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*The Annual Progress Report of the Sind Revenue Survey and Settlement Department for 1881-82.*

No. 25

REVENUE DEPARTMENT.

Bombay Castle, 30th March 1883.

Letter from the Commissioner in Sind, No. 226, dated 16th January 1883—Submitting with his remarks the Annual Progress Report (No. 1134 of 1882) of the Superintendent, Sind Revenue Survey, for the year 1881-82.

RESOLUTION.—During the year under review there were ten establishments at work, while in the previous year the number was only nine. There was an increase of twenty-seven in the average number of measurers, and an increase of four in the average number of classers employed. Measurements were carried on in seven talukás with a view to original settlement and in four with a view to revision settlement, the measurement of six talukás being completed in the course of the year. Measurers attached to the classing establishments were engaged in subdividing survey numbers which are too large for the present system. Classification was carried on in four talukás. Although the field season was shorter than the previous one, the average number of days spent in the field by both measuring and classing establishments was greater.

2. There was an increase of no less than 4,72,226 acres in the area measured in the year under review as compared with that measured in the previous year. The arable land measured rose from 3,37,931 acres in 1880-81 to 4,04,336 acres in 1881-82, and the undivided land from 3,61,654 to 7,67,475 acres. As many of the new measurers however are young, there was a slight decrease in the average area measured per man. The tests of measurement taken by the Assistants were sufficient, and the highest average error discovered was 24 gunthás. The Governor in Council concurs with Lieutenant-Colonel Anderson in considering the average size of the fields (6 acres) too large.

3. The area of arable land classed rose from 69,291 acres in 1880-81 to 3,06,006 acres in 1881-82, and the area of undivided land from 1,15,375 to 3,42,685 acres. But Lieutenant-Colonel Anderson admits that the comparison is not a fair one, because there is a great difference between the classification for temporary and that for revision settlements, and only a small proportion of the classification done in the year under review was for the purpose of regular settlements. The test taken of the classification was also large, and the average error discovered was only 0.38 pie in soil and 1.37 pie in water.

4. The average cost of measurement per acre fell from Re. 0-3-9 in 1880-81 to Re. 0-2-7 in 1881-82, and the average cost of classification from Re. 0-2-1 to Re. 0-0-11. But for the reason above stated the latter comparison is without explanation misleading.

5. Revised settlements were introduced into two talukás in the year under review, the provisional settlement of two talukás was confirmed, and temporary settlements for four talukás were sanctioned. In the thirty talukás which have been settled the revenue of the year under review exceeds the collections prior to the settlement by Rs. 9,90,478 and the revision settlement of those which are under original settlements will result in a further increase of revenue. There appears to be a slight inconsistency in the statements of the Commissioner in Sind regarding the probable results of revision and of temporary settlements, but the concurrence of Government in the view that temporary settlements are better adapted than regular settlements to existing circumstances in many parts of the province of Sind has been on several occasions expressed.

6. The expenditure of the year under review (Rs. 2,24,147) exceeded that of the previous year by Rs. 34,405. The causes of the increase are not stated, but the principal reason was no doubt the increase of establishment. There appears however to have been an increase under all heads, but the fixed charges were less by Rs. 7,088 than the sanctioned grant. It is to be regretted that the unadjusted balance (Rs. 3,25,104) which appears to be on account of boundary marks, was not materially less than that at the close of the preceding year, but the Superintendent is doing all in his power to reduce it.

7. His Excellency in Council concurs with the Commissioner in Sind in considering that the results of the working of the Department during the year under review are satisfactory and indicate the efficiency of Lieutenant-Colonel Anderson's supervision.

J. MONTEATH,

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 Secretariat,  
Irrigation.

} With copies of the papers.

The Government of India,  
The Secretary of State for India. } By letter.

No. 226 OF 1883.

REVENUE DEPARTMENT.

FROM

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

TO

HIS EXCELLENCY THE RIGHT HONOURABLE  
SIR JAMES FERGUSSON, BART., K.C.M.G. AND C.I.E.,  
GOVERNOR AND PRESIDENT IN COUNCIL, BOMBAY.  
*Commissioner's Office, Camp Karampur,  
16th January 1883.*

RIGHT HONOURABLE SIR,

I have the honour to submit the Annual Progress Report of the Superintendent, Sind Revenue Survey, for the year 1881-82.

2. The department during the year has been under Lieutenant-Colonel J. W. M. Anderson, and the results reported are, I am glad to state, satisfactory.

3. During the season ten establishments were in the field against nine in the previous year, and measurements were carried on in eleven talukás, the measurements in six talukás being completed during the year. These measurements were with a view to original settlement in seven talukás, and with a view to revision settlement in four.

4. The Superintendent in his 6th paragraph has shown details of the work done by each of the establishments during the year. From this it appears that 1,171,811 acres were measured during the year as compared with 699,585 in the previous year; and though, owing to the large number of young measurers, there is a small decrease as compared with the previous year in the average rate of measurement, I agree with Lieutenant-Colonel Anderson in considering that the amount of work got through is highly creditable.

5. In his 8th paragraph Lieutenant-Colonel Anderson has shown the test taken by each Assistant of the measurements, and also the number of fields tested by native testers, and the results recorded are satisfactory "both as regards the amount of test taken and in the result."

6. The working season in the field was somewhat shorter than in the previous year, the different establishments having gone into camp on the 1st November and closed work as a rule on the 15th May. Experience has shown, as I explained in my last year's report, that this is late enough to keep out establishments in Sind. The health of both officers and men during the year was, it is satisfactory to note, good.

7. There were two establishments employed in classing lands during the year, and the amount of work performed by them was satisfactory; but for the reason given by the Superintendent in his 18th paragraph it is hardly possible to compare the outturn of work with that of the previous year. Full details regarding the work done are given in paragraphs 19 to 21.

8. During the recess all recess work was completed.

9. The amount of settlement work completed during the year is given in detail in paragraphs 25, 26 and 27, and it seems needless to repeat those details; but the progress made has been good, and the more I see of the working of the settlement, the more satisfied I become of the wisdom of the course now being followed of introducing temporary settlements for a few years before any attempt is made to introduce a regular settlement with its less elastic system.



10. The cost per acre of survey operations for the year has been very low,—only 3 annas 6 pies,—as compared with 5 annas 10 pies in the previous year.

11. The general results of the year's operations as compared with those of the previous year are as follows :—

Year.	GENERAL AREA, RETURN OF.			Expenditure.	Combined Cost per Acre.
	Measurement.	Classification.	Settlement Acres.		
1881-82...	1,171,811	648,691	105,832	Rs. 2,24,147	A. p. 3 6 Without settle- ment.
1880-81...	699,585	214,666	N.B.—Temporary settlement rates not included.	1,89,742	1 10 With settle- ment. 5 10

12. The following statement shows the result of the work of the year in Sind :—

Táluka.	Amount of Settlement Jama fixed on Cultivated Lands.	Average of past Collections.	INCREASE.	
			Rs.	Percentage.
	Rs.	Rs.		
Kambar ...	2,73,012	1,83,618	89,394	48·6
Rato-dero ...	1,01,499	73,752	27,747	37·6
Tatta ...	50,000	40,482	9,518	23·5
Total ...	4,24,511	2,97,852	1,26,659	42·5

13. The above shows an increase of assessment of Rs. 1,26,659, or 42·5 per cent. on past collections, a large increase due to improvement in canals and protective embankments, and to improved communications, especially the Indus Valley State Railway.

14. From Statement No. 14, appended to the Superintendent's report, it appears that the revenue collections in the thirty tálukás in which settlement operations have been carried on prior to settlement were Rs. 24,36,051, while the revenue realizations under the settlement in the past year were Rs. 34,26,529, showing an increase in revenue amounting to Rs. 9,90,478. As the revised settlement, which gives the best results, has not yet been introduced into eighteen of the tálukás, it is evident that as the settlement progresses a very large increase in revenue may be looked for, provided, that is, the canal and protective embankments are kept in good order. The so-called temporary settlements are likely in my opinion to give equally good results with the revised settlements, and these settlements should be continued in several parts of Sind for a good many years to come as better suited to the circumstances of the tálukás and as less likely to press hardly on the old lease-holders than the revised settlement system might, if at once introduced. Under the temporary settlement system only actual cultivation is considered when assessing lands—a system under certain restrictions better suited to the tastes and habits of the people of Sind than the more elaborate system of fallows in force where the revised settlement system has been introduced.

I have the honour to be,

Right Honourable Sir,

Your most obedient Servant,

H. N. B. ERSKINE,

Commissioner in Sind.



No. 1134 of 1882.

## REVENUE DEPARTMENT.

FROM

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

TO

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

*Superintendent's Office,  
Camp Jacobabad, 28th December 1882.*

SIR,

I have the honour to submit the Annual Progress Report of the Sind Revenue Survey and Settlement Department for the year 1881-82.

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

Mr. L. W. Seymour was appointed to settle camel claims and was absent on this special duty from the 2nd November 1881 to the 14th May 1882.

Mr. C. F. Erskine was promoted to Assistant Superintendent on the 27th December 1881.

Mr. C. E. Biddulph rejoined from three months' Afghan leave on the 28th November 1881.

Mr. C. E. Biddulph was absent on leave without pay from the 30th May to the 17th July 1882.

Mr. C. E. Biddulph was absent on examination leave to the Presidency from the 27th September to the 6th October, 1882.

Mr. L. W. Seymour was absent on privilege leave from the 16th September to the 25th October 1882.

3. At the close of the year 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 ...	11	...	11
Acting Assistant Superintendent ...	1	...	1
Total ...	14	...	14

*Measurement.*

4. Measurements, with a view to original settlement, were carried on in the following talukás :—

Mirpur Batoro*	...	...	} Karáchi Collectorate.
Sijawal*	...	...	
Tatta*	...	...	
Jati	...	...	
Sehwan	...	...	} Hyderabad Collectorate.
Guni	...	...	
Jacobabad	...	...	
			Upper Sind Frontier District.

5. Measurements, with a view to revision settlement, were carried on in talukás as follows :—

Hála ...	...	...	...	Hyderabad Collectorate.
Kambar* ...	...	...	...	} Shikárpur Collectorate.
Rato-dero* ...	...	...	...	
Sijáwal* ...	...	...	...	

In the talukás marked (\*) the measurements were completed.

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

Establishment.	Superintending Officers.	Average No. of Measurers.	MEASUREMENT.					
			No. of Villages.	Survey Nos.	No. of Waslas.	Arable Acres.	Undivided land—Acres.	Total Acres.
1	2	3	4	5	6	7	8	9
A.	Mr. B. G. Gilbert-Cooper ...	17	47	8,819	55,940	65,325	57,254	122,579
B.	Mr. G. F. Mathieson ...	20	65	8,073	80,648	46,956	168,079	215,035
C.	Mr. W. D. Wilkins ...	16½	53	7,237	62,965	47,455	91,537	138,992
D.	Mr. W. A. Boulton ...	18½	67	6,384	54,703	44,132	162,543	206,675
E.	Mr. W. J. Wilkins ...	7	99	893	6,242	3,495	...	3,495
F.	Mr. J. F. Nash ...	15	118	1,716	15,356	4,861	722	5,583
G.	Mr. G. Berrie ...	18	42	8,363	77,120	46,327	57,505	103,832
H.	Mr. W. S. Cole ...	16	32	6,413	39,895	35,026	74,396	109,422
I.	Mr. P. Ross ...	16½	51	7,781	62,544	47,000	98,705	145,705
K.	Mr. C. C. Warburton ...	17½	44	8,847	45,795	63,759	56,734	120,493
Total ...		161½	618	64,526	501,208	404,336	767,475	1,171,811
Previous year ...		134.7	411	63,878	714,094	337,931	361,654	699,585
Increase ...		27	207	648	...	66,405	405,821	472,226
Decrease ...		...	...	...	212,886	...	...	...

The work entered to the E. and I. Classing Establishments was done by measurers attached to them.

7. With an average addition of 27 measurers there has been an increase of 648 Survey Nos., 66,405 arable acres, 405,821 acres of undivided land and a decrease of 212,886 waslas. The average outturn per man as compared with that of last year is as follows :—

Area per man measured in		Nos.	Acres.
1880-81	...	473	2,503
1881-82	...	398	2,496
Decrease		75	7

The small decrease in the average rate of measurement is owing to the increased proportion of young measurers who naturally cannot turn out the same amount of work as do those more experienced.

8. I consider the general result of the season's measurement, giving a gross increase of 4,72,226 acres over the outturn of the previous year, to be highly satisfactory. I had noticed that the measurers had contracted the habit of making numerous unnecessary waslas merely for the purpose of showing a good return of work, the disadvantages being loss of time and unnecessary expenditure on boundary-marks to demarcate trivial bends in the Survey Nos., and therefore issued instructions which to a great extent account for the diminution of waslas shown in the year's work.

9. The 404,336 acres cultivated land was divided into 64,526 Survey Nos., giving an average of a little over 6 acres per No.; this is still larger than I wish the average to be, and I am taking steps to keep down the size of Survey Nos. measured during the current season.

10. The following statement shows the test taken of the work entered in paragraph 6 above :—

Establishment.	Superintending Officers.	TESTED BY ASSISTANTS.			TESTED BY NATIVE TESTERS.			TOTAL TEST.			Percentage of Measurement 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 ...	691	5,160	0—11	...	...	...	691	5,160	0—11	8
B.	Mr. G. F. Mathieson ...	597	3,638	0—20½	...	...	...	597	3,638	0—20½	7
C.	Mr. W. D. Wilkins ...	560	3,922	0—24	...	...	...	560	3,922	0—24	8
D.	Mr. W. A. Boulton ...	504	3,807	0—20	...	...	...	504	3,807	0—20	8
E.	Mr. W. J. Wilkins ...	276	993	0—14	...	...	...	276	993	0—14	31
F.	Mr. J. F. Nash ...	...	...	...	145	806	0—24	145	806	0—24	8
G.	Mr. G. Berrie ...	752	5,127	0—19	...	...	...	752	5,127	0—19	9
H.	Mr. W. S. Cole ...	522	3,282	0—21	...	...	...	522	3,282	0—21	8
I.	Mr. P. Ross ...	660	4,482	0—19	...	...	...	660	4,482	0—19	8
K.	Mr. C. C. Warburton ...	613	4,655	0—19	...	...	...	613	4,655	0—19	7
	Total ...	5,175	35,066	0—17	145	806	0—24	5,320	35,872	0—19	8

This return is satisfactory, both as regards the amount of test taken and in the result, showing the general accuracy of the work performed.

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 ...	63	37	46	37	9	...	...	1	3	...	4
B.	Mr. G. F. Mathieson ...	54	46	64	12	18	...	1	...	2	...	3
C.	Mr. W. D. Wilkins ...	54	46	51	11	21	1	...	...	11	1	4
D.	Mr. W. A. Boulton ...	55	45	40	18	18	3	1	...	13	6	1
E.	Mr. W. J. Wilkins ...	55	45	17	21	54	...	...	1	5	...	2
F.	Mr. J. F. Nash ...	58	42	8	34	45	2	...	...	3	4	4
G.	Mr. G. Berrie ...	57	43	55	20	13	3	2	...	4	...	3
H.	Mr. W. S. Cole ...	55	45	43	29	10	1	1	...	9	2	5
I.	Mr. P. Ross ...	58	47	57	14	17	1	2	...	5	1	3
K.	Mr. C. C. Warburton ...	56	44	56	17	15	6	...	1	2	...	3
	Average ...	56	44	44	21	22	2	1	...	6	1	3
	Previous year ...	53	47	49	16	22	1	...	1	6	2	3
	Increase ...	3	...	...	5	...	1	1	...	...	...	...
	Decrease ...	...	3	5	...	...	...	...	1	...	1	...

12. The measurers attached to the E. and I. Classing Establishments were employed during the greater portion of the season in breaking up Survey Nos.



which had under previous existing orders been made of a size now considered inadvisable for either revision or temporary settlement; this correction gave much trouble and took much time, but it was time and trouble well employed, as comparatively small Nos. are absolutely necessary for the success of the present system.

13. There is a slight decrease in the days of measurement, and an increase in those of boundary-mark inspection, which is due to arrears of the latter from last year, which had to be completed in that under report. The travelling days of the C., D. and H. are considerably in excess of those of the other establishments, on account of their having been employed during the first half of the year in Upper Sind and moved to Lower Sind at the commencement of the hot weather; the other differences need no explanation.

14. The survey took the field on the 1st November and closed work on the 15th May, a few men remaining out after the latter date to complete work actually in hand; as noted in last year's report these dates appear to be those most suited to the conditions of this province, and are those which I propose to maintain in future.

15. The health of both officers and men during the past season was good.

#### Classification.

16. During the season under report the Classing Establishments were employed, with the small exception noted in form below, in revising the measurement and collecting information, &c., preparatory to the introduction of temporary settlements into the following talukás:—

Tatta Taluka*	...	...	...	} Karáchi Collectorate.
Mirpur Batoro Taluka	...	...	...	
Kambar Taluka*	...	...	...	} Shikárpur Collectorate.
Rato-dero Taluka*...	...	...	...	

The work in those marked (\*) was completed.

17. The work of the two establishments is shewn below:—

Establishment.	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 ...	9	3	485	2,867	4,466	7,333	The figures underlined were regular classification.
			107	26,837	124,175	198,073	322,248	
F.	Mr. J. F. Nash ...	11	120	38,214	178,964	140,146	319,110	
	Total ...	20	230	65,536	306,006	342,685	648,691	
	Previous year ...	16	70	22,662	69,291	115,375	214,666	
	Increase ...	4	160	42,874	236,715	227,310	434,025	

18. The above shows a large increase in every column over the outturn of last year, but the classification work in preparing for temporary and revision settlement differs so much in its nature that the returns of the two years can scarcely fairly be compared.

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

		Nos.	Acres.
Average per man in 1880-81	...	1,872	5,381
„ „ 1881-82	...	3,277	15,300
Increase	...	1,405	9,919

20. The following shows the test taken by Assistants of the work shown in paragraph 17 above:—

Establishment.	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...	<u>92</u>	<u>492</u>	<u>.38</u>	<u>1.37</u>	19	The figures underlined were test of regular classification.
		5,073	24,295	...	...		
F.	Mr. J. F. Nash ...	5,415	31,889	...	...	14	
	Total ...	10,580	56,676	...	...	16	

21. The next statement shows the distribution of days in the 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.	55	45	65	9	13	1	...	...	8	...	4	
F.	Mr. J. F. Nash ...	58	42	54	17	20	5	...	...	2	1	1	
	Average ...	56½	43½	59½	13	16½	3	...	...	5	½	2½	
	Previous year ...	49	51	45½	10½	28	4½	...	½	4½	2½	4	
	Increase ...	7½	...	14	2½	...	...	...	...	½	...	...	
	Decrease ...	...	7½	...	...	11½	1½	...	½	...	2	1½	

The increase in the percentage of time passed in the field during the present year is due to the exceptionally short average field season of 1880-81, the reason of which was explained in last year's report. The increase and decrease in columns 5 and 7 respectively is due to the correction work this season having

to a great extent been carried out by measurers attached to the Classing Establishment, thus enabling the classers as far as practicable to attend to their own special duties ; the remaining differences need no explanation.

#### *Recess Work.*

22. Recess work commenced nominally on the 15th May and closed on the 31st October ; but some men were necessarily employed in the field after the first date in completing work in hand, and all had to leave head-quarters some days before the latter date, so as to enable them to start work on the opening day of the field season, November 1st.

23. The whole of the recess work of both Measuring and Classing Establishments was completed by the end of the season, and the survey commenced work for the new field season with no arrears.

#### *Settlement.*

24. During the year under report revised settlements were introduced into the following talukás :—

Lárhána Taluka, Shikárpur Collectorate, with effect from the year 1881-82.

Mánjhand Taluka, Karáchi Collectorate, with effect from the year 1882-83.

25. Temporary settlements were proposed and sanctioned for the following talukás, and the whole of the papers for the same, registers, maps, &c., were furnished to the Mukhtyárkars :—

Kambar Taluka	...	...	} Shikárpur Collectorate, with effect from the
Rato-dero Taluka	...	...	
Tatta Taluka	...	...	Karáchi Collectorate, with effect from the
			year 1882-83.

26. Proposals for the revision settlement of the Nasirabad Taluka were submitted and received the sanction of Government with effect from the year 1883-84 ; this settlement was not introduced during the year under report.

27. During the year the settlement of the following talukás under provisional settlement was confirmed as shown to each :—

Dádú Taluka, Karáchi Collectorate, for 10 years, from the year 1880-81.

Lárhána Taluka, Shikárpur Collectorate, for 10 years, from the year 1882-83.

#### *Maps and Lithographic Work.*

28. During the year the following maps have been issued to the district authorities :—

Maps prepared at the Photozincographic Office, Poona—

Taluka Mánjhand—Maps of 25 villages.

Hand-made maps—

Taluka Kambar—Maps of 105 villages.

„ Rato-dero	„	57	„
„ Tatta	„	44	„

#### *Cost of the Survey.*

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

	Rs.
Sind survey charges	1,87,765
Share of expenditure on paid labourers chargeable to Government	36,382
<b>Total Cost, Rupees</b>	<b>2,24,147</b>

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

	Rs.
Sanctioned grant	1,94,853
Deduct Sind Survey charges	1,87,765
<b>Saving, Rupees</b>	<b>7,088</b>



31. The unadjusted balance at the commencement of the year was Rs. 3,67,413-12-7. Bills for Rs. 1,74,719-6-0 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 (Rs. 1,32,409-15-1), stood at Rs. 3,25,104-5-8.

32. Since the close of the year, bills for Rs. 64,294-5-11 have been sent in for adjustment, and I hope during the next month or so to be able to send in bills for Rs. 1,32,863 more. I have used every endeavour during the past year to reduce, as much as possible, the very large outstanding account, to which I succeeded on taking charge of this office, and after submission of the bills last referred to, with a few exceptions of small amounts, only accounts for talukás still in hand will remain; these, as formerly explained, cannot be prepared until the talukás in question are completed.

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

		1880-81.			1881-82.			
		Rs.	a.	p.	Rs.	a.	p.	
Measurement	...	...	0	3	9	0	2	7
Classification	...	...	0	2	1	0	0	11
		<hr/>			<hr/>			
Both Operations	...	...	0	5	10	0	3	6

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

Diván Piniamal, Mukhtyárkar of Lárkhána, during introduction of settlement into that taluka.

Diván Asumal, Mukhtyárkar of Hála	...	} Reported favourably of by Assistants during progress of measuring operations.
„ Gurmukhdás, Mukhtyárkar of Jacobabad	...	
„ Mansharam, Mukhtyárkar of Sehwan	...	
„ Partabrái, Mukhtyárkar of Jati	...	
Zamindár Allahbaksh of Lima Junejo in Sijáwal	...	
„ Sobasing, Amil of Nabibaksh Khand in Sijáwal.	...	

I have the honour to be,

Sir,

Your most obedient Servant,

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

## Measurement Progress Statement for the year ending the 31st October 1882, 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 Establishments.	Names of Talukás or other Divisions in which the Establishments were employed.	MEASURE	
	In the districts.	At head-quarters.	Total.	Field Work.			No Field Work, owing to										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.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	63	37	100	40.53	36.93	8.74	.21	..	.60	3.30	..	3.69	100	17	Mr. B. G. Gilbert-Cooper	Hála .. .. .	47	8,819
																Total ..	47	8,819
B	54	46	100	64	12	18	..	1	..	2	..	3	100	20	„ G. F. Mathieson	Guni .. .. . Mirpur Batoro .. ..	48 17	6,779 1,204
																Total ..	65	8,073
C	54	46	100	51	11	21	[1	..	..	11	1	4	100	16½	„ W. D. Wilkins	Sijáwal, Shikárpur Jathi .. .. .	23 30	5,096 2,141
																Total ..	53	7,237
D	55	45	100	40.45	17.80	18.24	2.83	.97	..	12.95	5.48	1.28	100	18½	„ W. A. Boulton	Kambar .. .. . Jacobabad .. .. . Sijáwal (Karáchi) .. Jathi .. .. .	9 15 6 37	1,969 2,227 623 1,565
																Total ..	67	6,384
E	55	45	100	17	21	54	..	..	1	5	..	2	100	7	„ W. J. Wilkins	Rato-dero .. .. . Tatta .. .. . Mánjhand .. .. . Mirpur Batoro .. ..	51 41 2 5	455 409 20 9
																Total ..	99	893
F	58	42	100	8	34	45	2	..	..	3	4	4	100	15	„ J. F. Nash	Kambar .. .. .	118	1,716
																Total ..	118	1,716
G	57	43	100	55	20	13	3	2	..	4	..	3	100	18	„ G. Berrie	Guni .. .. . Mirpur Batoro .. ..	41 1	8,278 85
																Total ..	42	8,363
H	55	45	100	43	29	10	1	1	..	9	2	5	100	16	„ W. S. Cole	Rato-dero .. .. . Kambar .. .. . Sehwan .. .. . Jathi .. .. .	14 .. 5 13	2,290 46 2,698 1,379
																Total ..	32	6,413
I	53	47	100	57	14	17	1	2	..	4½	1½	3	100	16½	„ P. Ross	Guni .. .. . Tatta .. .. . Mirpur Batoro .. ..	45 4 2	7,563 61 157
																Total ..	51	7,781
K	55.50	44.50	100	55.78	17.20	14.94	5.59	.31	.50	2.45	.34	2.89	100	17½	„ C. C. Warburton	Hála .. .. . Mánjhand .. .. .	42 2	8,487 309
																Total ..	44	8,847
																Grand Total ..	619	64,526

1.

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 "	Amble Acres.	Undivided amble 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
55,940	65,325	57,254	122,579	47	691	5,160	A. R. 0 11	..	..	A. g. ..	691	5,160	A. g. 0 11	Rs. a. p. ..	
55,940	65,325	57,254	122,579	47	691	5,160	0 11	..	..	..	691	5,160	0 11	0 2 9	
67,731 12,917	41,238 5,718	131,495 36,584	172,733 42,802	46 17	513 84	3,231 407	0 20 0 21	.. ..	.. ..	.. ..	513 84	3,231 407	0 20 0 21	.. ..	
80,648	46,956	168,079	215,035	63	597	3,638	0 20 1/2	..	..	..	597	3,638	0 20 1/2	0 1 10	
43,872 19,093	36,764 10,691	21,099 70,447	57,854 81,138	23 30	381 179	2,874 1,048	0 23 0 26	.. ..	.. ..	.. ..	381 179	2,874 1,048	0 23 0 26	.. ..	
62,965	47,455	91,587	138,992	53	560	3,922	0 24	..	..	..	560	3,922	0 24	0 2 2	
21,659 13,449 6,438 13,157	16,090 17,016 3,115 7,911	12,773 17,057 18,186 114,527	28,863 34,073 21,301 122,438	9 15 6 36	152 177 47 128	1,393 1,483 253 678	0 20 0 19 0 25 0 22	.. .. .. ..	.. .. .. ..	.. .. .. ..	152 177 47 128	1,393 1,483 253 678	0 20 0 19 0 25 0 22	.. .. .. ..	
54,703	44,132	162,543	206,675	66	504	3,807	0 20	..	..	..	504	3,807	0 20	0 2 1	
3,559 2,519 119 45	1,869 1,493 88 45	.. .. .. ..	1,869 1,493 88 45	40 24 .. ..	168 108 .. ..	579 414 .. ..	0 15 0 13 .. ..	.. .. .. ..	.. .. .. ..	.. .. .. ..	168 108 .. ..	579 414 .. ..	0 15 0 13 .. ..	.. .. .. ..	
6,342	3,495	..	3,495	64	276	993	0 14	..	..	..	276	993	0 14	1 15 7	
15,356	4,861	722	5,583	28	..	..	..	145	806	0 24	145	806	0 24	..	
15,356	4,861	722	5,583	28	..	..	..	145	806	0 24	145	806	0 24	1 8 4	
76,181 939	45,934 393	54,581 2,924	100,515 3,317	40 1	745 7	5,093 34	0 19 0 29	.. ..	.. ..	.. ..	745 7	5,093 34	0 19 0 29	.. ..	
77,120	46,327	57,505	103,832	41	752	5,127	0 19	..	..	..	752	5,127	0 19	0 3 6	
19,876 814 8,736 10,969	11,489 413 15,302 7,822	24,594 .. 19,101 30,701	36,083 413 34,403 88,523	14 .. 5 13	184 4 223 111	1,161 32 1,402 687	0 23 0 28 0 19 0 18	.. .. .. ..	.. .. .. ..	.. .. .. ..	184 4 223 111	1,161 32 1,402 687	0 23 0 28 0 19 0 18	.. .. .. ..	
39,898	35,026	74,396	109,422	32	522	3,282	0 21	..	..	..	522	3,282	0 21	0 3 2	
60,541 319 1,684	45,890 314 886	73,154 23,621 1,930	118,954 23,935 2,816	45 1 3	635 5 20	4,349 20 113	0 19 0 15 0 17	.. .. ..	.. .. ..	.. .. ..	635 5 20	4,349 20 113	0 19 0 15 0 17	.. .. ..	
62,544	47,000	98,705	145,705	49	690	4,482	0 19	..	..	..	690	4,482	0 19	0 2 2	
43,666 2,129	61,732 2,027	52,961 3,773	114,693 5,800	36 2	596 18	4,563 92	0 19 0 13	.. ..	.. ..	.. ..	596 18	4,563 92	0 19 0 13	.. ..	
45,795	68,759	56,734	120,493	38	613	4,655	0 19	..	..	..	613	4,655	0 19	0 2 4	
5,01,208	4,04,396	767,475	1,171,811	481	5,175	35,066	0 17	145	806	0 24	5,320	35,872	0 19	0 2 7	

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



*Statement for the Sind Revenue Survey Department, exhibiting the Amount of Discrepancy between the Test and Original Measurements of all the Fields entered in Columns 25 to 33 of Statement No. 1, as tested during the year ending the 31st October 1882.*

Distinguishing Letter of Establishment.	Name of Officers who superintended the Establishment.	Names of Talukás measured.	Total Number of Fields tested.	NUMBER OF FIELDS IN WHICH THE DIFFERENCE PER CENT. BETWEEN ORIGINAL AND TEST MEASUREMENT DID NOT EXCEED																
				1 per cent.	2 per cent.	3 per cent.	4 per cent.	5 per cent.	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.	23 per cent.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A.	Mr. B. G. Gilbert-Cooper...	Hála ... ..	691	689	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Total ...	691	689	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
B.	Mr. G. F. Mathieson ...	Guni ... ..	513	445	50	14	3	...	1	...	...	...	...	...	...	...	...	...	...	
		Mirpur Batoro ...	84	75	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Total ...	597	520	59	14	3	...	1	...	...	...	...	...	...	...	...	...	...	
C.	Mr. W. D. Wilkins ...	Sijáwal (Shikárpur) ...	381	374	4	2	...	...	...	...	...	1	...	...	...	...	...	...	...	
		Jathi ... ..	179	161	15	3	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Total ...	560	535	19	5	...	...	...	...	...	1	...	...	...	...	...	...	...	
D.	Mr. W. A. Boulton ...	Kambar... ..	152	133	17	2	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Jacobabad ... ..	177	154	18	5	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Sijáwal (Karáchi) ...	47	35	8	4	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Jathi ... ..	128	103	18	7	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Total ...	504	425	61	18	...	...	...	...	...	...	...	...	...	...	...	...	...	
E.	Mr. W. J. Wilkins ...	Rato-dero ... ..	168	158	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Tatta ... ..	108	106	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Total ...	276	264	11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	

F.	Native Testers	Kambar...	145	127	12	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total	145	127	12	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
G.	Mr. Berrie	Guni ... Mirpur Batoro...	670 7	594 6	60 1	12	3	1	...	...	...	...	...	...	...	...	...	...	...	...
	Mr. C. E. Biddulph	Guni	75	64	8	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
		Total	752	664	69	14	3	2	...	...	...	...	...	...	...	...	...	...	...	...
H.	Mr. W. S. Cole	Rato-dero ... Kambar ... Sehwan ... Jathi ...	79 4 154 33	73 3 129 26	4 ... 17 6	1 1 4 1	1 ... 3 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mr. C. F. Erskine	Rato-dero ... Sehwan ... Jathi ...	105 69 78	92 66 73	10 3 4	2 ... 1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Total	522	462	44	10	4	1	...	...	...	...	...	...	...	...	...	...	...	1
I.	Mr. P. Ross	Guni ... Tatta ... Mirpur Batoro...	543 5 20	489 4 18	43 ... 2	7 1 ...	3 ... ...	1	...	...	...	...	...	...	...	...	...	...	...	...
	Mr. C. E. Biddulph	Guni	92	82	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total	660	593	55	8	3	1	...	...	...	...	...	...	...	...	...	...	...	...
K.	Mr. C. C. Warburton	Hála ... Mánjhand ...	595 18	538 17	47 1	2 ...	3 ...	3	1	...	...	...	1	...	...	...	...	...	...	...
		Total	613	555	48	2	3	3	1	...	...	...	1	...	...	...	...	...	...	...
		Grand Total	5,320	4,834	379	79	16	7	2	...	...	1	1	...	...	...	...	...	...	1

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

*Field Boundary Mark Statement for the year ending 31st October 1882, 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	
Classing.	A	Mr. B. G. Gilbert-Cooper ...	47	...	46	19	28	28	19	Stones were not procurable to complete the demarcation of villages in columns 6 & 9. 18 villages in excess in column 5 are the arrears of last year completed this year.
	B	Mr. G. F. Mathieson ...	65	53	12	...	...	83	...	Arrears of 18 villages of last year of the A. Establishment completed this year by this establishment.
	C	Mr. W. D. Wilkins ...	51	37	33	...	16	51	...	Arrears of last year completed this year. The accounts have been prepared by the F. Establishment.
	D	Mr. W. A. Boulton ...	67	56	35	...	19	67	...	Do. do.
	E	Mr. W. J. Wilkins ...	(99)	...	...	...	...	...	...	All work connected with these villages was completed, but as they have already been shown in last year's work, columns 4 to 9 are left blank. The Black figure in column 8 shows the arrears of C., D. & H. Establishments of last year completed this year by this establishment.
	F	Mr. J. F. Nash ...	(118)	...	*5	...	...	63	...	*Arrears of last year of H. establishment completed this year by this establishment.
	G	Mr. G. Berrie ...	42	18	29	...	31	42	...	
	H	Mr. W. S. Cole ...	32	...	47	...	25	32	...	Out of the 20 villages in arrears of last year, 15 completed this year and the remaining 5 by the F. Establishment.
	I	Mr. P. Ross ...	50	37	22	...	10	59	...	Arrears of 9 villages of last year completed this year.
	K	Mr. C. C. Warburton ...	44	10	26	8	26	36	8	Stones were not procurable to complete the demarcation of villages in columns 6 and 9.
		Total ...	615	206	255	27	155	461	27	

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



*Monsoon Office Work Progress Statement for the year ending the 31st October 1882 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 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 Districts.	Village Maps.		Examination and Correction of Field-books and Papers prepared in the District.	Village Maps.		
				Examination and correction of rough original.	Preparation or correct fair copies.		Examination and correction of rough original.	Preparation of correct fair copies.	
1	2	3	4	5	6	7	8	9	10
Classing.	A Mr. B. G. Gilbert-Cooper ... ..	47	47	47	28	...	...	19	Maps of 19 villages in column 9 cannot be completed until stones are put up in these villages.
	B Mr. G. F. Mathieson ... ..	65	65	65	65	...	...	...	
	C Mr. W. D. Wilkins ... ..	51	51	51	51	...	...	...	
	D Mr. W. A. Boulton ... ..	67	67	67	67	...	...	...	
	E Mr. W. J. Wilkins ... ..	(99)	...	...	...	...	...	...	
	F Mr. J. F. Nash ... ..	(118)	...	...	...	...	...	...	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 ... ..	42	42	42	42	...	...	...	
	H Mr. W. S. Cole ... ..	32	32	32	32	...	...	...	
	I Mr. P. Ross ... ..	50	50	50	50	...	...	...	
	K Mr. L. W. Seymour ... ..	44	44	44	36	...	...	8	
Total ... ..		615	398	398	371	...	...	27	Maps of 8 villages in column 9 cannot be completed until stones are put up in these villages.

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

*Classification Progress Statement for the Year ending the 31st October 1882, for the Sind Revenue Survey Department, under the Superintendence of Lieutenant-Colonel  
J. W. M. Anderson, Superintendent of 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.										Average number of Classes employed during the Working Season.	Names of Officers who superintended the Establishment.	Names of Talukás under Classification in Season under Report.	NUMBER 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.				Field Work.					No Field Work, owing to												By European Officers.			By Native Testers.			Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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	39	40																																																																																																																																																																																																																																																																																																																																																																																																																																																					
																																											Ordinary classification.	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.	Fields.	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.	Acres.	Soil.	Water	Classification of soil.	Classification of water.

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



## No. 6.

*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 to 38 of Statement No. 5, as tested during the year ending the 31st October 1882.*

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. 0 0 0		Rs. a. p. 0 0 1 *to 0 0 6		Rs. a. p. 0 0 7 to 0 1 0		Rs. a. p. 0 1 1 to 0 1 6		Rs. a. p. 0 1 7 to 0 2 0		Rs. a. p. 0 2 1 to 0 2 6		Rs. a. p. 0 2 7 to 0 3 0		Rs. a. p. 0 3 1 to 0 3 6		Rs. a. p. 0 3 7 to 0 4 0		Rs. a. p. 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.		
				4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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. J. Wilkins	{	Sukkur	2222	21	20	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			Mánjhand	7070	65	65	5	1	...	1	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...
			Total	9292	86	85	6	1	...	3	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...
			Rato-dero	5073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			Tatta		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
			Mirpur Batoro	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
			Total	5,073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Total of the E. Establishment...	.....	5,165	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
F	Mr. J. F. Nash	Kambar	5,415	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
			Total of the F. Establishment	5,415	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
			Grand Total	10,580	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

The Black figures were test of Regular Classification.

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



## No. 7.

*Monsoon Office Work Progress Statement for the year ending the 31st October 1882, for the Classing 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 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 ... ..	110	110	110	...	...	
F.	Mr. J. F. Nash ... ..	118	118	118	...	...	
	Total ...	228	228	228	...	...	

18

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

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 1882, by the Sind Revenue Survey Department, under the Superintendence of Lieut.-Col. J. W. M. Anderson.

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	...	...	...	...	Original settlement has not been introduced into these talukas.
	Sehwan ...	...	52	...	...	...	52	...	52	...	...	...	...	
	Dadu ...	...	59	...	...	...	59	...	59	...	...	...	...	
	Mánjhand ...	...	25	...	...	...	25	...	25	...	...	...	...	
	Sijawal ...	...	...	...	...	30	...	...	...	...	...	...	...	
	Mirpur ...	...	...	...	...	...	...	...	...	...	...	...	...	
Hyderabad	Tatta ...	Temporary 44	...	...	44	...	...	...	...	...	...	...	...	Original settlement has not been introduced into these talukas.
	Kandiaro ...	...	59	...	...	...	59	...	59	...	...	...	...	
	Naushahro ...	...	95	...	...	...	95	...	95	...	...	...	...	
	Moro ...	...	61	...	...	...	61	...	61	...	...	...	...	
	Sakrand ...	...	90	...	...	...	90	...	90	...	...	...	...	
	Shahdádpur ...	...	110	...	...	...	110	...	110	...	...	...	...	
	Mirpur Khás ...	35	...	...	...	35	...	35	...	...	...	...	...	
	Hala ...	69	...	...	...	69	...	69	...	...	...	...	...	
	Tando Aláhyar ...	57	...	...	...	57	...	57	...	...	...	...	...	
	Hyderabad ...	52	...	...	...	52	...	52	...	...	...	...	...	
	Dero Mohbat ...	62	...	...	...	62	...	62	...	...	...	...	...	
Shikárpur.	Guni ...	...	...	...	...	96	...	...	...	...	...	...	...	Original settlement has not been introduced into these talukas.
	Bágo ...	...	...	...	...	88	...	...	...	...	...	...	...	
	Badin ...	...	...	...	...	90	...	...	...	...	...	...	...	
	Rohri ...	...	45	...	...	...	45	...	45	...	...	...	...	
	Ghotki ...	98	...	...	...	98	...	98	...	...	...	...	...	
	Mirpur ...	81	...	...	...	83	...	83	...	...	...	...	...	
	Ubauro ...	91	...	...	...	91	...	91	...	...	...	...	...	
	Kakar ...	...	Temporary 53	...	53	...	...	...	...	...	...	...	...	
	Mehar ...	...	53	...	53	...	...	...	...	...	...	...	...	
	Tigar ...	...	48	...	48	...	...	...	...	...	...	...	...	
	Lárkhána ...	...	Revision 66	...	66	...	18	...	...	...	48	...	...	
	Labdarya (in part) ...	...	Temporary 34	...	34	...	...	...	...	...	...	...	...	
	Nasirabad ...	53	...	...	...	53	...	53	...	...	...	...	...	
	Kambar ...	...	Temporary 118	...	118	...	...	...	...	...	...	...	...	
Shikárpur.	Sijawal ...	86	...	...	...	86	...	86	...	...	...	...	...	Maps of 105 villages supplied during the year and of 13 villages after the close of the year.
	Rato-dero ...	...	Temporary 57	...	57	...	...	...	...	...	...	...	...	
	Shikárpur (in part) ...	27	...	...	...	27	...	27	...	...	...	...	...	
	Naushahro (in part) ...	69	...	...	...	69	...	69	...	...	...	...	...	
	Sukkur ...	...	69	...	...	69	...	69	...	...	...	...	...	
Total ...		824	1,108	...	473	1,086	750	729	679	...	48	...	...	

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



No. 9.

*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 1882 with that for the preceding year.*

Years.	Share of charges on account of Survey Commissioner's Office, &c.		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.	Rs.	Per cent.	
1880-81 ... ..	3,697	2	15,993	8.4	65,295	34.4	65,257	34.4	7,812	4.1	31,688	16.7	1,89,742	100	
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	

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

Imp 15990  
Dated 30.12.09



*General Statement showing the Cost of the Sind Revenue Survey Department under the Superintendence of Lieutenant-Colonel J. W. M. ANDERSON, from the commencement of Operations until the close of the year ending 31st October 1882.*

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.		
Total of previous years from 1862-63 to 1873-74   ...   ...	13,079,541	0   1   6	6,157,597	0   1   6	0   3   0	1,791,269	
1874-75   ...   ...	509,334	0   4   0	226,010	0   0   9	0   4   9	148,828	} 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	141,877	
1876-77   ...   ...	763,470	0   2   1	698,236	0   0   9	0   2   10	144,257	
1877-78   ...   ...	371,445	0   5   6	549,967	0   0   5	0   5   11	151,867	} The cost is inclusive of charges for labourers.
1878-79   ...   ...	466,716	0   3   6	449,026	0   0   4	0   3   10	121,068	
1879-80   ...   ...	515,017	0   3   10	522,775	0   0   11	0   4   9	153,833	
1880-81   ...   ...	699,585	0   3   9	214,666	0   2   1	0   5   10	189,742	
1881-82   ...   ...	1,171,811	0   2   7	648,691	0   0   11	0   3   6	224,147	

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

## No. 11.

*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.
KARA CHI.	Kotri ... ..	Revision complete	Revision complete	Revision complete.
	Sehwan ... ..	" "	" "	" "
	Dádú ... ..	" "	" "	" "
	Mánjhand ... ..	" "	" "	" "
	Tatta ... ..	" "	Temporary	Temporary
	Ghorabari ... ..	Original	"	"
	Sákro ... ..	" "	"	"
	Sijáwal ... ..	Revision	"	"
	Mirpur Batoro... ..	" "	Temporary in hand	"
	Jathi ... ..	" in hand	"	"
	Sháhbandar ... ..	Original complete	"	"
HYDERABAD.	Kandiáro ... ..	Revision complete	Revision complete	Revision complete.
	Naushahro ... ..	" "	" "	" "
	Moro ... ..	" "	" "	" "
	Sakrand... ..	" "	" "	" "
	Shahdádpur ... ..	" "	" "	" "
	Hála ... ..	" in hand	Original	Original
	Mirpur Khás ... ..	Original complete	" "	" "
	Hyderabad ... ..	" "	" "	" "
	Tando Alahyar... ..	" "	" "	" "
	Dero Mohbat ... ..	" "	" "	" "
	Guni ... ..	Revision in hand	"	"
	Bágo ... ..	Original complete	"	"
	Badin ... ..	" "	"	"
SHIKÁRPUR.	Sukkur ... ..	Revision complete	Revision complete...	Revision complete.
	Kakar ... ..	" "	Temporary	Temporary
	Mehar ... ..	" "	" "	" "
	Tigar ... ..	" "	Revision	" "
	Nasirabad ... ..	" "	" "	Original
	Kambar... ..	" "	Temporary	Temporary
	Lárkhána ... ..	" "	Revision	Revision
	Labdarya ... ..	" "	" "	Temporary
	Rato-dero ... ..	" "	Temporary	"
	Sijáwal... ..	" "	Original	Original
	Naushahro Abro ... ..	Original complete	" "	Original 3rd
	Shikárpur ... ..	" "	" "	" 4th
	Rohri ... ..	Revision	Revision	Revision
	Ghotki ... ..	Original	Original	Original
	Mirpur ... ..	" "	" "	" "
	Ubauro ... ..	" "	" "	" "
FRONTIER DISTRICTS.	Jacobabad ... ..	Revision in hand	"	"
	Thul ... ..	Original partly in hand	"	"
	Kashmor ... ..	" "	"	"
THAE AND PAKAR.	Sánghar ... ..	Original complete	"	"
	Khipra ... ..	" "	"	"
	Umarkot ... ..	" "	"	"
	Cháchra ... ..	"	"	"
	Mitti ... ..	"	"	"
	Dipla ... ..	"	"	"
	Nagar ... ..	"	"	"

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



*Balance Sheet showing the Amount and Particulars of Unadjusted Advances as the same stood on the 31st October 1882, for the Sind Revenue Survey Department, under the Superintendence of Lieutenant-Colonel J. W. M. Anderson, Superintendent, Sind Revenue Survey.*

Advances and Receipts.	Account.	BALANCE.		REMARKS.
		Remaining at Debit.	Remaining at Credit.	
		Rs. a. p.	Rs. a. p.	
Unadjusted.	Collector of Karáchi ... ..	60,295 4 4	.....	
	Do. of Hyderabad ... ..	75,532 7 10	.....	
	Do. of Shikárpur ... ..	1,89,276 9 6	.....	
	Miscellaneous Sources ... ..	.....	.....	
	Total ...	3,25,104 5 8	.....	
Distribution of Unadjusted Advances and Receipts.	Expended on measurement and classification of the Mánjhand Táluka...	204 4 1	.....	Bills for these amounts will be submitted during the current year.
	Do. on boundary marks in do. ...	611 3 9	.....	
	Do. do. in the Badin Táluka ...	3,521 0 9	.....	
	Do. do. in the Naushahro Abro Táluka...	1,000 0 0	.....	Bills for these amounts cannot be submitted until temporary or revised settlements are introduced into these tálukas.
	Do. do. in the Shikárpur Táluka.	1,000 0 0	.....	
	Stones in the charge of the Mukhtiárkar of Kakar ...	587 5 6	.....	Bills for this amount cannot be submitted until the stones are utilized in some other tálukas.
	Expended on boundary marks in the Shahdádpur Táluka ...	341 1 0	.....	Bills for this amount will be submitted during the current year.
	Do. on measurement of the Hála Táluka ...	10,909 5 4	.....	Bills for these amounts cannot be submitted until a temporary or revised settlement is introduced into this táluka.
	Do. on boundary marks in do. ...	23,267 9 2	.....	
	Do. on measurement and classification of the Nasirabad Táluka...	12,449 13 2	.....	Bills for these amounts will be submitted during the current year.
	Do. on boundary marks in do. ...	36,903 12 3	.....	
	Do. on measurement of the Jacobabad Táluka...	1,585 9 7	.....	Bills for these amounts cannot be submitted until a temporary or revised settlement is introduced into this táluka.
	Do. on boundary marks in do. ...	3,471 10 0	.....	
	Do. on measurement and classification of the Kambar Táluka ...	20,782 5 5	.....	Of these amounts bills for Rs. 49,412-6-11 have since been sent in; bills for the balance will be submitted during the current year.
	Do. on boundary marks in do. ...	41,510 3 8	.....	
	Do. on measurement and classification of the Rato-dero Táluka...	10,077 6 0	.....	Of these amounts bills for Rs. 14,881-15-0 have since been submitted. Bills for the balance will be submitted during the current year.
	Do. on boundary marks in do. ...	10,005 15 2	.....	
	Do. on measurement of the Sehwan Táluka ...	1,517 4 4	.....	Bills for these amounts cannot be submitted until temporary or revised settlements are introduced into these tálukas.
	Do. on boundary marks in do. ...	4,292 8 5	.....	
	Do. do. in the Hyderabad Táluka	1,800 0 0	.....	Bills for these amounts will be submitted during the current year.
	Do. on measurement and classification of the Mehar Táluka ...	9,226 3 0	.....	
	Do. on boundary marks in do. ...	34,376 14 11	.....	Bills for these amounts cannot be submitted until a temporary or revised settlement is introduced into this táluka.
	Do. on measurement of the Sijáwal Táluka of Shikárpur Collectorate...	6,495 6 6	.....	
	Do. on boundary marks in do. ...	7,918 11 11	.....	Bills for these amounts will be submitted during the current year.
	Do. on measurement and classification of the Tatta Táluka ...	8,064 11 11	.....	
	Do. on boundary marks in do. ...	9,354 13 5	.....	Bills for these amounts cannot be submitted until temporary settlements are introduced into these tálukas.
	Do. on measurement of the Sijáwal Táluka of the Karáchi Collectorate.	6,355 4 6	.....	
	Do. on boundary marks in do. ...	2,061 15 1	.....	Of these amounts bills for Rs. 6,017-9-11 will be submitted shortly. Bills for the balance cannot be submitted until a temporary or revised settlement is introduced into this táluka.
	Do. on measurement of the Mirpur Batoro Táluka...	8,326 9 0	.....	
	Do. on boundary marks in do. ...	1,475 8 3	.....	Bills for these amounts cannot be submitted until these tálukas come under settlement.
	Do. on measurement of the Ghorabari Táluka ...	1,093 2 4	.....	
	Do. on boundary marks in do. ...	657 13 0	.....	Bills for these amounts cannot be submitted until these tálukas come under settlement.
	Do. on measurement of the Guni Táluka ...	17,760 15 1	.....	
	Do. on boundary marks in do. ...	12,184 1 2	.....	Bills for these amounts cannot be submitted until these tálukas come under settlement.
	Do. on measurement of the Jathi Táluka ...	4,874 15 0	.....	
	Do. on boundary marks in do. ...	3,892 5 8	.....	Bills for these amounts cannot be submitted until these tálukas come under settlement.
	Value of stones in the charge of Mukhtiárkar of Umar-kot ...	2,500 0 0	.....	
	Do. do. do. of Sháhbandar ...	562 8 0	.....	Bills for these amounts cannot be submitted until these tálukas come under settlement.
	Advanced to Contractor for stones in the Mirpur Sakro Táluka ...	500 0 0	.....	
	Cash in hand with Assistants ... ..	1,506 6 2	.....	Bills for these amounts cannot be submitted until these tálukas come under settlement.
	Do. do. Superintendent ... ..	77 11 2	.....	
	Total ...	3,25,104 5 8	.....	

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 1882.*

Names.	Amount of Salary.	Cause of Dismissal.
None.		

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 1881-82 in the undermentioned Tálukas of the Karáchi, Hyderabad and Shikárpur Collectorates.*

Collectorate.	Names of Tálukas.				Revenue Collections prior to Settlement.	Revenue Realizations under Settlement in the year 1881-82
					Rs.	Rs.
Karáchi ...	{	Dádú ...	...	R	58,212	1,55,898
		Sehwan ...	...	R	1,03,760	1,93,360
		Mánjhand ...	...	R	14,249	34,781
		Kotri ...	...	R	10,704	22,723
	Total ...				1,86,925	4,06,762
Hyderabad ...	{	Kandiáro ...	...	R	91,697	1,18,859
		Naushahro ...	...	R	1,25,204	1,80,868
		Moro ...	...	R	64,022	99,629
		Sakrand ...	...	R	57,647	1,13,943
		Hála ...	...	O	70,962	90,855
		Shahdádpur ...	...	R	79,707	1,54,255
		Tando Alahyar ...	...	O	84,556	86,103
		Mirpur Khás ...	...	O	34,130	51,838
		Hyderabad ...	...	O	62,141	84,448
		Dero Mohbat ...	...	O	48,156	58,314
	Total ...				7,18,222	10,39,112
Shikárpur ...	{	Kakar ...	...	T	1,16,838	1,73,583
		Mehar ...	...	T	1,03,272	1,38,208
		Nasirabad ...	...	O	1,05,749	1,13,097
		Tigar ...	...	T	89,715	1,02,964
		Lákhána ...	...	R	2,18,315	3,47,086
		Labdarya ...	...	T	82,316	1,24,363
		Kambar ...	...	O	1,73,604	2,11,535
		Sijáwal ...	...	O	46,461	49,905
		Rato-dero ...	...	O	86,999	70,043
		Shikárpur ...	...	O	28,825	68,077
		Naushahro Abro ...	...	O	75,520	1,19,401
		Rohri ...	...	R	62,933	83,358
		Ghotki ...	...	O	1,37,476	1,17,871
		Mirpur ...	...	O	77,040	71,990
		Ubauro ...	...	O	58,455	59,192
		Sukkur ...	...	R	67,386	1,29,982
	Total ...				15,30,904	19,80,655
Grand Total ...					24,36,051	34,26,529

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

*Remark.*—R signifies tálukas under Revision, T under Temporary, and O under Original Settlement.



REVENUE DEPARTMENT.

FROM

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

TO

HIS EXCELLENCY THE RIGHT HONOURABLE  
SIR JAMES FERGUSSON, BART., K.C.M.G. AND C.I.E.,  
GOVERNOR AND PRESIDENT IN COUNCIL, BOMBAY.  
*Commissioner's Office, Camp Karampur,*  
16th January 1883.

RIGHT HONOURABLE SIR,

I have the honour to submit the Annual Progress Report of the Superintendent, Sind Revenue Survey, for the year 1881-82.

2. The department during the year has been under Lieutenant-Colonel J. W. M. Anderson, and the results reported are, I am glad to state, satisfactory.

3. During the season ten establishments were in the field against nine in the previous year, and measurements were carried on in eleven talukás, the measurements in six talukás being completed during the year. These measurements were with a view to original settlement in seven talukás, and with a view to revision settlement in four.

4. The Superintendent in his 6th paragraph has shown details of the work done by each of the establishments during the year. From this it appears that 1,171,811 acres were measured during the year as compared with 699,585 in the previous year; and though, owing to the large number of young measurers, there is a small decrease as compared with the previous year in the average rate of measurement, I agree with Lieutenant-Colonel Anderson in considering that the amount of work got through is highly creditable.

5. In his 8th paragraph Lieutenant-Colonel Anderson has shown the test taken by each Assistant of the measurements, and also the number of fields tested by native testers, and the results recorded are satisfactory "both as regards the amount of test taken and in the result."

6. The working season in the field was somewhat shorter than in the previous year, the different establishments having gone into camp on the 1st November and closed work as a rule on the 15th May. Experience has shown, as I explained in my last year's report, that this is late enough to keep out establishments in Sind. The health of both officers and men during the year was, it is satisfactory to note, good.

7. There were two establishments employed in classing lands during the year, and the amount of work performed by them was satisfactory; but for the reason given by the Superintendent in his 18th paragraph it is hardly possible to compare the outturn of work with that of the previous year. Full details regarding the work done are given in paragraphs 19 to 21.

8. During the recess all recess work was completed.

9. The amount of settlement work completed during the year is given in detail in paragraphs 25, 26 and 27, and it seems needless to repeat those details; but the progress made has been good, and the more I see of the working of the settlement, the more satisfied I become of the wisdom of the course now being followed of introducing temporary settlements for a few years before any attempt is made to introduce a regular settlement with its less elastic system.



10. The cost per acre of survey operations for the year has been very low,—only 3 annas 6 pies,—as compared with 5 annas 10 pies in the previous year.

11. The general results of the year's operations as compared with those of the previous year are as follows :—

Year.	GENERAL AREA, RETURN OF.			Expenditure.	Combined Cost per Acre.
	Measurement.	Classification.	Settlement Acres.		
1881-82...	1,171,811	648,691	105,832	Rs. 2,24,147	A. p. 3 6 Without settle- ment.
1880-81 ...	699,585	214,666	N.B.—Temporary settlement rates not included.	1,89,742	1 10 With settle- ment. 5 10

12. The following statement shows the result of the work of the year in Sind :—

Táluka.	Amount of Settlement Jama fixed on Cultivated Lands.	Average of past Collections.	INCREASE.	
			Rs.	Percentage.
	Rs.	Rs.		
Kambar ...	2,73,012	1,83,618	89,394	48·6
Rato-dero ...	1,01,499	73,752	27,747	37·6
Tatta ...	50,000	40,482	9,518	23·5
Total ...	4,24,511	2,97,852	1,26,659	42·5

13. The above shows an increase of assessment of Rs. 1,26,659, or 42·5 per cent. on past collections, a large increase due to improvement in canals and protective embankments, and to improved communications, especially the Indus Valley State Railway.

14. From Statement No. 14, appended to the Superintendent's report, it appears that the revenue collections in the thirty tálukás in which settlement operations have been carried on prior to settlement were Rs. 24,36,051, while the revenue realizations under the settlement in the past year were Rs. 34,26,529, showing an increase in revenue amounting to Rs. 9,90,478. As the revised settlement, which gives the best results, has not yet been introduced into eighteen of the tálukás, it is evident that as the settlement progresses a very large increase in revenue may be looked for, provided, that is, the canal and protective embankments are kept in good order. The so-called temporary settlements are likely in my opinion to give equally good results with the revised settlements, and these settlements should be continued in several parts of Sind for a good many years to come as better suited to the circumstances of the tálukás and as less likely to press hardly on the old lease-holders than the revised settlement system might, if at once introduced. Under the temporary settlement system only actual cultivation is considered when assessing lands—a system under certain restrictions better suited to the tastes and habits of the people of Sind than the more elaborate system of fallows in force where the revised settlement system has been introduced.

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

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

No. 1134 of 1882.

## REVENUE DEPARTMENT.

FROM

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

TO

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

*Superintendent's Office,  
Camp Jacobabad, 28th December 1882.*

SIR,

I have the honour to submit the Annual Progress Report of the Sind Revenue Survey and Settlement Department for the year 1881-82.

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

Mr. L. W. Seymour was appointed to settle camel claims and was absent on this special duty from the 2nd November 1881 to the 14th May 1882.

Mr. C. F. Erskine was promoted to Assistant Superintendent on the 27th December 1881.

Mr. C. E. Biddulph rejoined from three months' Afghan leave on the 28th November 1881.

Mr. C. E. Biddulph was absent on leave without pay from the 30th May to the 17th July 1882.

Mr. C. E. Biddulph was absent on examination leave to the Presidency from the 27th September to the 6th October 1882.

Mr. L. W. Seymour was absent on privilege leave from the 16th September to the 25th October 1882.

3. At the close of the year 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 ... ..	11	...	11
Acting Assistant Superintendent ... ..	1	...	1
Total ... ..	14	...	14

*Measurement.*

4. Measurements, with a view to original settlement, were carried on in the following talukás :—

Mirpur Batoro* ... ..	} Karáchi Collectorate.
Sijáwal* ... ..	
Tatta* ... ..	
Jati ... ..	
Sehwan ... ..	} Hyderabad Collectorate.
Guni ... ..	
Jacobabad ... ..	Upper Sind Frontier District.



5. Measurements, with a view to revision settlement, were carried on in talukás as follows :—

Hála ... ..	Hyderabad Collectorate.
Kambar* ... ..	} Shikárpur Collectorate.
Rato-dero* ... ..	
Sijáwal* ... ..	

In the talukás marked (\*) the measurements were completed.

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

Establishment.	Superintending Officers.	Average No. of Measurers.	MEASUREMENT.					
			No. of Villages.	Survey Nos.	No. of Waslas.	Arable Acres.	Undivided land—Acres.	Total Acres.
1	2	3	4	5	6	7	8	9
A.	Mr. B. G. Gilbert-Cooper ...	17	47	8,819	55,940	65,325	57,254	122,579
B.	Mr. G. F. Mathieson ...	20	65	8,073	80,648	46,956	168,079	215,035
C.	Mr. W. D. Wilkins ...	16½	53	7,237	62,965	47,455	91,537	138,992
D.	Mr. W. A. Boulton ...	18½	67	6,384	54,703	44,132	162,543	206,675
E.	Mr. W. J. Wilkins ...	7	99	893	6,242	3,495	...	3,495
F.	Mr. J. F. Nash ...	15	118	1,716	15,356	4,861	722	5,583
G.	Mr. G. Berrie ...	18	42	8,363	77,120	46,327	57,505	103,832
H.	Mr. W. S. Cole ...	16	32	6,413	39,895	35,026	74,396	109,422
I.	Mr. P. Ross ...	16½	51	7,781	62,544	47,000	98,705	145,705
K.	Mr. C. C. Warburton ...	17½	44	8,847	45,795	63,759	56,734	120,493
Total ...		161½	618	64,526	501,208	404,336	767,475	1,171,811
Previous year ...		134½	411	63,878	714,094	337,931	361,654	699,585
Increase ...		27	207	648	...	66,405	405,821	472,226
Decrease ...		...	...	...	212,886	...	...	...

The work entered to the E. and I. Classing Establishments was done by measurers attached to them.

7. With an average addition of 27 measurers there has been an increase of 648 Survey Nos., 66,405 arable acres, 405,821 acres of undivided land and a decrease of 212,886 waslas. The average outturn per man as compared with that of last year is as follows :—

		Nos.	Acres.
Area per man measured in 1880-81 ...	473	2,503	
„ „ 1881-82 ...	398	2,496	
Decrease ...	75	7	

The small decrease in the average rate of measurement is owing to the increased proportion of young measurers who naturally cannot turn out the same amount of work as do those more experienced.

8. I consider the general result of the season's measurement, giving a gross increase of 4,72,226 acres over the outturn of the previous year, to be highly satisfactory. I had noticed that the measurers had contracted the habit of making numerous unnecessary waslas merely for the purpose of showing a good return of work, the disadvantages being loss of time and unnecessary expenditure on boundary-marks to demarcate trivial bends in the Survey Nos., and therefore issued instructions which to a great extent account for the diminution of waslas shown in the year's work.



9. The 404,336 acres cultivated land was divided into 64,526 Survey Nos., giving an average of a little over 6 acres per No.; this is still larger than I wish the average to be, and I am taking steps to keep down the size of Survey Nos. measured during the current season.

10. The following statement shows the test taken of the work entered in paragraph 6 above:—

Establishment.	Superintending Officers.	TESTED BY ASSISTANTS.			TESTED BY NATIVE TESTERS.			TOTAL TEST.			Percentage of Measurement 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 ...	691	5,160	0—11	...	...	...	691	5,160	0—11	8
B.	Mr. G. F. Mathieson ...	597	3,638	0—20½	...	...	...	597	3,638	0—20½	7
C.	Mr. W. D. Wilkins ...	560	3,922	0—24	...	...	...	560	3,922	0—24	8
D.	Mr. W. A. Boulton ...	504	3,807	0—20	...	...	...	504	3,807	0—20	8
E.	Mr. W. J. Wilkins ...	276	993	0—14	...	...	...	276	993	0—14	31
F.	Mr. J. F. Nash ...	...	...	...	145	806	0—24	145	806	0—24	8
G.	Mr. G. Berrie ...	752	5,127	0—19	...	...	...	752	5,127	0—19	9
H.	Mr. W. S. Cole ...	522	3,282	0—21	...	...	...	522	3,282	0—21	8
I.	Mr. P. Ross ...	660	4,482	0—19	...	...	...	660	4,482	0—19	8
K.	Mr. C. C. Warburton ...	613	4,655	0—19	...	...	...	613	4,655	0—19	7
	Total ...	5,175	35,066	0—17	145	806	0—24	5,320	35,872	0—19	8

This return is satisfactory, both as regards the amount of test taken and in the result, showing the general accuracy of the work performed.

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 ...	63	37	46	37	9	...	...	1	3	...	4
B.	Mr. G. F. Mathieson ...	54	46	64	12	18	...	1	...	2	...	3
C.	Mr. W. D. Wilkins ...	54	46	51	11	21	1	...	...	11	1	4
D.	Mr. W. A. Boulton ...	55	45	40	18	18	3	1	...	13	6	1
E.	Mr. W. J. Wilkins ...	55	45	17	21	54	...	...	1	5	...	2
F.	Mr. J. F. Nash ...	58	42	8	34	45	2	...	...	3	4	4
G.	Mr. G. Berrie ...	57	43	55	20	13	3	2	...	4	...	3
H.	Mr. W. S. Cole ...	55	45	43	29	10	1	1	...	9	2	5
I.	Mr. P. Ross ...	53	47	57	14	17	1	2	...	5	1	3
K.	Mr. C. C. Warburton ...	56	44	56	17	15	6	...	1	2	...	3
	Average ...	56	44	44	21	22	2	1	...	6	1	3
	Previous year ...	53	47	49	16	22	1	...	1	6	2	3
	Increase ...	3	...	...	5	...	1	1	...	...	...	...
	Decrease ...	...	3	5	...	...	...	...	1	...	1	...

12. The measurers attached to the E. and I. Classing Establishments were employed during the greater portion of the season in breaking up Survey Nos.

which had under previous existing orders been made of a size now considered unadvisable for either revision or temporary settlement; this correction gave much trouble and took much time, but it was time and trouble well employed, as comparatively small Nos. are absolutely necessary for the success of the present system.

13. There is a slight decrease in the days of measurement, and an increase in those of boundary-mark inspection, which is due to arrears of the latter from last year, which had to be completed in that under report. The travelling days of the C., D. and H. are considerably in excess of those of the other establishments, on account of their having been employed during the first half of the year in Upper Sind and moved to Lower Sind at the commencement of the hot weather; the other differences need no explanation.

14. The survey took the field on the 1st November and closed work on the 15th May, a few men remaining out after the latter date to complete work actually in hand; as noted in last year's report these dates appear to be those most suited to the conditions of this province, and are those which I propose to maintain in future.

15. The health of both officers and men during the past season was good.

#### Classification.

16. During the season under report the Classing Establishments were employed, with the small exception noted in form below, in revising the measurement and collecting information, &c., preparatory to the introduction of temporary settlements into the following talukás :—

Tatta Taluka*	...	...	...	} Karáchi Collectorate.
Mirpur Batoro Taluka	...	...	...	
Kambar Taluka*	...	...	...	} Shikárpur Collectorate.
Raño-dero Taluka*	...	...	...	

The work in those marked (\*) was completed.

17. The work of the two establishments is shewn below :—

Establishment.	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 ...	9	3	485	2,867	4,466	7,333	The figures underlined were regular classification.
			107	26,837	124,175	198,073	322,248	
F.	Mr. J. F. Nash ...	11	120	38,214	178,964	140,146	319,110	
	Total ...	20	230	65,536	306,006	342,685	648,691	
	Previous year ...	16	70	22,662	69,291	115,375	214,666	
	Increase ...	4	160	42,874	236,715	227,310	434,025	

18. The above shows a large increase in every column over the outturn of last year, but the classification work in preparing for temporary and revision settlement differs so much in its nature that the returns of the two years can scarcely fairly be compared.

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

		Nos.	Acres.
Average per man in 1880-81	...	1,872	5,381
" " 1881-82	...	3,277	15,300
Increase	...	1,405	9,919



20. The following shows the test taken by Assistants of the work shown in paragraph 17 above:—

Establishment.	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...	<u>92</u>	<u>492</u>	<u>·38</u>	<u>1·37</u>	19	The figures underlined were test of regular classification.
F.	Mr. J. F. Nash ...	5,073	24,295	...	...		
		5,415	31,889	...	...	14	
	Total ...	10,580	56,676	...	...	16	

21. The next statement shows the distribution of days in the 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.	55	45	65	9	13	1	...	...	8	...	4		
F.	Mr. J. F. Nash ...	58	42	54	17	20	5	...	...	2	1	1		
	Average ...	56½	43½	59½	13	16½	3	...	...	5	½	2½		
	Previous year ...	49	51	45½	10½	28	4½	...	½	4½	2½	4		
	Increase ...	7½	...	14	2½	...	...	...	...	½	...	...		
	Decrease ...	...	7½	...	...	11½	1½	...	½	...	2	1½		

The increase in the percentage of time passed in the field during the present year is due to the exceptionally short average field season of 1880-81, the reason of which was explained in last year's report. The increase and decrease in columns 5 and 7 respectively is due to the correction work this season having



to a great extent been carried out by measurers attached to the Classing Establishment, thus enabling the classers as far as practicable to attend to their own special duties; the remaining differences need no explanation.

#### *Recess Work.*

22. Recess work commenced nominally on the 15th May and closed on the 31st October; but some men were necessarily employed in the field after the first date in completing work in hand, and all had to leave head-quarters some days before the latter date, so as to enable them to start work on the opening day of the field season, November 1st.

23. The whole of the recess work of both Measuring and Classing Establishments was completed by the end of the season, and the survey commenced work for the new field season with no arrears.

#### *Settlement.*

24. During the year under report revised settlements were introduced into the following talukás:—

Lárhána Taluka, Shikárpur Collectorate, with effect from the year 1881-82.

Mánjhand Taluka, Karáchi Collectorate, with effect from the year 1882-83.

25. Temporary settlements were proposed and sanctioned for the following talukás, and the whole of the papers for the same, registers, maps, &c., were furnished to the Mukhtyárkars:—

Kambar Taluka	...	...	} Shikárpur Collectorate, with effect from the
Rato-dero Taluka	...	...	
Tatta Taluka	...	...	Karáchi Collectorate, with effect from the
			year 1882-83.

26. Proposals for the revision settlement of the Nasirabad Taluka were submitted and received the sanction of Government with effect from the year 1883-84: this settlement was not introduced during the year under report.

27. During the year the settlement of the following talukás under provisional settlement was confirmed as shown to each:—

Dádú Taluka, Karáchi Collectorate, for 10 years, from the year 1880-81.

Lárhána Taluka, Shikárpur Collectorate, for 10 years, from the year 1882-83.

#### *Maps and Lithographic Work.*

28. During the year the following maps have been issued to the district authorities:—

Maps prepared at the Photozincographic Office, Poona—

Taluka Mánjhand—Maps of 25 villages.

Hand-made maps—

Taluka Kambar—Maps of 105 villages.

„ Rato-dero	„	57	„
„ Tatta	„	44	„

#### *Cost of the Survey.*

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

	Rs.
Sind survey charges	1,87,765
Share of expenditure on paid labourers chargeable to Government	36,382
Total Cost, Rupees	2,24,147

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

	Rs.
Sanctioned grant	1,94,853
Deduct Sind Survey charges	1,87,765
Saving, Rupees	7,088

31. The unadjusted balance at the commencement of the year was Rs. 3,67,413-12-7. Bills for Rs. 1,74,719-6-0 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 (Rs. 1,32,409-15-1), stood at Rs. 3,25,104-5-8.

32. Since the close of the year, bills for Rs. 64,294-5-11 have been sent in for adjustment, and I hope during the next month or so to be able to send in bills for Rs. 1,32,863 more. I have used every endeavour during the past year to reduce, as much as possible, the very large outstanding account, to which I succeeded on taking charge of this office, and after submission of the bills last referred to, with a few exceptions of small amounts, only accounts for tálukás still in hand will remain; these, as formerly explained, cannot be prepared until the tálukás in question are completed.

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

		1880-81.			1881-82.			
		Rs.	a.	p.	Rs.	a.	p.	
Measurement	...	...	0	3	9	0	2	7
Classification	...	...	0	2	1	0	0	11
		<hr/>			<hr/>			
Both Operations	...	...	0	5	10	0	3	6

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

Diván Piniamal, Mukhtyárkar of Lárkhána, during introduction of settlement into that táluka.

Diván Asumal, Mukhtyárkar of Hála	...	} Reported favour- ably of by As- sistants during progress of mea- suring opera- tions.
„ Gurmukhdás, Mukhtyárkar of Jacobabad	...	
„ Mansharam, Mukhtyárkar of Sehwan	...	
„ Partabrái, Mukhtyárkar of Jati	...	
Zamindár Allahbaksh of Lima Junejo in Sijáwal	...	
„ Sobasing, Amil of Nabibaksh Khand in Sijáwal.	...	

I have the honour to be,

Sir,

Your most obedient Servant,

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



## Measurement Progress Statement for the year ending the 31st October 1882, 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 Establishments.	Names of Talukás or other Divisions in which the Establishments were employed.	MEASURE	
	In the districts.	At head-quarters.	Total.	Field Work.			No Field Work, owing to										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.	Total.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	63	37	100	46.53	36.93	8.74	21	..	60	3.30	..	3.69	100	17	Mr. B. G. Gilbert-Cooper	Hála .. .. .	47	8,819
																Total ..	47	8,819
B	54	46	100	64	12	18	..	1	..	2	..	3	100	20	„ G. F. Mathieson	Guni .. .. . Mirpur Batoro .. .. .	48 17	6,779 1,294
																Total ..	65	8,073
C	54	46	100	51	11	21	[1	..	..	11	1	4	100	10½	„ W. D. Wilkins	Sijawal, Shikarpur .. Jathi .. .. .	23 30	5,096 2,141
																Total ..	53	7,237
D	55	45	100	40.45	17.80	18.24	2.83	97	..	12.95	5.48	1.28	100	18½	„ W. A. Boulton	Kambar .. .. . Jacobabad .. .. . Sijawal (Karachi) .. Jathi .. .. .	9 15 6 37	1,909 2,227 623 1,565
																Total ..	67	6,884
E	55	45	100	17	21	54	..	..	1	5	..	2	100	7	„ W. J. Wilkins	Rato-dero .. .. . Tatta .. .. . Maujhand .. .. . Mirpur Batoro .. .. .	51 41 2 5	455 409 20 9
																Total ..	99	893
F	58	42	100	8	34	45	2	..	..	3	4	4	100	15	„ J. F. Nash	Kambar .. .. .	118	1,716
																Total ..	118	1,716
G	57	43	100	55	20	16	3	2	..	4	..	3	100	18	„ G. Berrie	Guni .. .. . Mirpur Batoro .. .. .	41 1	8,278 85
																Total ..	42	8,363
H	55	45	100	43	20	10	1	1	..	9	2	5	100	16	„ W. S. Cole	Rato-dero .. .. . Kambar .. .. . Schwan .. .. . Jathi .. .. .	14 .. 5 13	2,290 46 2,698 1,379
																Total ..	32	6,413
I	53	47	100	57	14	17	1	2	..	4½	1½	3	100	16½	„ P. Ross	Guni .. .. . Tatta .. .. . Mirpur Batoro .. .. .	45 2 2	7,563 61 157
																Total ..	51	7,781
K	55.50	44.50	100	55.78	17.20	14.94	5.59	31	50	2.45	2.4	2.89	100	17½	„ C. C. Warburton	Hála .. .. . Maujhand .. .. .	42 2	8,487 360
																Total ..	44	8,847
																Grand Total ..	618	64,526



1.

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 amble 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
55,940	65,325	57,254	122,579	47	691	5,160	A. g. 0 11	..	..	A. g. ..	691	5,160	A. g. 0 11	Rs. a. p. ..	
55,940	65,325	57,254	122,579	47	691	5,160	0 11	..	..	..	691	5,160	0 11	0 2 9	
67,731 12,017	41,238 5,718	131,495 36,584	172,733 42,302	46 17	513 84	3,231 407	0 20 0 21	.. ..	.. ..	.. ..	513 84	3,231 407	0 20 0 21	.. ..	
80,643	46,956	168,079	215,035	63	597	3,638	0 20 1/2	..	..	..	597	3,638	0 20 1/2	0 1 10	
43,872 19,093	36,764 10,691	21,090 70,447	57,854 81,138	23 30	381 179	2,874 1,048	0 23 0 26	.. ..	.. ..	.. ..	381 179	2,874 1,048	0 23 0 26	.. ..	
63,965	47,455	91,537	138,992	53	560	3,922	0 24	..	..	..	560	3,922	0 24	0 2 2	
21,659 13,449 6,438 13,157	16,090 17,016 3,115 7,911	12,773 17,057 18,186 114,527	28,863 34,073 21,301 122,438	9 15 6 36	152 177 47 128	1,393 1,483 253 678	0 20 0 19 0 25 0 22	.. .. .. ..	.. .. .. ..	.. .. .. ..	152 177 47 128	1,393 1,483 253 678	0 20 0 19 0 25 0 22	.. .. .. ..	
54,703	44,132	162,543	206,675	66	504	3,807	0 20	..	..	..	504	3,807	0 20	0 2 1	
3,559 2,519 119 45	1,860 1,493 88 45	.. .. .. ..	1,860 1,493 88 45	40 24 .. ..	168 108 .. ..	579 414 .. ..	0 15 0 13 .. ..	.. .. .. ..	.. .. .. ..	.. .. .. ..	168 108 .. ..	579 414 .. ..	0 15 0 13 .. ..	.. .. .. ..	
6,242	3,495	..	3,495	64	276	993	0 14	..	..	..	276	993	0 14	1 15 7	
15,356	4,861	722	5,583	28	..	..	..	145	806	0 24	145	806	0 24	..	
15,356	4,861	722	5,583	28	..	..	..	145	806	0 24	145	806	0 24	1 8 4	
76,181 939	45,934 393	54,581 2,924	100,515 3,317	40 1	745 7	5,092 34	0 19 0 29	.. ..	.. ..	.. ..	745 7	5,092 34	0 19 0 29	.. ..	
77,120	46,327	57,505	103,932	41	752	5,127	0 19	..	..	..	752	5,127	0 19	0 3 6	
19,876 314 8,736 10,969	11,489 413 15,302 7,822	24,594 .. 19,101 30,701	36,096 413 34,403 38,523	14 .. 5 13	184 4 223 111	1,161 32 1,402 687	0 23 0 28 0 19 0 18	.. .. .. ..	.. .. .. ..	.. .. .. ..	184 4 223 111	1,161 32 1,402 687	0 23 0 28 0 19 0 18	.. .. .. ..	
39,895	35,026	74,896	109,422	32	522	3,282	0 21	..	..	..	522	3,282	0 21	0 3 2	
60,541 319 1,684	45,800 314 886	73,154 23,021 1,930	118,954 23,935 2,316	45 1 3	635 5 20	4,349 20 113	0 19 0 15 0 17	.. .. ..	.. .. ..	.. .. ..	635 5 20	4,349 20 113	0 19 0 15 0 17	.. .. ..	
62,544	47,000	98,705	145,705	49	660	4,482	0 19	..	..	..	660	4,482	0 19	0 2 2	
43,866 2,129	61,732 2,027	52,961 3,773	114,693 5,800	36 2	595 18	4,563 92	0 19 0 13	.. ..	.. ..	.. ..	595 18	4,563 92	0 19 0 13	.. ..	
45,795	63,759	56,734	120,493	38	613	4,655	0 19	..	..	..	613	4,655	0 19	0 2 4	
5,01,208	4,04,335	7,05,475	1,171,811	481	5,175	35,066	0 17	145	806	0 24	5,320	35,872	0 19	0 2 7	

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

No. 2.

*Statement for the Sind Revenue Survey Department, exhibiting the Amount of Discrepancy between the Test and Original Measurements of all the Fields entered in Columns 25 to 33 of Statement No. 1, as tested during the year ending the 31st October 1882.*

Distinguishing Letter of Establishment.	Name of Officers who superintended the Establishment.	Names of Talukás measured.	Total Number of Fields tested.	NUMBER OF FIELDS IN WHICH THE DIFFERENCE PER CENT. BETWEEN ORIGINAL AND TEST MEASUREMENT DID NOT EXCEED															
				1 per cent.	2 per cent.	3 per cent.	4 per cent.	5 per cent.	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.	23 per cent.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.	Mr. B. G. Gilbert-Cooper...	Hála ... ..	691	689	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	691	689	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
B.	Mr. G. F. Mathieson ...	Guni ... ..	513	445	50	14	3	...	1	...	...	...	...	...	...	...	...	...	...
		Mirpur Batoro ...	84	75	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	597	520	59	14	3	...	1	...	...	...	...	...	...	...	...	...	...
C.	Mr. W. D. Wilkins ...	Sijáwal (Shikárpur) ...	381	374	4	2	...	...	...	...	...	1	...	...	...	...	...	...	...
		Jathi ... ..	179	161	15	3	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	560	535	19	5	...	...	...	...	...	1	...	...	...	...	...	...	...
D.	Mr. W. A. Boulton ...	Kambar... ..	152	133	17	2	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jacobabad ... ..	177	154	18	5	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sijáwal (Karáchi) ...	47	35	8	4	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jathi ... ..	128	103	18	7	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	504	425	61	18	...	...	...	...	...	...	...	...	...	...	...	...	...
E.	Mr. W. J. Wilkins ...	Rato-dero ... ..	168	158	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...
		Tatta ... ..	108	106	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total ...	276	264	11	1	...	...	...	...	...	...	...	...	...	...	...	...	...



F.	Native Testers	...	Kambar...	...	145	127	12	6	...	...	...	...	...	...	...	...	...	...	...	...
			Total	...	145	127	12	6	...	...	...	...	...	...	...	...	...	...	...	...
G.	Mr. Berrie	...	Guni	...	670	594	60	12	3	1	...	...	...	...	...	...	...	...	...	...
			Mirpur Batoro...	...	7	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mr. C. E. Biddulph	...	Guni	...	75	64	8	2	...	1	...	...	...	...	...	...	...	...	...	...
			Total	...	752	664	69	14	3	2	...	...	...	...	...	...	...	...	...	...
H.	Mr. W. S. Cole	...	Rato-dero	...	79	73	4	1	1	...	...	...	...	...	...	...	...	...	...	...
			Kambar...	...	4	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...
			Sehwan	...	154	129	17	4	3	1	...	...	...	...	...	...	...	...	...	...
			Jathi	...	33	26	6	1	...	...	...	...	...	...	...	...	...	...	...	...
	Mr. C. F. Erskine	...	Rato-dero	...	105	92	10	2	...	...	...	...	...	...	...	...	...	...	...	1
			Sehwan	...	69	66	3	...	...	...	...	...	...	...	...	...	...	...	...	...
			Jathi	...	78	73	4	1	...	...	...	...	...	...	...	...	...	...	...	...
			Total	...	522	462	44	10	4	1	...	...	...	...	...	...	...	...	...	1
I.	Mr. P. Ross	...	Guni	...	543	489	43	7	3	1	...	...	...	...	...	...	...	...	...	...
			Tatta	...	5	4	...	1	...	...	...	...	...	...	...	...	...	...	...	...
			Mirpur Batoro...	...	20	18	2	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mr. C. E. Biddulph	...	Guni	...	92	82	10	...	...	...	...	...	...	...	...	...	...	...	...	...
			Total	...	660	593	55	8	3	1	...	...	...	...	...	...	...	...	...	...
K.	Mr. C. C. Warburton	...	Hala	...	595	538	47	2	3	3	1	...	...	...	1	...	...	...	...	...
			Manjhand	...	18	17	1	...	...	...	...	...	...	...	...	...	...	...	...	...
			Total	...	613	555	48	2	3	3	1	...	...	...	1	...	...	...	...	...
			Grand Total	...	5,320	4,834	379	79	16	7	2	...	...	1	1	...	...	...	...	1

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

## No. 3.

*Field Boundary Mark Statement for the year ending 31st October 1882, 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
Classing.	A Mr. B. G. Gilbert-Cooper ...	47	...	46	19	28	28	19	Stones were not procurable to complete the demarcation of villages in columns 6 & 9. 18 villages in excess in column 5 are the arrears of last year completed this year.
	B Mr. G. F. Mathieson ...	65	53	12	...	...	83	...	Arrears of 18 villages of last year of the A. Establishment completed this year by this establishment.
	C Mr. W. D. Wilkins ...	51	37	33	...	16	51	...	Arrears of last year completed this year. The accounts have been prepared by the F. Establishment.
	D Mr. W. A. Boulton ...	67	56	35	...	19	67	...	Do. do.
	E Mr. W. J. Wilkins ...	(99)	...	...	...	...	...	...	All work connected with these villages was completed, but as they have already been shown in last year's work, columns 4 to 9 are left blank. The Black figure in column 8 shows the arrears of C., D. & H. Establishments of last year completed this year by this establishment.
	F Mr. J. F. Nash ...	(118)	...	*5	...	...	63	...	*Arrears of last year of H. establishment completed this year by this establishment.
	G Mr. G. Berrie ...	42	13	29	...	31	42	...	
	H Mr. W. S. Cole ...	32	...	47	...	25	32	...	Out of the 20 villages in arrears of last year, 15 completed this year and the remaining 5 by the F. Establishment.
	I Mr. P. Ross ...	50	37	22	...	10	59	...	Arrears of 9 villages of last year completed this year.
	K Mr. C. C. Warburton ...	44	10	26	8	26	36	8	Stones were not procurable to complete the demarcation of villages in columns 6 and 9.
	Total ...	615	206	255	27	155	461	27	

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



*Monsoon Office Work Progress Statement for the year ending the 31st October 1882 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 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 Districts.	Village Maps.		Examination and Correction of Field-books and Papers prepared in the District.	Village Maps.		
				Examination and correction of rough original.	Preparation or correct fair copies.		Examination and correction of rough original.	Preparation of correct fair copies.	
1	2	3	4	5	6	7	8	9	10
Classing.	A Mr. B. G. Gilbert-Cooper ... ..	47	47	47	28	...	...	19	Maps of 19 villages in column 9 cannot be completed until stones are put up in these villages.
	B Mr. G. F. Mathieson ... ..	65	65	65	65	...	...	...	
	C Mr. W. D. Wilkins ... ..	51	51	51	51	...	...	...	
	D Mr. W. A. Boulton ... ..	67	67	67	67	...	...	...	
	E Mr. W. J. Wilkins ... ..	(99)	...	...	...	...	...	...	
	F Mr. J. F. Nash ... ..	(118)	...	...	...	...	...	...	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 ... ..	42	42	42	42	...	...	...	
	H Mr. W. S. Cole ... ..	32	32	32	32	...	...	...	
	I Mr. P. Ross ... ..	50	50	50	50	...	...	...	
	K Mr. L. W. Seymour ... ..	44	44	44	36	...	..	8	
Total ... ..		615	398	398	371	...	...	27	Maps of 8 villages in column 9 cannot be completed until stones are put up in these villages.

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

*Classification Progress Statement for the Year ending the 31st October 1882, for the Sind Revenue Survey Department, under the Superintendence of Lieutenant-Colonel  
J. W. M. Anderson, Superintendent of Sind Revenue Survey.*

Distinguishing Letter of Establishment.				PERCENTAGE OF THE WHOLE YEAR FOR WHICH EACH ESTABLISHMENT WAS EMPLOYED.			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.	NUMBER 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.																																																																																																																																																																																																																																																																	
1	2	3	4	Field Work.			No Field Work, owing to							15	16	17			18	19	20	21	22	23	By European Officers.			By Native Testers.			Total.																																																																																																																																																																																																																																																																								
				In the districts.	At head-quarters.	Total.	Ordinary classification.	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.	Total.	Average number of Classes employed during the Working Season.	Villages.	Fields.	Arable Acres.	Unarable Acres.	Total Acres.	Villages.	Fields.				Average Difference of Rate per Field between Original and Test Classification.	Fields.	Average Difference of Rate per Field between Original and Test Classification.	Fields.	Average Difference of Rate per Field between Original and Test Classification.	Fields.	Average Difference of Rate per Field between Original and Test Classification.	Fields.	Average Difference of Rate per Field between Original and Test Classification.																																																																																																																																																																																																																																																								
																																			Classification of soil.	Classification of water.												Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	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Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.	Classification of soil.	Classification of water.

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 to 38 of Statement No. 5, as tested during the year ending the 31st October 1882.*

Distinguishing Letter of Establishment.	Name of Officer who superintended the Establishment.	Name of Tāluka classified.	Number of Fields submitted to Test.		NUMBER OF FIELDS IN WHICH THE DIFFERENCE BETWEEN ORIGINAL AND TEST CLASSIFICATION WAS																					
					Rs. a. p. 0 0 0		Rs. a. p. 0 0 1 to 0 0 6		Rs. a. p. 0 0 7 to 0 1 0		Rs. a. p. 0 1 1 to 0 1 6		Rs. a. p. 0 1 7 to 0 2 0		Rs. a. p. 0 2 1 to 0 2 6		Rs. a. p. 0 2 7 to 0 3 0		Rs. a. p. 0 3 1 to 0 3 6		Rs. a. p. 0 3 7 to 0 4 0		Rs. a. p. 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. J. Wilkins	{	Sukkur ...	22	22	21	20	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
			Mánjhand ...	70	70	65	65	5	1	...	1	...	...	...	2	...	...	...	1	...	...	...	...	...	...	
			Total ...	92	92	86	85	6	1	...	3	...	...	...	2	...	...	...	1	...	...	...	...	...	...	
			Rato-dero ...	5073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
			Tatta ...																							
F ...	Mr. J. F. Nash	{	Mirpur Batoro ...	5,073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
			Total ...																							
			Total of the E. Establishment...	5,165	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			Kambar ...	5,415	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			Total of the F. Establishment ...	5,415	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Grand Total ...	.....	10,580	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		

The Black figures were test of Regular Classification.

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

No. 7.

*Monsoon Office Work Progress Statement for the year ending the 31st October 1882, for the Classing 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 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 ... ..	110	110	110	...	...	
F.	Mr. J. F. Nash ... ..	118	118	118	...	...	
	Total ...	228	228	228	...	...	

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



*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 1882, by the Sind Revenue Survey Department, under the Superintendence of Lieut.-Col. J. W. M. Anderson.*

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					Original settlement has not been introduced into these talukas.
	Sehwan ...		52				52		52					
	Dadu ...		59				59		59					
	Mánjhand ...		25				25		25					
	Sijawal ...					30								
	Mirpur ...													
Hyderabad	Tatta ...	Temporary 44			44									Original settlement has not been introduced into these talukas.
	Kandiaro ...		59				59		59					
	Naushahro ...		95				95		95					
	Moro ...		61				61		61					
	Sekrand ...		90				90		90					
	Shahdádpur ...		110				110		110					
	Mirpur Khás ...	35				35		35						
	Hála ...	69				69		69						
	Tando Alahyar ...	57				57		57						
	Hyderabad ...	52				52		52						
	Dero Mohbat ...	62				62		62						
	Guni ...					96								
Shikarpur.	Bágo ...					88								Original settlement has not been introduced into these talukas.
	Badin ...					90								
	Rohri ...		45				45		45					
	Ghotki ...	98				98		98						
	Mirpur ...	81				83		83						
	Ubauro ...	91				91		91						
	Kakar ...		Temporary 53		53									
	Mehar ...		53											
	Tigar ...		48											
	Lárkhána ...		Revision 66		66		18				48			
	Labdarya (in part) ...		Temporary 34		34									
	Nasirabad ...	53				53		53						
	Kambar ...		Temporary 118		118									
	Sijawal ...	86				86		86						
	Rato-dero ...		Temporary 57		57									
Total	Shikarpur (in part) ...	27				27		27						Maps will be supplied as soon as printed. Maps of 105 villages supplied during the year and of 13 villages after the close of the year.
	Naushahro (in part) ...	69				69		69						
	Sukkur ...		69			69		69						
Total		824	1,108		473	1,086	750	729	679		48			

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

No. 9.

*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 1882 with that for the preceding year.*

Years.	Share of charges on account of Survey Commissioner's Office, &c.		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.	Rs.	Per cent.	
1880-81 ...	3,697	2	15,993	8.4	65,295	34.4	65,257	34.4	7,812	4.1	31,688	16.7	1,89,742	100	
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	

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 Lieutenant-Colonel J. W. M. ANDERSON, from the commencement of Operations until the close of the year ending 31st October 1882.*

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.		
Total of previous years from 1862-63 to 1873-74    ...	13,079,541	0   1   6	6,157,597	0   1   6	0   3   0	1,791,269	
1874-75                    ...	509,334	0   4   0	226,010	0   0   9	0   4   9	148,828	} The cost is inclusive of charges for labourers.
1875-76                    ...	798,679	0   2   5	394,528	0   0   6	0   2   11	141,877	
1876-77                    ...	763,470	0   2   1	698,236	0   0   9	0   2   10	144,257	
1877-78                    ...	371,445	0   5   6	549,967	0   0   5	0   5   11	151,867	} The cost is inclusive of charges for labourers and boundary marks.
1878-79                    ...	466,716	0   3   6	449,026	0   0   4	0   3   10	121,068	
1879-80                    ...	515,017	0   3   10	522,775	0   0   11	0   4   9	153,833	
1880-81                    ...	699,585	0   3   9	214,666	0   2   1	0   5   10	189,742	} The cost is inclusive of charges for labourers.
1881-82                    ...	1,171,811	0   2   7	648,691	0   0   11	0   3   6	224,147	

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

## No. 11.

*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.
KARA CHI.	Kotri ... ..	Revision complete	Revision complete	Revision * complete.
	Sehwan ... ..	" "	" "	" "
	Dádú ... ..	" "	" "	" "
	Mánjhand ... ..	" "	" "	" "
	Tatta ... ..	" "	Temporary	Temporary
	Ghorabari ... ..	Original	.....	.....
	Sákro ... ..	" "	.....	.....
	Sijáwal ... ..	Revision	.....	.....
	Mirpur Batoro ... ..	" "	Temporary in hand	.....
	Jathi ... ..	" in hand	.....	.....
HYDERABAD.	Sháhbandar ... ..	Original complete	.....	.....
	Kandiáro ... ..	Revision complete	Revision complete	Revision complete.
	Naushahro ... ..	" "	" "	" "
	Moro ... ..	" "	" "	" "
	Sakrand ... ..	" "	" "	" "
	Shahdádpur ... ..	" "	" "	" "
	Hála ... ..	" in hand	Original	Original
	Mirpur Khás ... ..	Original complete	" "	" "
	Hyderabad ... ..	" "	" "	" "
	Tando Alahyar ... ..	" "	" "	" "
	Dero Mohbat ... ..	" "	" "	" "
	Guni ... ..	Revision in hand	.....	.....
SHIKÁRPUR.	Bágo ... ..	Original complete	.....	.....
	Badin ... ..	" "	.....	.....
	Sukkur ... ..	Revision complete	Revision complete...	Revision complete.
	Kakar ... ..	" "	Temporary	Temporary
	Mehar ... ..	" "	" "	" "
	Tigar ... ..	" "	Revision	" "
	Nasirabad ... ..	" "	" "	Original
	Kambar ... ..	" "	Temporary	Temporary
	Lárkhána ... ..	" "	Revision	Revision
	Labdarya ... ..	" "	" "	Temporary
	Rato-dero ... ..	" "	Temporary	" "
	Sijáwal ... ..	" "	Original	" "
	Naushahro Abro ... ..	Original complete	" "	Original 3rd
	Shikárpur ... ..	" "	" "	" 1st
FRONTIER DISTRICTS.	Rohri ... ..	Revision	Revision	Revision
	Ghotki ... ..	Original	Original	Original
	Mirpur ... ..	" "	" "	" "
THAR AND PA'RKAR.	Ubauro ... ..	" "	" "	" "
	Jacobabad ... ..	Revision in hand	.....	.....
	Thul ... ..	Original partly in hand	.....	.....
	Kashmor ... ..	" "	.....	.....
	Sánghar ... ..	Original complete	.....	.....
	Khipra ... ..	" "	.....	.....
	Umarkot ... ..	" "	.....	.....
	Cháchra ... ..	.....	.....	.....
	Mitti ... ..	.....	.....	.....
	Dipla ... ..	.....	.....	.....
	Nagar ... ..	.....	.....	.....

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



*Balance Sheet showing the Amount and Particulars of Unadjusted Advances as the same stood on the 31st October 1882, for the Sind Revenue Survey Department, under the Superintendence of Lieutenant-Colonel J. W. M. Anderson, Superintendent, Sind Revenue Survey.*

Advances and Receipts.	Account.	BALANCE.		REMARKS.
		Remaining at Debit.	Remaining at Credit.	
		Rs. a. p.	Rs. a. p.	
Unadjusted.	Collector of Karachi ... ..	60,295 4 4	.....	
	Do. of Hyderabad ... ..	75,532 7 10	.....	
	Do. of Shikarpur ... ..	1,89,276 9 6	.....	
	Miscellaneous Sources ... ..	.....	.....	
	Total ...	3,25,104 5 8	.....	
Distribution of Unadjusted Advances and Receipts.	Expended on measurement and classification of the Manjhand Taluka...	204 4 1	.....	Bills for these amounts will be submitted during the current year.
	Do. on boundary marks in do. ...	611 3 9	.....	
	Do. do. in the Badin Taluka ...	3,521 0 9	.....	
	Do. do. in the Naushahro Abro Taluka...	1,000 0 0	.....	
	Do. do. in the Shikarpur Taluka...	1,000 0 0	.....	Bills for these amounts cannot be submitted until temporary or revised settlements are introduced into these talukas.
	Stones in the charge of the Mukhtiarkar of Kakar ...	587 5 6	.....	Bills for this amount cannot be submitted until the stones are utilized in some other talukas.
	Expended on boundary marks in the Shahdādpur Taluka ...	341 1 0	.....	Bills for this amount will be submitted during the current year.
	Do. on measurement of the Hala Taluka ...	10,909 5 4	.....	Bills for these amounts cannot be submitted until a temporary or revised settlement is introduced into this taluka.
	Do. on boundary marks in do. ...	23,267 9 2	.....	
	Do. on measurement and classification of the Nasirabad Taluka...	12,449 13 2	.....	Bills for these amounts will be submitted during the current year.
	Do. on boundary marks in do. ...	36,903 12 3	.....	
	Do. on measurement of the Jacobabad Taluka...	1,585 9 7	.....	Bills for these amounts cannot be submitted until a temporary or revised settlement is introduced into this taluka.
	Do. on boundary marks in do. ...	3,471 10 0	.....	
	Do. on measurement and classification of the Kambar Taluka ...	20,782 5 5	.....	Of these amounts bills for Rs. 49,412-6-11 have since been sent in; bills for the balance will be submitted during the current year.
	Do. on boundary marks in do. ...	41,510 3 8	.....	
	Do. on measurement and classification of the Rato-dero Taluka...	10,077 6 0	.....	Of these amounts bills for Rs. 14,881-15-0 have since been submitted. Bills for the balance will be submitted during the current year.
	Do. on boundary marks in do. ...	10,005 15 2	.....	
	Do. on measurement of the Sehwan Taluka ...	1,517 4 4	.....	Bills for these amounts cannot be submitted until temporary or revised settlements are introduced into these talukas.
	Do. on boundary marks in do. ...	4,292 8 5	.....	
	Do. do. in the Hyderabad Taluka	1,800 0 0	.....	
	Do. on measurement and classification of the Mehar Taluka ...	9,226 3 0	.....	Bills for these amounts will be submitted during the current year.
	Do. on boundary marks in do. ...	34,376 14 11	.....	
	Do. on measurement of the Sijawal Taluka of Shikarpur Collectorate...	6,495 6 6	.....	Bills for these amounts cannot be submitted until a temporary or revised settlement is introduced into this taluka.
	Do. on boundary marks in do. ...	7,918 11 11	.....	
	Do. on measurement and classification of the Tatta Taluka ...	8,064 11 11	.....	Bills for these amounts will be submitted during the current year.
	Do. on boundary marks in do. ...	9,354 13 5	.....	
	Do. on measurement of the Sijawal Taluka of the Karachi Collectorate.	6,355 4 6	.....	Bills for these amounts cannot be submitted until temporary settlements are introduced into these talukas.
	Do. on boundary marks in do. ...	2,061 15 1	.....	
	Do. on measurement of the Mirpur Batoro Taluka...	8,326 9 0	.....	Bills for these amounts cannot be submitted until temporary settlements are introduced into these talukas.
	Do. on boundary marks in do. ...	1,475 8 3	.....	
	Do. on measurement of the Ghorabari Taluka ...	1,093 2 4	.....	Of these amounts bills for Rs. 6,017-9-11 will be submitted shortly. Bills for the balance cannot be submitted until a temporary or revised settlement is introduced into this taluka.
	Do. on boundary marks in do. ...	657 13 0	.....	
	Do. on measurement of the Guni Taluka ...	17,760 15 1	.....	
	Do. on boundary marks in do. ...	12,184 1 2	.....	
	Do. on measurement of the Jathi Taluka ...	4,874 15 0	.....	Bills for these amounts cannot be submitted until these talukas come under settlement.
	Do. on boundary marks in do. ...	3,892 5 8	.....	
	Value of stones in the charge of Mukhtiarkar of Umar-kot ...	2,500 0 0	.....	
	Do. do. do. of Shābbandar	562 8 0	.....	
	Advanced to Contractor for stones in the Mirpur Sakro Taluka ...	500 0 0	.....	
	Cash in hand with Assistants ... ..	1,506 6 2	.....	
	Do. do. Superintendent ... ..	77 11 2	.....	
	Total ...	3,25,104 5 8	.....	

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 1882.*

Names.	Amount of Salary.	Cause of Dismissal.
None.		

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 1881-82 in the undermentioned Tálukas of the Karáchi, Hyderabad and Shikárpur Collectorates.*

Collectorate.	Names of Talukas.				Revenue Collections prior to Settlement.	Revenue Realiza- tions under Settle- ment in the year 1881-82.
					Rs.	Rs.
Karáchi	{	Dádú	...	R	58,212	1,55,898
		Sehwan	...	R	1,03,760	1,93,360
		Mánjhánd	...	R	14,249	34,781
		Kotri	...	R	10,704	22,723
	Total				1,86,925	4,06,762
Hyderabad	{	Kandiáro	...	R	91,697	1,18,859
		Naushahro	...	R	1,25,204	1,80,868
		Moro	...	R	64,022	99,629
		Sakrand	...	R	57,647	1,13,943
		Hála	...	O	70,962	90,855
		Shahdádpur	...	R	79,707	1,54,255
		Tando Alahyar	...	O	84,556	86,103
		Mirpur Khás	...	O	34,130	51,838
		Hyderabad	...	O	62,141	84,448
		Dero Mohbat	...	O	48,156	58,314
Total				7,18,222	10,39,112	
Shikárpur	{	Kakar	...	T	1,16,838	1,73,583
		Mehar	...	T	1,03,272	1,38,208
		Nasirabad	...	O	1,05,749	1,13,097
		Tigar	...	T	89,715	1,02,964
		Lárhána	...	R	2,18,315	3,47,086
		Labdarya	...	T	82,316	1,24,363
		Kambar	...	O	1,73,604	2,11,535
		Sijáwal	...	O	46,461	49,905
		Rato-dero	...	O	86,999	70,043
		Shikárpur	...	O	28,825	68,077
		Naushahro Abro	...	O	75,520	1,19,401
		Rohri	...	R	62,933	83,358
		Ghotki	...	O	1,37,476	1,17,871
		Mirpur	...	O	77,040	71,990
		Ubauro	...	O	58,455	59,192
		Sukkur	...	R	67,386	1,29,982
Total				15,30,904	19,80,655	
Grand Total				24,36,051	34,26,529	

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

*Remark.*—R signifies tálukas under Revision, T under Temporary, and O under Original Settlement.