas under Revision Settlement

Map showing progress of Settlement and of Measurement up to 31<sup>st</sup> October 1883



Talukas under Settlement.  
 Portions of Talukas measured but not yet brought under Settlement.

---

STATEMENT No. I.

---



## Measurement Progress Statement for the year ending the 31st October 1883, for the Sind Revenue Survey Department.

Distinguishing Letter of Establishment.	PERCENTAGE OF THE WHOLE YEAR FROM WHICH EACH ESTABLISHMENT WAS EMPLOYED.			PERCENTAGE DISTRIBUTION OF THE WORKING DAYS OF THE SEASON, NAMELY, THE TIME ENTERED IN COLUMN 2 EXCLUSIVE OF SUNDAYS.										Average number of Measurers employed during the Working Season.	Names of Officers who superintended the Native Establishment.	Names of Talukas or other Divisions in which the Establishments were employed.	MEASURE	
	In the Districts.	At Head-quarters.	Total.	Field Work.			No Field Work owing to						Total.				Villages.	Fields.
				Ordinary Measurement.	Inspecting field boundary marks.	Measurement of boundary disputes, testing, &c.	Sickness.	Villages not co-operating.	Rain.	Moving from one village to another.	In-door work, to complete accounts, maps, &c.	Idle days, leave, native holidays, &c.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	56	44	100	48	15	27	..	..	..	5	..	5	100	182	Mr. D. G. Gilbert Cooper.	Shikarpur.. Hala .. Hyderabad ..	36 3 22	3,221 908 4,690
																Total ..	61	8,819
B	55	45	100	62	7	18	..	..	..	9	1	3	100	201	Mr. G. F. Mathieson ..	Shikarpur.. Badin ..	33 17	6,535 2,374
																Total ..	50	8,909
C	57	43	100	51	14	17	..	..	..	13	1	4	100	171	Mr. W. D. Wilkins ..	Naushahro Abro .. Shahbandar .. Jati ..	27 20 26	4,731 1,958 708
																Total ..	73	7,397
D	55	45	100	55	12	20	..	..	..	10	..	3	100	21	Mr. W. A. Boulton ..	Jacobabad .. Thul .. Mirpur Sakro ..	30 15 36	4,099 2,153 3,649
																Total ..	81	9,901
E	66	34	100	35	2	48	2	..	..	7	4	2	100	114	Mr. W. J. Wilkins ..	Sijawal (Shikarpur) Sijawal (Karachi) Mirpur Batoro ..	47 59 54	1,310 2,199 2,278
																Total ..	169	5,787
F	60	31	100	14	58	16	2	..	..	3	5	2	100	113	Mr. J. F. Nash ..	Guni ..	1	3,484
																Total ..	1	3,484
G	56	44	100	60	10	12	3	1	..	10	1	3	100	183	Mr. G. Berrie ..	Naushahro Abro .. Badin ..	32 20	7,648 3,385
																Total ..	58	11,033
H	55	45	100	57	12	15	1	1	..	9	..	5	100	20	Mr. W. S. Cole ..	Jacobabad.. Shikarpur.. Sehwan .. Shahbandar .. Jati ..	40 14 1 22 4	6,702 1,549 141 1,208 42
																Total ..	81	9,732
I	57	43	100	60	11	17	1	..	..	6	1	4	100	213	Mr. P. Ross ..	Guni .. Badin ..	21 71	766 9,551
																Total ..	92	10,317
K	55	45	100	57	10	11	1	..	..	6	2	4	100	203	Mr. L. W. Seymour ..	Naushahro Abro.. Hala .. Hyderabad ..	22 3 14	5,504 1,010 3,386
																Total ..	39	9,960
																Grand Total ..	693	85,330

I.

under the Superintendence of Lieut.-Colonel J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.

MENTS EXECUTED BY EACH ESTABLISHMENT.				NUMBER OF VILLAGES, FIELDS AND ACRES SUBMITTED TO TEST.										Average cost of the whole operation per Acre.	REMARKS.
Trapezia and Triangles "Waslas."	Arable Acres.	Undivided arable and unarable Acres.	Total Acres.	Villages.	By European Officers.			By Native Testers.			Total.				
					Fields.	Acres.	Average difference between original measurement and test per cent.	Fields.	Acres.	Average difference between original measurement and test per cent.	Fields.	Acres.	Average difference between original measurement and test per cent.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
							A. g.						A. g.	Rs. a. p.	
20,128	14,702	124,937	139,639	34	227	991	0 15	..	..	..	227	991	0 15	..	
4,962	5,724	1,755	7,479	3	62	428	0 16	..	..	..	62	428	0 16	..	
31,567	35,434	22,104	57,538	22	266	1,500	0 10	..	..	..	266	1,500	0 10	..	
56,657	55,860	148,790	204,656	59	545	2,919	0 12	..	..	..	545	2,919	0 12	0 1 8	
49,474	34,777	62,841	97,618	28	406	2,083	0 18	..	..	..	406	2,083	0 18	..	
25,579	10,924	39,831	49,855	17	138	547	0 20	..	..	..	138	547	0 20	..	
75,053	44,801	102,672	147,473	45	544	2,630	0 18	..	..	..	544	2,630	0 18	0 2 9	
36,365	23,523	26,353	49,876	18	354	2,189	0 19	..	..	..	354	2,189	0 19	..	
20,750	8,409	38,101	46,570	15	166	877	0 18	..	..	..	166	877	0 18	..	
6,254	3,514	51,948	55,462	16	57	300	0 23	..	..	..	57	300	0 23	..	
63,399	35,506	116,402	151,908	49	577	3,366	0 19	..	..	..	577	3,366	0 19	0 2 3	
30,970	25,390	55,471	80,861	28	293	2,072	0 23	..	..	..	293	2,072	0 23	..	
13,056	15,393	26,592	41,985	13	133	1,035	0 21	..	..	..	133	1,035	0 21	..	
31,986	16,604	101,174	117,778	36	259	1,137	0 14	..	..	..	259	1,137	0 14	..	
76,012	57,387	183,237	240,624	77	685	4,244	0 20	..	..	..	685	4,244	0 20	0 1 10	
7,080	7,957	..	7,957	24	..	..	..	152	875	0 14	152	875	0 14	..	
13,679	7,927	..	7,927	33	..	..	..	245	1,009	0 16	245	1,009	0 16	..	
13,932	8,351	..	8,351	30	..	..	..	233	1,036	0 26	233	1,036	0 26	..	
35,300	24,235	..	24,235	87	..	..	..	700	2,920	0 19	700	2,920	0 19	0 6 7	
1,414	17,600	1,099	18,699	1	..	..	..	259	1,415	0 29	259	1,415	0 29	..	
21,414	17,600	1,099	18,699	1	..	..	..	259	1,415	0 29	259	1,415	0 29	0 5 7	
53,391	30,842	39,978	70,809	31	578	3,423	0 21	..	..	..	578	3,423	0 21	..	
24,798	10,987	65,650	76,637	15	195	1,055	0 17	..	..	..	195	1,055	0 17	..	
78,189	41,829	105,098	147,437	46	773	4,478	0 20	..	..	..	773	4,478	0 20	0 2 7	
37,561	47,201	61,877	129,078	34	484	3,616	0 19	..	..	..	484	3,616	0 19	..	
9,807	10,755	37,482	48,237	13	113	819	0 18	..	..	..	113	819	0 18	..	
785	504	760	1,264	..	..	..	..	..	..	..	..	..	..	..	
7,480	8,515	55,786	64,311	19	107	729	0 30	..	..	..	107	729	0 30	..	
326	228	19,166	19,394	2	14	69	1 6	..	..	..	14	69	1 6	..	
55,959	67,203	195,981	262,284	68	718	5,233	0 20	..	..	..	718	5,233	0 20	0 1 4	
5,260	5,087	69,306	74,593	11	64	464	0 14	..	..	..	64	464	0 14	..	
93,753	46,565	33,590	130,155	65	768	3,843	0 15	..	..	..	768	3,843	0 15	..	
99,022	51,832	153,096	204,748	76	832	4,307	0 17	..	..	..	832	4,307	0 17	0 2 3	
50,118	30,276	27,876	58,152	20	404	2,312	0 21	..	..	..	404	2,312	0 21	..	
5,073	6,791	2,141	8,932	5	83	602	0 32	..	..	..	83	602	0 32	..	
20,919	20,594	23,689	44,283	14	163	1,065	0 22	..	..	..	163	1,065	0 22	..	
76,115	57,661	53,706	111,367	39	650	3,979	0 23	..	..	..	650	3,979	0 23	0 3 7	
637,120	453,734	1,059,607	1,513,431	547	5,324	31,156	0 19	959	4,335	0 24	6,283	35,491	0 21	0 2 3	



*Statement for the Sind Revenue Survey Department, exhibiting the Amount of Discrepancy  
Statement No. 1, as tested during the*

Distinguishing Letter of Establishment.	Name of Officers who superintended the Establishment.	Names of Tálukas measured.	Total Number of Fields tested.	NUMBER OF FIELDS IN WHICH THE DIFFERENCE				
				1 per cent.	2 per cent.	3 per cent.	4 per cent.	5 per cent.
1	2	3	4	5	6	7	8	9
A.	Mr. B. G. Gilbert-Cooper	{ Shikárpur ... Hála ... Hyderabad ...	227 62 256	224 60 253	2 1 2	1 ... ...	... 1 ...	... ... ...
		Total ...	545	537	5	1	1	...
B.	Mr. G. F. Mathieson ...	{ Shikárpur ... Badin ...	406 138	364 114	39 22	3 2	... ...	... ...
		Total ...	544	478	61	5	...	...
C.	Mr. W. D. Wilkins ...	{ Naushahro Abro ... Sháhbandar ... Jati ...	354 166 57	335 159 54	13 5 2	2 2 1	2 ... ...	... ... ...
		Total ...	577	548	20	5	2	...
D.	Mr. W. A. Boulton	{ Jacobabad ... Thul ... Mirpur Sákró ...	293 133 259	248 120 201	35 8 48	5 3 6	4 1 1	1 ... 2
		Total ...	685	569	91	14	6	3
E.	By Native Testers ...	{ Sijáwal (Shikárpur) ... " (Karáchi) ... Mirpur Batoro ...	152 265 283	135 237 240	15 24 41	... 3 1	1 ... ...	... 1 ...
		Total ...	700	612	80	4	1	1
F.	By Native Testers ...	Guni ...	259	188	64	7	...	...
		Total ...	259	188	64	7	...	...
G.	Mr. G. Berrie	{ Naushahro ... Badin ...	578 195	490 172	75 21	6 1	4 1	2 ...
		Total ...	773	662	96	7	5	2
H.	Mr. W. S. Cole	{ Jacobabad ... Shikárpur ... Sehwan ... Sháhbandar ... Jati ...	484 113 ... 107 14	427 106 ... 92 10	47 6 ... 10 2	7 1 ... 3 ...	1 ... ... 1 1	1 ... ... 1 ...
		Total ...	718	635	65	11	2	2
I.	Mr. P. Ross	{ Guni ... Badin ...	64 768	63 691	1 64	... 6	... 2	... 2
		Total ...	832	754	65	6	2	2
K.	Mr. L. W. Seymour ...	{ Naushahro Abro ... Hála ... Hyderabad ...	404 83 163	348 60 147	46 18 11	8 1 ...	... 1 3	... 1 1
		Total ...	650	555	75	9	4	2
		Grand Total ...	6,283	5,538	622	69	23	12



2.

*between the Test and Original Measurements of all the Fields entered in Columns 25 to 33 of year ending the 31st October 1883.*

PER CENT. BETWEEN ORIGINAL AND TEST MEASUREMENT DID NOT EXCEED

6 per cent.	7 per cent.	8 per cent.	9 per cent.	10 per cent.	11 per cent.	12 per cent.	13 per cent.	14 per cent.	15 per cent.	16 per cent.
10	11	12	13	14	15	16	17	18	19	20
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
1	...	...	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
1	...	...	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
...	...	...	1	...	...	...	...	...	...	...
...	...	1	1	...	...	...	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	!	...	...
...	...	...	...	...	...	...	...	...	...	...
...	...	1	...	...	...	...	...	...	...	...
...	...	1	...	...	...	...	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
...	1	...	...	...	1	...	...	...	...	...
1	1	...	...	...	1	...	...	...	...	...
...	...	...	1	...	...	...	...	...	...	...
2	...	...	1	...	...	...	...	...	...	...
2	...	...	1	...	...	...	...	...	...	...
1	...	1	...	...	...	...	...	...	...	...
1	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
2	2	1	...	...	...	...	...	...	...	...
8	3	3	2	1	1	...	1	...	...	...

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

*Field Boundary Mark Statement for the year ending 31st October 1883, for the Measuring Establishments of the Sind Revenue Survey Department,  
under the Superintendence of Lieutenant-Colonel J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.*

Distinguishing Letter of Establishment.	Name of Officer who superintended the Establishment.	Number of Villages of which the Measurement was completed during the year.	NUMBER OF VILLAGES IN WHICH THE FIELD BOUNDARY MARKS			Number of Villages in which a further examination of Boundary Marks was made by Officers in charge of Establishments.	NUMBER OF VILLAGES FOR WHICH BOUNDARY MARKS, RETURNS, AND ACCOUNTS		Explanation of Balances in Columns 6 and 9.
			Were all constructed and examined within one month of completion of measurement.	Were all constructed and examined after three months but before close of year.	Remained incomplete at the close of year.		Were furnished to Superintendent before close of year.	Remained to be furnished to Superintendent at close of year.	
1	2	3	4	5	6	7	8	9	10
A	Mr. B. G. Gilbert-Cooper	61	61	19	...	12	80	.....	Arrears of 19 villages of last year completed this year.
B	Mr. G. F. Mathieson	50	40	10	...	32	50	.....	
C	Mr. W. D. Wilkins	73	73	.....	...	5	73	.....	All work connected with these villages was completed, but as they have already been shown in previous year's work Columns 4 to 9 are left blank.
D	Mr. W. A. Boulton	81	81	.....	...	4	81	.....	
E	Mr. W. J. Wilkins	(159)	.....	.....	...	.....	...	.....	
F	Mr. J. F. Nash	(1)	.....	.....	...	.....	...	.....	
G	Mr. G. Berrie	58	58	.....	...	14	58	.....	2 villages in Columns 6 and 9 were inundated, which prevented their demarcation being completed.
H	Mr. W. S. Cole	81	51	30	...	24	81	.....	
I	Mr. P. Ross	92	87	3	2	8	90	2	
K	Mr. L. W. Seymour	39	39	8	...	39	47	.....	
	Total	535	490	70	2	138	560	2	

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



*Monsoon Office Work Progress Statement for the year ending the 31st October 1883 for the Measuring Establishments of the Sind Revenue Survey Department, under the Superintendence of Lieutenant-Colonel J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.*

Distinguishing Letter of Establishment.	Number of Officer who superintended the Establishment.	Number of Villages of which the Measurement was completed during the year.	NUMBER OF VILLAGES FOR WHICH MONSOON OFFICE WORK WAS COMPLETED AS REGARDS			NUMBER OF VILLAGES FOR WHICH MONSOON OFFICE WORK WAS NOT COMPLETED AS REGARDS			Remarks in Explanation of the Causes owing to which the Papers of all the Villages were not completed.
			Examination and correction of Field Books and Papers prepared in the District.	Village Maps.		Examination and Correction of Field Books and Papers prepared in the District.	Village Maps.		
				Examination and Correction of rough Original.	Preparation of correct fair Copies.		Examination and Correction of rough Original.	Preparation of correct Copies.	
1	2	3	4	5	6	7	8	9	10
A	Mr. B. G. Gilbert-Cooper ...	61	61	61	80	...	...	...	Arrears of 19 villages of last year completed this year.
B	Mr. G. F. Mathieson ...	50	50	50	50	...	...	...	
C	Mr. W. D. Wilkins ...	73	73	73	73	...	...	...	
D	Mr. W. A. Boulton ...	81	81	81	81	...	...	...	
E	Mr. W. J. Wilkins ...	(159)	...	...	...	...	...	...	
F	Mr. J. F. Nash ...	(1)	...	...	...	...	...	...	All work connected with these villages was completed, but as they have already been shown in previous year's work Columns 4 to 9 are left blank.
G	Mr. G. Berrie ...	58	58	58	58	...	...	...	
H	Mr. W. S. Cole ...	81	81	81	81	...	...	...	
I	Mr. P. Ross ...	92	92	92	92	...	...	...	
K	Mr. L. W. Seymour ...	39	39	39	47	...	...	...	
	Total ...	535	535	535	562	...	...	...	Arrears of 8 villages of last year completed this year.

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



*Classification Progress Statement for the year ending the 31st October 1883 for the Sind Revenue Survey Department, under the Superintendence of Lieut.-Colonel  
J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.*

Distinguishing Letter of Establishment.				PERCENTAGE DISTRIBUTION OF THE WORKING DAYS OF THE SEASON, NAMELY, THE TIME ENTERED IN COLUMN 2, EXCLUSIVE OF SUNDAYS.												Names of Officers who Superintended the Establishment.	Names of Talukas under classification in season under Report.	NUMBERS OF VILLAGES, FIELDS, AND ACRES, CLASSIFIED BY EACH ESTABLISHMENT.					NUMBERS OF VILLAGES, FIELDS, AND ACRES SUBMITTED TO TEST.										Average cost of the whole Operation per Acre.	REMARKS.					
PERCENTAGE OF THE WHOLE YEAR FOR WHICH EACH ESTABLISHMENT WAS EMPLOYED.																		Villages.	Fields.	Arable Acres.	Unarable Acres.	Total Acres.	By European Officers.				By Native Testers.				Total.								
In the Districts.	At Head-quarters.	Total.		Field work.	No field work, owing to.	Ordinary classification.	Inspecting Field Boundary Marks.	Measurement of boundary disputes, Testing &c.	Sickness.	Villages not co-operating.	Rain.	Moving from one village to another.	Indoor work, to complete Accounts, Maps, &c.	Idle Days, Leave, Native holidays, &c.	Total.								Classification of Soil.	of Classification Water.	Acres.	Average difference of rate per Field between Original and Test Classification.	Classification of Soil.	of Classification Water.	Acres.	Average difference of Rate per Field between Original and Test Classification.	Field.	Classification of Soil.			of Classification Water.	Acres.	Average difference of Rate per Field between Original and Test Classification.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33			34	35	36	37	38
E.	66	34	100	55	9	21	1				8	2	4	100	131	Mr. W. J. Wilkins.	Sijawal (Shikarpur)	48	13,833	78,386	43,169	1,21,555	48	2,570	16,161							2,570	16,161			Rs. a p			
																	Sijawal (Karachi)	58	11,601	50,237	91,465	1,41,702	58	1,671	12,692							1,671	12,692						
																	Mirpur Batoro	54	15,609	65,594	74,898	1,39,987	54	3,606	17,038							3,606	17,038						
																	Sehwan	18	3,000	16,116	20,057	36,173																	
																	Total	178	44,048	2,10,333	2,20,084	4,39,417	160	7,847	45,891							7,847	45,891				0 0 9		
P.	60	31	100	30	20	40	1				4	2	5	100	141	Mr. J. Nash.	Guni	184	33,739	1,50,261	4,81,575	6,31,836	144	4,378	27,109							4,378	27,109			0 0 6			
																	Mirpur Batoro	1	12	36	242	278	1	4	20							4	20						
																	Total	185	33,801	1,50,297	4,81,817	6,32,114	145	4,382	27,139							4,382	27,139						
																GRAND TOTAL	363	77,849	3,60,630	7,10,901	10,71,531	305	12,229	73,080							12,229	73,080			0 0 7				

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

*Statement of the Sind Revenue Survey Department, exhibiting the Amount of Discrepancy between the Test and Original Classification of all the Fields entered in Columns 24 and 38 of Statement No. 5, as tested during the year ending the 31st October 1883.*

Distinguishing Letter of Establishment.	Name of Officer who superintended the Establishment.	Name of Táluka Classified.	Number of Fields submitted to Test.	NUMBER OF FIELDS IN WHICH THE DIFFERENCE BETWEEN ORIGINAL AND TEST CLASSIFICATION WAS																					
				Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.			
				0 0 0		0 0 1 to 0 0 6		0 0 7 to 0 1 0		0 1 1 to 0 1 6		0 1 7 to 0 2 0		0 2 1 to 0 2 6		0 2 7 to 0 3 0		0 3 1 to 0 3 6		0 3 7 to 0 4 0		0 4 1 to 0 4 6			
				Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.	Soil.	Water.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
E.	Mr. W. G. Wilkins	{ Sijáwal (Shikár- pur) ... Sijáwal (Karáchi) Mirpur Batoro Sehwan ... Total ...	2,570																						
			1,671																						
			3,606																						
			7,847																						
F.	Mr. J. F. Nash	{ Guni ... Mirpur Batoro ... Total ...	4,378																						
			4																						
			4,382																						
Grand Total			12,229																						

*Note.*—The test, being preparatory to Temporary Settlement, was confined to Division of land, examination of record of occupancy, &c.; therefore Columns 5 to 25 are left blank.

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



*Monsoon Office Work Progress Statement for the year ending the 31st October 1883, for the Classing Establishments of the Sind Revenue Survey Department, under the Superintendence of Lieut.-Colonel J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.*

Distinguishing Letter of Establishment.	Name of Officer who superintended Establishment,	Number of Villages of which the Classification was completed during the Year.	NUMBER OF VILLAGES FOR WHICH MONSOON OFFICE WORK WAS COMPLETED.		NUMBER OF VILLAGES FOR WHICH MONSOON OFFICE WORK WAS NOT COMPLETED.		Remarks in explanation of the causes owing to which the Papers of all the Villages were not completed.
			Examination and correction of Field Books and Papers prepared in the Districts.	Field Registers for the Settlement of the Assessment prepared and examined.	Examination and correction of Field Books and Papers prepared in the District.	Field Registers for the Settlement of the Assessment prepared and examined.	
1	2	3	4	5	6	7	8
E....	Mr. W. J. Wilkins	178	178	178	.....	.....	
F....	Mr. J. F. Nash	185	185	185	.....	.....	
	Total	363	363	363	.....	.....	

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

Temp 15991  
Dated 30.12.09



General Statement showing the Progress made in the Preparation and Distribution of Village Maps, from the commencement of the Survey up to the close of the year ending the 31st October 1883, by the Sind Revenue Survey Department, under the Superintendence of Lieut.-Colonel J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.

COLLECTORATE.	NAME OF TALUKA.	NUMBER OF VILLAGES INTO WHICH THE SURVEY SETTLEMENT HAS BEEN INTRODUCED.		NUMBER OF VILLAGES FOR WHICH COPIES OF THE VILLAGE MAPS COPIED BY HAND HAVE BEEN SUPPLIED TO THE LOCAL OFFICER.		NUMBER OF VILLAGES FOR WHICH THE USUAL NUMBER OF COPIES OF THE VILLAGE MAPS HAS BEEN LITHOGRAPHED.		NUMBER OF VILLAGES FOR WHICH MOUNTED COPIES OF THE LITHOGRAPHED MAPS HAVE BEEN FURNISHED TO LOCAL OFFICERS.		NUMBER OF VILLAGES FOR WHICH MAPS REMAIN TO BE				REMARKS.
		Original Settlement.	Revision Settlement.	Original Settlement.	Revision Settlement.	Original Settlement.	Revision Settlement.	Original Settlement.	Revision Settlement.	Original Settlement.	Revision Settlement.	Original Settlement.	Revision Settlement.	
1	2	3		4		5		6		7		8		9
Karachi ...	Kotri ...		14				14		14					
	Sehwan ...		52				52		52					
	Dadu ...		59				59		59					
	Manjhand ...		25				25		25					
	Sijawal ...	Temporary 58				58		58						
	Mirpur Batoro ...	61		62		2		2		59		59		Maps will be supplied as soon as printed
	Tatta ...	44		13		43		43		1		1		Do. do. do.
	Kandiāro ...		59				59		59					
	Naushahro ...		95				95		95					
	Moro ...		61				61		61					
Hyderabad	Sakrand ...		90				90		90					
	Shahdadpur ...		110				110		110					
	Mirpur Khas ...	35				35		35						
	Hala ...	69				69		69						
	Tando Alahyar ...	57				57		57						
	Hyderabad ...	52				52		52						
	Dero Motat ...	62				62		62						
	Gum ...	Temporary 160		138		46		46		98		98		
	Bago ...					88								Do. do. do.
	Badin ...					90								Original Settlement has not been introduced into these Talukas.
Shikarpur	Rohri ...		45				45		45					
	Ghotki ...	98				98		98						
	Mirpur Mathelo ...	81				83		83						
	Ubauro ...	91				91		91						
	Kakar ...		Temporary 53		55									
	Mehar ...		53		53									
	Tigar ...		48		48									
	Larkhana ...		Revision 66				67		67					
	Labdarya (in part) ...		34				34		34					
	Nasirabad ...		Revision 33				51		51					
	Kambar ...		Temporary 18											
	Sijawal ...		Temporary 118		120									
	Ratadera ...		48				48		48					
	Shikarpur (in part) ...		57				57		57					
	Naushahro Abro (in part) ...	27				27		27						
	Sukkur ...	69				69		69						
	Total ...	964	1,207	213	276	970	936	792	936	158		158		

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

*Statement contrasting the Cost of the Sind Revenue Survey Department, under the Superintendence of Lieut.-Colonel J. W. M. ANDERSON for the year ending the 31st October 1883 with that for the preceding year.*

Years.	Pay of Superintendent.		Pay of Assistant and Sub-Assistant Superintendents, inclusive of Supernumeraries.		Pay of Establishment.		Contingent Charges for Stationery Instruments, Dead Stock, &c.		Expenditure on account of Labourers for Measurement and Classification.		Total Expenditure.		REMARKS.
	Rs.	Per cent.	Rs.	Per cent.	Rs.	Per cent.	Rs.	Per cent.	Rs.	Per cent.	Rs.	Per cent.	
1881-82 ...	19,159	8.5	84,000	37.5	76,104	34.0	8,502	3.8	36,382	16.2	2,24,147	100	
1882-83 ...	19,752	7.8	86,251	34.2	87,008	34.5	7,277	2.9	52,240	20.6	2,52,528	100	

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



*General Statement showing the Cost of the Sind Revenue Survey Department, under the Superintendence of Lieut-Colonel J. W. M. ANDERSON, from the commencement of Operations until the close of the year ending 31st October 1883.*

Years.	TOTAL AREA, ARABLE AND UNARABLE.				Cost of both Operations per Acre.	Total Cost of Survey.	REMARKS.
	Measured.		Classified.				
	Acres.	Cost per Acre.	Acres.	Cost per Acre.			
1	2	3	4	5	6	7	8
		Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs.	
Total of previous years from 1862-63 <del>1873-74</del> ...	13,079,541	0 1 6	6,157,597	0 1 6	0 3 0	17,91,269	
1874-75 ...	509,334	0 4 0	226,010	0 0 9	0 4 9	1,48,828	} The cost is inclusive of charges for labourers. The cost is inclusive of charges for labourers and boundary-marks.
1875-76 ...	798,679	0 2 5	394,528	0 0 6	0 2 11	1,41,877	
1876-77 ...	763,470	0 2 1	698,236	0 0 9	0 2 10	1,44,257	
1877-78 ...	371,445	0 5 6	549,967	0 0 5	0 5 11	1,51,867	} The cost is inclusive of charges for labourers.
1878-79 ...	466,716	0 3 6	449,026	0 0 4	0 3 10	1,21,068	
1879-80 ...	515,017	0 3 10	522,775	0 0 11	0 4 9	1,53,833	
1880-81 ...	699,585	0 3 9	214,666	0 2 1	0 5 10	1,89,742	
1881-82 ...	1,171,811	0 2 7	648,691	0 0 11	0 3 6	2,24,147	
1882-83 ...	1,513,431	0 2 3	1,071,531	0 0 7	0 2 10	2,52,528	

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



*General Statement of Progress made in the Survey and Assessment of the several Tálukas of the Karáchi, Hyderabad, and Shikárpur Collectorates, by the Sind Revenue Survey Department, from the commencement of Operations up to the close of the year ending 31st October 1882.*

Collectorates.	Names of Tálukas or other Divisions.	PROGRESS OF SURVEY UP TO		
		Measurement.	Classification.	Assessment.
KARÁCHI.	Kotri ... ..	Revision ... ..	Revision ... ..	Revision.
	Sehwan ... ..	" ... ..	" ... ..	"
	Dádú ... ..	" ... ..	" ... ..	"
	Mánjhand ... ..	" ... ..	" ... ..	"
	Tatta ... ..	" ... ..	Temporary ... ..	Temporary.
	Ghorábári ... ..	Original ... ..	.....	.....
	Sákro ... ..	Revision in hand ... ..	.....	.....
	Sijáwal ... ..	Revision ... ..	Temporary ... ..	Temporary.
	Mirpur Batoro ... ..	" ... ..	" ... ..	"
	Jathi ... ..	" in hand ... ..	.....	.....
HYDERABAD.	Sháhbandar ... ..	" ..	.....	.....
	Kamliáro ... ..	Revision ... ..	Revision ... ..	Revision.
	Naushahro ... ..	" ... ..	" ... ..	"
	Moro ... ..	" ... ..	" ... ..	"
	Sakrand ... ..	" ... ..	" ... ..	"
	Shahdádpur ... ..	" ... ..	" ... ..	"
	Hála ... ..	" ... ..	Original ... ..	Original.
	Mirpur Khás ... ..	Original ... ..	" ... ..	"
	Hyderabad ... ..	Revision in hand ... ..	" ... ..	"
	Tando Alahyar ... ..	Original ... ..	" ... ..	"
	Dero Mohbat ... ..	" ... ..	" ... ..	"
	Gmi ... ..	Revision ... ..	Temporary ... ..	Temporary.
SHIKÁRPUR.	Bágo Tando ... ..	Original ... ..	.....	.....
	Badin ... ..	Revision in hand ... ..	.....	.....
	Sukkur... ..	Revision ... ..	Revision ... ..	Revision.
	Kakar ... ..	" ... ..	Temporary ... ..	Temporary.
	Mehar ... ..	" ... ..	" ... ..	"
	Tigar ... ..	" ... ..	Revision ... ..	"
	Nasirabad ... ..	" ... ..	" ... ..	$\frac{1}{2}$ Revision $\frac{1}{2}$ Temporary.
	Kambar ... ..	" ... ..	Temporary ... ..	Temporary.
	Lárkhána ... ..	" ... ..	Revision ... ..	Revision.
	Labdarya ... ..	" ... ..	" ... ..	Temporary.
	Rato-dero ... ..	" ... ..	Temporary ... ..	"
	Sijáwal... ..	" ... ..	" ... ..	"
	Naushahro Abro ... ..	" ... ..	Original ... ..	Original $\frac{3}{4}$ rds.
	Shikárpur ... ..	" ... ..	" ... ..	$\frac{2}{3}$ ths.
FRONTIER DISTRICTS.	Rohri ... ..	" ... ..	Revision ... ..	Revision.
	Ghotki ... ..	Original ... ..	Original ... ..	Original.
	Mirpur Mathelo ... ..	" ... ..	" ... ..	"
	Ubauro... ..	" ... ..	" ... ..	"
THAR AND PARKAR.	Jacobabad ... ..	Revision ... ..	.....	.....
	Thul ... ..	" in hand ... ..	.....	.....
	Kashmor ... ..	Original ... ..	.....	.....
	Sángbar ... ..	Original ... ..	.....	.....
	Khipra... ..	" ... ..	.....	.....
	Umarkot ... ..	" ... ..	.....	.....
	Cháchra ... ..	.....	.....	.....
	Mitti ... ..	.....	.....	.....
	Dipla ... ..	.....	.....	.....
	Nagar ... ..	.....	.....	.....

Balance Sheet showing the Amount and Particulars of Unadjusted Advances as the same stood on the 31st October 1883 for the Sind Revenue Survey Department, under the Superintendence of Lieut.-Colonel J. W. M. ANDERSON, Superintendent, Sind Revenue Survey.

Unadjusted Advances and Receipts.	Account.	BALANCE		REMARKS.
		Remaining at Debit.	Remaining at Credit.	
		Rs. a. p.	Rs. a. p.	
	Collector of Karachi ... ..	80,853 4 6	.....	
	Do. of Hyderabad ... ..	1,22,880 11 11	.....	
	Do. of Shikarpur ... ..	79,071 2 11	.....	
	Miscellaneous Sources ... ..	.....	.....	
	Total ...	2,82,805 3 4	.....	
Distribution of Unadjusted Advances and Receipts.	Expended on measurement and classification of the Guni Taluka...	23,501 9 3	.....	Of these amounts bills for Rs. 13,667-1-2 have since been sent in: bills for balance will be submitted shortly.
	Do. on boundary marks in do. ...	7,739 0 0	.....	
	Do. on measurement and classification of the Mirpur Batoro Taluka...	10,571 9 8	.....	Of these amounts bills for Rs. 1,100-10-8 have since been sent in: bills for the balance will be submitted shortly.
	Do. on boundary marks in do. ...	4,062 0 5	.....	
	Do. on measurement and classification of the Sijawal Taluka of the Shikarpur Collectorate ...	8,175 12 0	.....	Bills for these amounts will be submitted shortly.
	Do. on boundary marks in do. ...	8,434 5 7	.....	
	Do. on measurement and classification of the Sehwan Taluka...	1,709 12 10	.....	Bills for these amounts cannot be submitted until temporary or revised settlement is introduced into this Taluka.
	Do. on boundary marks in do. ...	4,792 14 5	.....	
	Do. on measurement and classification of the Sijawal Taluka of the Karachi Collectorate.	8,901 11 5	Do.	
	Do. on boundary marks in do. ...	3,800 7 7	.....	
	Do. on measurement of the Hala Taluka ...	12,072 13 7	.....	
	Do. on boundary marks in do. ...	28,587 6 0	.....	
	Do. on measurement of the Badin Taluka...	12,046 0 11	.....	
	Do. on boundary marks in do. ...	12,215 4 1	.....	
	Do. on measurement of the Hyderabad Taluka ...	5,841 15 5	.....	
	Do. on boundary marks in do. ...	10,788 10 9	.....	
	Do. on measurement of the Jati Taluka ...	5,660 6 6	.....	
	Do. on boundary marks in do. ...	4,020 11 10	.....	
	Do. on measurement of the Ghorabari Taluka ...	1,093 2 4	.....	
	Do. on boundary marks in do. ...	657 13 0	.....	
	Do. on measurement of the Shahbandar Taluka ...	2,976 0 5	.....	
	Do. on boundary marks in do. ...	1,167 5 1	.....	
	Do. on measurement of the Sakro Taluka ...	2,910 2 9	.....	
	Do. on boundary marks in do. ...	3,355 5 4	.....	
	Do. on measurement of the Jacobabad Taluka ...	8,838 10 6	.....	
	Do. on boundary marks in do. ...	19,764 7 1	.....	
	Do. on measurement of the Shikarpur Taluka ...	10,009 9 11	.....	
	Do. on boundary marks in do. ...	9,412 7 6	.....	
	Do. on measurement of the Naushahro Abro Taluka...	11,556 9 3	.....	
	Do. on boundary marks in do. ...	10,832 5 1	.....	
	Do. on measurement of the Thul Taluka ...	1,367 10 1	.....	
	Do. on boundary marks in do. ...	1,631 6 2	.....	
	Value of stones in the charge of the Mukhtyarkar of Umarkot ... ..	2,500 0 0	.....	
	Advanced to Contractor for stones in the Bago Tando Taluka ...	6,500 0 0	.....	
	Do. do. do. Mirpur Khas Taluka ...	4,000 0 0	.....	
	Do. do. do. Tando Allahyar Taluka ...	6,600 0 0	.....	
	Do. do. do. Dero Mohabbat Taluka ...	2,000 0 0	.....	
	Value of stones in the charge of the Mukhtyarkar of Shahdaspur ...	36 0 0	.....	Bills for these amounts will be submitted as soon as these stones are used.
	Do. do. do. do. of Kakar ...	587 5 6	.....	
	Cash in hand with Assistants ... ..	1,978 4 9	.....	
	Do. in District Treasuries ... ..	.....	.....	
	Do. in hand with Superintendent... ..	108 2 4	.....	
	Total ...	2,82,805 3 4	.....	

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



## STATEMENT No. 13.

*Statement showing the Names, Salary, Cause of Dismissal, &c., of Members of the Sind Revenue Survey Establishment removed during the year ending 31st October 1883.*

Names.	Amount of Salary.	Cause of Dismissal.
	Rs. a. p.	
Bhojraj, son of Ladhomal, Classifier ... ..	20 0 0	His services were dispensed with on account of his absenting himself from his work without leave and without reporting absence and committing gross irregularities in the performance of his duties.
<del>Muhamad Bachal, son of Muto, Measurer ... ..</del>	12 0 0	Services dispensed with on account of repeated errors in his work which occurred to such an extent as to render that turned out by him perfectly untrustworthy.
<del>Menghraj, son of Dharamdas, Learner ... ..</del>	8 0 0	Services dispensed with on account of his forwarding false returns of work and being generally unlikely to turn out an efficient Measurer.
Tahalmal, son of Udharām, Learner ... ..	8 0 0	Services dispensed with as he failed to pass Departmental Examination.
Pohumal, son of Udhandas, Learner ... ..	6 0 0	His services were dispensed with on account of bad health rendering him unfit for duty in the field.
Jhamatmal, son of Nawalrai, Learner ... ..	6 0 0	Services dispensed with as he failed to pass Departmental Examination.
Yakub, son of Acher, Learner...	6 0 0	<del>Services dispensed with as unlikely to turn out an efficient Measurer.</del>

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



## STATEMENT No. 14.

*Comparative Statement showing the Revenue Collections prior to the Settlement, and that realized in the year 1883, in the undermentioned Tálukas of the Karachi, Hyderabad and Shikárpur Collectorates.*

Collectorate.	Names of Tálukas.	Revenue Collections prior to Settlement.	Revenue Realizations under Settlement in the year 1883-84.
<p>The figures for this Return have not yet been received from Collectors. A Supplement-</p>	<p>ary Return will be submitted on their receipt.</p>		
	Grand Total ...		

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

No. 158 OF 1884.

FROM

LIEUT.-COLONEL J. W. M. ANDERSON,  
Superintendent, Sind Revenue Survey;

To

THE COMMISSIONER IN SIND.

*Superintendent's Office,  
Camp Kamangar, 16th February 1884.*

SIR,

I have the honour to forward the accompanying supplementary statement showing the revenue realized in the year 1882-83 in each of the settled talukás of the Karáchi, Hyderabad and Shikárpur Collectorates, in continuation of the remark entered in Statement No. 14 which accompanied the Annual Progress Report of this Survey No. 1175 of 31st December last.

I have the honour to be,

Sir,

Your most obedient Servant,

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

---

No. 807 OF 1884.

REVENUE DEPARTMENT.

*Commissioner's Office,  
Karáchi, 29th February 1884.*

Submitted to Government in continuation of Commissioner's letter No. 290, dated 22nd January 1884.

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



## SUPPLEMENTARY.

## STATEMENT No. 14.

*Comparative Statement showing the Revenue Collections prior to the Settlement, and that realized in the year 1882-83 in the undermentioned Tálukás of the Karáchi, Hyderabad and Shikárpur Collectorates.*

Collectorate.	Names of Tálukás.			Revenue Collec- tions prior to Settlement.	Revenue Realiza- tions under Settlement in the year 1882-83.
				Rs.	Rs.
Karáchi	{	Dádú ...	... R	58,212	1,47,194
		Sehwan ...	... R	1,03,760	1,45,778
		Mánjhand ...	... R	34,780	43,561
		Kotri ...	... R	10,704	24,094
		Tatta ...	... T	48,473	49,425
	Total ...			2,55,929	4,10,052
Hyderabad	{	Kandiáro ...	... R	91,697	1,20,735
		Naushahro ...	... R	1,25,204	1,85,757
		Moro ...	... R	64,022	93,235
		Sakrand ...	... R	57,647	85,807
		Hála ...	... O	70,962	85,714
		Shahdádpur ...	... R	79,707	1,22,951
		Tando Alahyar ...	... O	84,556	84,957
		Mirpur Khás ...	... O	34,130	47,485
		Hyderabad ...	... O	62,141	81,205
		Dero Mohbat ...	... O	48,156	54,782
Total ...			7,18,222	9,62,628	
Shikárpur	{	Kakar ...	... T	1,16,838	1,71,769
		Mehar ...	... T	1,03,272	1,46,388
		Nasirabad ...	... O	1,05,749	1,14,909
		Tigar ...	... T	89,715	99,919
		Lárxhána ...	... R	2,18,315	3,52,376
		Labdarya ...	... T	82,316	1,23,565
		Kambar ...	... T	2,07,481	3,84,082
		Sijáwal ...	... O	46,461	48,949
		Rato-dero ...	... T	69,009	1,33,197
		Shikárpur ...	... O	28,825	91,840
		Naushahro Abro ...	... O	75,520	1,31,646
		Rohri ...	... R	62,933	99,025
		Ghotki ...	... O	1,37,476	1,29,315
		Mirpur ...	... O	77,040	82,372
		Ubauro ...	... O	58,455	61,360
		Sukkur ...	... R	67,386	98,448
Total ...			15,46,791	22,19,110	
Grand Total ...			25,20,942	35,91,790	

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