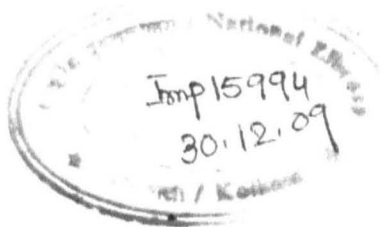


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No. 16 of 1889.

From

H. K. DISNEY, ESQUIRE,  
Superintendent, Sind Revenue Survey.

To

THE COMMISSIONER IN SIND.

SUPERINTENDENT'S OFFICE,  
*Camp Atnah, 9th January 1889.*

SIR,

I have the honor to submit the Annual Progress Report of the Sind Revenue Survey and Settlement Department for the year 1887-88.

2. The following changes and promotions amongst the Gazetted Officers of the Department took place during the year :—

Commissioner in Sind's Notification  
No. 5679, dated 12th Nov. 1887.

Lieut.-Colonel T. M. Ward rejoined from privilege leave on the 9th November 1887 and on the same date resumed charge of his appointment as Acting Superintendent, Sind Survey, from Mr. H. K. Disney who had been appointed to act during his absence.

Government Resolution No. 4377,  
dated 12th July 1887.

Commissioner in Sind's Notification  
No. 6009, dated 12th Dec. 1887.

Mr. W. A. Boulton, Assistant Superintendent, rejoined from privilege leave on the 10th November 1887.

Government Resolution No. 1012,  
dated 14th February 1888.

Mr. G. B. Gilbert-Cooper was promoted from the 3rd to the 2nd grade of Assistant Superintendent from the 12th November 1887.

Government Resolution No. 80,  
dated 15th February 1888.

Colonel J. W. M. Anderson, Superintendent, Sind Revenue Survey, retired from the service on the 23rd March 1888.

Government General Order No. 185,  
dated 13th April 1888.

Lieut.-Colonel Ward having been granted furlough on medical certificate for one year handed over charge of the office of Superintendent, Sind Survey to Mr. Edgerley, C. S., Assistant Commissioner in Sind, on the 3rd April.

Government Resolution No. 2440,  
dated 23rd April 1888.

Mr. Disney, Deputy Superintendent, Poona and Nasik and S. M. C. Survey, who was appointed to succeed Colonel Ward, reported his arrival at Karachi and received charge from Mr. Edgerley on the 4th April 1888. Mr. Disney was subsequently made sub. *pro tem.* Superintendent from the date of being placed in charge.

Government Resolution No. 4767,  
dated 18th July 1888.

Commissioner in Sind's Notification  
No. 2163, dated 20th June 1888.

Mr. Seymour, Assistant Superintendent, rejoined from sick leave on the 10th June 1888.

Government Resolution No. 4056,  
dated 20th June 1888.

Mr. B. G. Gilbert-Cooper, Assistant Superintendent, was transferred to the Deccan Survey, on the 21st June 1888.

Government Resolution No. 4890,  
dated 23rd July 1888.

Mr. W. A. Boulton, Assistant Superintendent, on the 15th October proceeded on furlough to Europe for two years.

Government Resolution No. 4557,  
dated 10th July 1888.

Mr. W. S. Cole, Assistant Superintendent, rejoined from sick-leave on the 24th October, and on the 3rd November 1888 proceeded to Bombay on transfer to the Presidency Survey Department.

3. At the close of the year the strength of the Department stood as under :—

Grade.	Present for duty.	Under Government of India.	On leave.	Total.
Superintendent .....	1	...	1	2
Assist. Settlement Officer.	1	...	...	1
„ Superintendents ...	4	1	1	6
Total...	6	1	2	9

#### Measurement.

4. Original and revision measurement was carried on in the following talukas :—

Karachi Collectorate .....	{ Kotri .....	Revision.
Shikarpur „ .....	{ Sehwan .....	„
„ „ .....	{ Sukkur .....	„
Thar and Parkar District .....	{ Umarkot.....	„
„ „ .....	{ Khipra .....	„
Upper Sind Frontier District .	Thul .....	Original.

The remeasurement of the Kotri and Sukkur Talukas was finished and also of the Umarkot Taluka, with the exception of 5 villages the survey of which was deferred pending the completion in them of canal works which it is expected will largely increase the area available for cultivation.

The Sehwan and Khipra Talukas remained unfinished, and also a portion of the Thul Taluka which is under original survey.

5. The subjoined table shows the work of the year for each Establishment :—

Establishment.	Names of Officers.	Average No. of measurers.	Measurement.					Total acres.	Remarks.
			No. of villages.	Survey Nos.	No. of waslas.	Arable acres.	Un-divided arable & unarable acres.		
1	2	3	4	5	6	7	8	9	10
A	Mr. Gilbert-Cooper ...	26	33	15,035	53,845	1,03,244	1,58,344	2,61,588	Mixed Establishment of classifiers & measurers' classing work also done by this Establishment is shown further on.
C	„ W. D. Wilkins ...	27-25	19	12,841	44,810	96,075	2,42,588	3,38,663	
E	„ J. F. Nash ...	13-50	34	12,960	75,025	52,751	61,544	1,14,295	
F	„ G. F. Mathieson...	14-25	27	8,826	35,394	55,852	44,445	1,00,297	
G	„ G. Berrie...	10	51	14,260	92,672	57,453	99,741	1,57,194	
H	„ W. A. Boulton ...	27	40	12,530	61,010	89,543	92,515	1,82,058	
	Total 1887-88...	118	204	76,452	3,62,756	4,54,918	6,99,177	11,54,095	
	Previous year...	116-42	372	72,314	2,94,865	5,31,930	2,62,540	7,94,470	
	Increase ...	1-58	...	4,138	67,891	...	4,36,637	3,59,625	
	Decrease...	...	168	...	...	77,012	...	...	



The average number of measures employed (118) in this year's operations is thus shown to have been 1.58 more than in 1886-87. The outturn of arable land divided into Survey Numbers is less for the year under report, but on the other hand there is an increase in the amount measured of Survey Numbers and "Waslas" or Trapezia. The large increase in "Waslas" shows that the work this year was of a more intricate character. The area brought to account of undivided arable and unarable land is also largely in excess of that shown for the previous year.

7. The average outturn per man for the year is contrasted with that of the previous year in the statement below :—

	Nos.	Waslas.	Acres.
Area per man measured in 1886-87 ...	621	2,533	4,569
" " " 1887-88 ...	648	3,074	3,855
Increase.....	27	541	...
Decrease .....	...	...	714

The cause of the difference in the comparative acreage outturn, *viz.*, the excess this year of Survey Numbers and Waslas, is noticed in the preceding paragraph.

8. The subjoined statement is an abstract of the measuring test for the year :—

Establishment.	Superintending Officers.	Tested by Assistants.			Tested by native testers.			Total test.			Percentage of measurement as regards numbers.	Remarks.
		Survey Nos.	Acres.	Average error.	Survey Nos.	Acres.	Average error.	Survey Nos.	Acres.	Average error.		
1	2	3	4	5	6	7	8	9	10	11	12	13
				A. G.			A. G.			A. G.		
A.	Mr. Gilbert-Cooper.	910	6,589	0 14	...	...	...	910	6,589	0 14	6	
C.	" W. D. Wilkins.	917	7,277	0 17	...	...	...	917	7,277	0 17	7	
E.	" J. F. Nash.....	205	1,039	0 20	1,209	6,062	0 18	1,414	7,101	0 19	11	
F.	" Mathieson .....	325	2,288	0 14	588	3,490	0 14	913	5,778	0 14	10	
G.	" G. Berrie .....	248	1,046	0 25	1,408	6,689	0 21	1,656	7,735	0 22	12	
H.	" W. A. Boulton..	654	4,242	0 17	...	...	...	654	4,242	0 17	5	
	Total...	3,259	22,481	0 18	3,205	16,241	0 18	6,464	38,722	0 18	8	

The work of each Establishment has been sufficiently tested and the standard of accuracy is also satisfactory.

9. Appendix No. 2 gives in detail the result of the test of each Establishment, and shows that out of a total of 6,464 fields submitted to test, the difference in area between original and test measurement exceeded 3 per cent. in 18 Survey Numbers only.

10. The distribution of days in each Establishment is given below, and the average result under each head is contrasted with that of the previous year :—

Establishment.	Superintending Officers.	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.	Indoor work.	Leave, holidays, &c.
1	2	3	4	5	6	7	8	9	10	11	12	13
A.	Mr. Gilbert-Cooper .....	58	42	61	11	17	1	...	2	6	...	2
C.	" Wilkins .....	56	44	57	10	20	...	1	2	6	...	4
E.	" Nash .....	58	42	66	5	19	1	...	2	5	2	...
F.	" Mathieson .....	55	45	59	6	26	...	...	1	6	...	2
G.	" Berrie .....	56	44	61	...	29	1	...	3	5	...	1
H.	" Boulton .....	57	43	54	10	20	...	1	2	13	...	...
	Average...	57	43	60	7	22	1	...	2	7	...	1
	Previous year...	56	44	59	6	24	...	...	...	7	...	4
	Increase...	1	...	1	1	...	1	...	2	...	...	...
	Decrease ..	...	1	...	...	2	...	...	...	...	...	3

The distribution of working days is satisfactory and calls for no special remark.

#### Classification.

11. Three Classing Establishments were employed during the season in preparing the following talukas for the introduction of Irrigational Settlement :—

Hyderabad Collectorate .....	{ Tando Allahyar.
Shikarpur .....	{ Mirpur Khas.
Karachi .....	{ Sukkur.
	{ Sehwan.
	{ Kotri.
	{ Malir lands.

Classification work in the Mirpur Khas and Sukkur Talukas was finished during the Field Season and in Kotri and the Malir lands during the Recess. The work in Sehwan and Tando Allahyar is still in progress.

12. In the abstract given below the work of the Classing Establishments for the year under report is contrasted with that of the previous year :—

Establishments.	Officers in charge.	Average No. of Classers.	CLASSIFICATION.					Remarks
			Villages.	Survey Nos.	Arable Acres.	Undivided arable and unarable Acres.	Total Acres.	
1	2	3	4	5	6	7	8	9
E.	Mr. J. F. Nash... ..	10.85	43	13,784	56,134	82,629	1,38,763	
F.	Mr. G. F. Mathieson ... ..	16.96	135	31,355	1,46,868	2,65,309	4,12,177	
G.	Mr. G. Berrie ... ..	16	58	17,787	75,098	1,01,763	1,76,861	
	Total...	43.81	236	62,926	2,78,100	4,49,701	7,27,801	
	Previous year...	56.14	538	91,299	4,89,531	11,36,299	16,25,830	
	Increase...	...	...	...	...	...	...	
	Decrease...	12.33	302	28,373	2,11,431	6,86,598	8,98,029	

To account for the large difference in outturn in the two years, it must be explained that, from the opening of the last working season, survey operations with a view to the introduction of Irrigational Settlements were begun in talukas already under Revision Settlement. In the talukas hitherto dealt with, which were either under original Settlement or had not been brought under a Survey Settlement, the operations of measuring and classing were kept quite distinct. The measuring work was done by the measuring Establishments and where such work had to be supplemented at the time of classification, it was done by measurers attached for the purpose to the Classing Establishments. The classers were employed exclusively on classing work, but last season when the already revised talukas came to be re-surveyed, the plan was adopted of having both the measuring and classing work done by one and the same Establishment, with the result that the outturn of classification work is much below that of previous years. The classers of the F. Establishment, the outturn of which exceeds that of the others, worked on the revision survey of a taluka still under Original Settlement and were until about the 15th of March employed exclusively on classing work. From the 15th of March the F. Establishment was detached to assist in measuring the Khipra Taluka and thenceforward did measuring work only. The measuring work done by the Classers is shown under para. 5, and considering that it was to them unaccustomed work, the outturn is on the whole satisfactory.

13. The average work of each classer in the field is contrasted below for the last 2 years :—

	Nos.	Acres.
Average per man for 1886-87 .....	1,751	31,182
"      "      1887-88 .....	1,436	16,613
Decrease .....	315	14,569

The general decrease in classification outturn has already been noticed and the same cause affects the individual average.

14. The following table gives the test taken by the Assistants of the season's work :—

Establishments.	Officers in charge.	Amount of Test.		Percentage of classification test as regards Nos.	Remarks.
		Survey Nos.	Acres.		
1	2	3	4	5	6
E.	Mr. J. F. Nash ... ..	2,672	12,461	19	
F.	„ G. F. Mathieson ... ..	4,896	34,336	16	
G.	„ G. Berrie ... ..	2,428	11,422	14	
	Total ... ..	9,996	58,219	16	

The detail of the test is given in Appendix 6.

15. The subjoined statement, which calls for no special remark, shows the distribution of days in the Classing Establishments and the average under each head contrasted with that of the previous year :—



Establishments.	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.	Indoor work.	Leave, holidays, &c.		
1	2.	3.	4.	5.	6.	7.	8.	9.	10	11	12	13	14	
E.	Mr. Nash ... ..	58	42	29	10	41	11	...	4	2	...	3		
F.	„ Mathieson ... ..	55	45	59	6	24	...	...	3	5	...	3		
G.	„ Berrie ... ..	56	44	24	11	52	2	...	3	5	...	3		
	Average...	56	44	38	9	39	4	...	3	4	...	3		
	Previous year...	56	44	44	9	38	...	...	...	5	1	3		
	Increase...	...	...	...	...	1	4	...	3	...	...	...		
	Decrease...	...	...	6	...	...	...	...	...	1	1	...		

#### *Recess work.*

16. The whole of the recess work for the year was completed within the recess season, which as usual lasted from about the 15th May to 31st October.

#### *Settlement.*

17. During the year under report sanction was received for the Irrigational Settlement of the Ghorabari Taluka, proposals for which had been submitted during the previous year. The new rates were introduced from the year 1888-89. Proposals were submitted for the Irrigational Settlement of the talukas shown below :—

Karachi Collectorate.....Mirpur Sakro.  
 Shikarpur „ .....Sukkur.  
 Hyderabad „ .....Mirpur Khas.

The new rates sanctioned for the Mirpur Sakro Taluka were introduced from the Revenue year 1888-89, the proposals for the Sukkur and Mirpur Khas Talukas were returned for further consideration and have since been resubmitted to you.

18. Consequent on the introduction of Irrigational Settlement, proposals were submitted during the year, in the usual form, for the revision of charges for Tapadars in the undermentioned talukas :—

Karachi Collectorate ..... { Ghorabari.  
 ..... { Mirpur Sakro.

These proposals are still in abeyance pending result of the reference to Government referred to in your No. 4152, dated 20th November 1888.

*Maps, Lithographic Work, &c.*

19. The Lithographic Press at Hyderabad was, under the orders conveyed in your No. 2134, dated 16th June 1888, which were subsequently sanctioned by Government Resolution No. 6663, dated 5th October 1888, abolished from 1st July 1888.

20. During the year the following maps which for the most part were printed by the Photozincographic Department at Poona, were issued to the Revenue authorities.

Karachi Collectorate .....	{ Ghorabari .....	Maps of 67 villages.
	{ Mirpur Sakro .....	" " 9 "
Hyderabad ,, .....	Tando Bago .....	" " 86 "
Shikarpur ,, .....	Mirpur Mathelo ...	" " 108 "

Besides the above, hand drawn copies of maps, as shewn below, were prepared and issued to Mukhtyarkars for immediate use pending the issue of printed maps :—

Karachi Collectorate .....	{ Ghorabari .....	Maps of 84 villages.
	{ Mirpur Sakro .....	" " 76 "
Thar and Parkar District .....	Umarkot .....	" " 77 "
Shikarpur Collectorate .....	Sukkur .....	" " 54 "

21. The following Taluka Maps were prepared in this office and 25 copies of each were photozincographed at Poona. Copies have been issued to all offices in which they were required.

Karachi Collectorate .....	{ Ghorabari.
	{ Mirpur Sakro.
	{ Jati.
	{ Shahbandar.
	{ Sehwan.
	{ Karachi Kohistan.
Hyderabad ,, .....	{ Badin.
	{ Tando Bago.
	{ Dero Mohbat.

22. Copies of village registers in the new form have, under the arrangement sanctioned in the Government Resolution before referred to, No. 6668, dated 5th October 1888, been prepared in the quantities and for the talukas below shown :—

Karachi Collectorate .....	{ Ghorabari .....	168 Copies.
	{ Mirpur Sakro .....	152 "
	{ Tando Bago .....	426 "
Hyderabad ,, .....	{ Dero Mohbat .....	444 "
	{ Hyderabad .....	252 "
	{ Guni .....	184 "
Shikarpur ,, .....	Nasirabad .....	56 "

*Cost of Survey.*

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

	Rs.
Sind Survey charges .....	1,45,922
Share of expenditure on paid labourers chargeable to Government.	28,314
<b>Total Rupees...</b>	<b>1,74,236</b>



24. The expenditure incurred was within the sanctioned grant as shown below :—

Sanctioned grant.....	1,71,665
Sind Survey charges .....	1,45,922
	<hr/>
Balance Rupees...	25,743

25. The unadjusted balance at the commencement of the year under report was Rs. 2,72,720-9-1. Bills for Rs. 2,99,053-6-2 have been sent in during the course of the year; and on the 31st October 1888 the balance against the Department, taking into account the advances, amounting to Rs. 96,533-14-6, received during the current year, stood at Rs. 70,201-1-5. Bills submitted since the 31st of October have reduced the balance against this Department to Rs. 20,322-6-2 which amount is in course of adjustment. The Accountant General in his letter to Government referred to in Government Resolution No. 3544, dated 24th November 1888, has given full information regarding the system under which the speedy adjustment of advances will in future be provided for.

26. The cost per acre for the present year as compared with that for the previous year is shown below :—

	1886-87.	1887-88.
	Rs. a. p.	Rs. a. p.
Measurement .....	0 2 6	0 1 8
Classification .....	0 0 7	0 1 2
	<hr/>	<hr/>
Both Operations	0 3 1	0 2 10

The cost for both operations this year is thus 3 pies per acre less than for last year, but it will be seen from the abstract given under para. 5, that the area not surveyed in detail, shown as "undivided arable and unarable" land, is this year much in excess of that returned in 1886-87.

27. The usual appendices are attached to this report and they give in full detail all necessary information regarding the year's work.

28. A sketch map is hereto attached showing in different colours

Land under revision Settlement.....	Red.	the progress of the Sind Revenue Survey up to the close of the year under report.
Land under Irrigational Settlement for which proposals have been submitted.	Blue.	
Land for which Irrigational Settlement proposals have not yet been made.	Yellow.	
Land in the Thar and Parkar District measured but not settled by this Department.	Green.	

29. In para. 7 of their Resolution on the Progress Report of this Survey for 1886-87, Government desired that, in the report submitted for this year, precise details should be furnished of the extent of the work still to be done in this province. I would ask to be allowed to submit the report called for in June next, by which time the result of this season's work will be known and I shall be in a position to deal exhaustively with the subject. The steps which have already been taken, under your instructions, towards the reduction of Survey Establishments in Sind, have been noticed in Government Resolution No. 6668, dated 5th October 1888. I am able now to state that Survey operations with a view to the Irrigational Settlement of Talukas already under Revision Survey, can in future be much curtailed provided the old work is as satisfactory as that which I have recently tested in the Sakrand Taluka. I find that the work of the former Survey in

Sakrand can be accepted, subject to the alterations in the boundaries of Survey Numbers rendered necessary by changes in cultivation and occupation and by the extension of canals and roads. The work in Sakrand is being restricted to such alterations and to the division into Survey Numbers and demarcation of land taken up for cultivation since the last Settlement. The effect on the outturn of the current season of this general confirmation of the old work in Sakrand will be very marked, and I am about to submit to you proposals as to the changes in the programme sanctioned for this season, which the more rapid progress of the work calls for. There is every reason to expect that a further considerable reduction in the cost of Survey Establishments in Sind can be effected before the beginning of the next field season.

30. In conclusion, I beg to state that the revenue authorities of this province have given all due assistance in the survey operations of the year under report.

I have the honor to be,

Sir,

Your most obedient Servant,

H. K. DISNEY,  
Superintendent, Sind Revenue Survey.



REVENUE DEPARTMENT.

*Commissioner's Office, Karachi, dated 13th April 1889.*

Submitted to Government.

From the 9th of November 1887 to the 3rd April 1888, the Department was under the superintendence of Lieut.-Colonel Ward. During the rest of the year, the Department was under Mr. H. K. Disney. Since the latter officer assumed charge, the work of the Department has progressed most satisfactorily.

2. Proposals for the introduction of Irrigational Settlements into the Talukas of Ghorabari and Mirpur Sakro were duly sanctioned by Government, and the new rates have been introduced in these talukas from the year 1888-89. The orders of Government sanctioning the proposals for the introduction of the new rates into the Sukkur Taluka (submitted to Government with this office No. 3351 of the 22nd September 1888) are still awaited;— and the proposed Settlement for the Mirpur Khas Taluka has not yet been submitted to Government pending decision with regard to the contemplated territorial readjustment of the limits of the Thar and Parkar and Hyderabad Districts. The question is now under the Commissioner's consideration, and the rectification of the boundary will probably result in the abolition of Mirpur Khas as a separate taluka—part being added to Thar and Parkar—and the rest being incorporated with the adjoining talukas of the Hyderabad Collectorate.

3. The proposals alluded to in para. 18 of Mr. Disney's report for the revision of tapadars' charges in Talukas Ghorabari and Mirpur Sakro of the Karachi Collectorate have been returned to the Collector for revision in consequence of the recent orders of Government deciding that the entire cost of the Village Revenue Establishments must be paid for from the Village Cess Fund without the aid of any contribution from Provincial Revenues. The matter is now engaging the attention of the Commissioner, who will address Government with regard to the whole scheme for Village Establishments later on.

4. There is a satisfactory decrease in the average cost of combined measurement and classification per acre in consequence of the classing and measuring work having been done by one and the same establishments in some instances. The measuring work done by the classers, making allowance for the fact that they were unaccustomed to the work, seems to have been on the whole satisfactory.

5. The cost of Survey operations during the year under review shows a decrease of Rs. 11,457 as compared with the cost in the previous year. The expenditure incurred was Rs. 25,743 below the sanctioned grant, and there is also a satisfactory reduction in the amount of unadjusted balances.

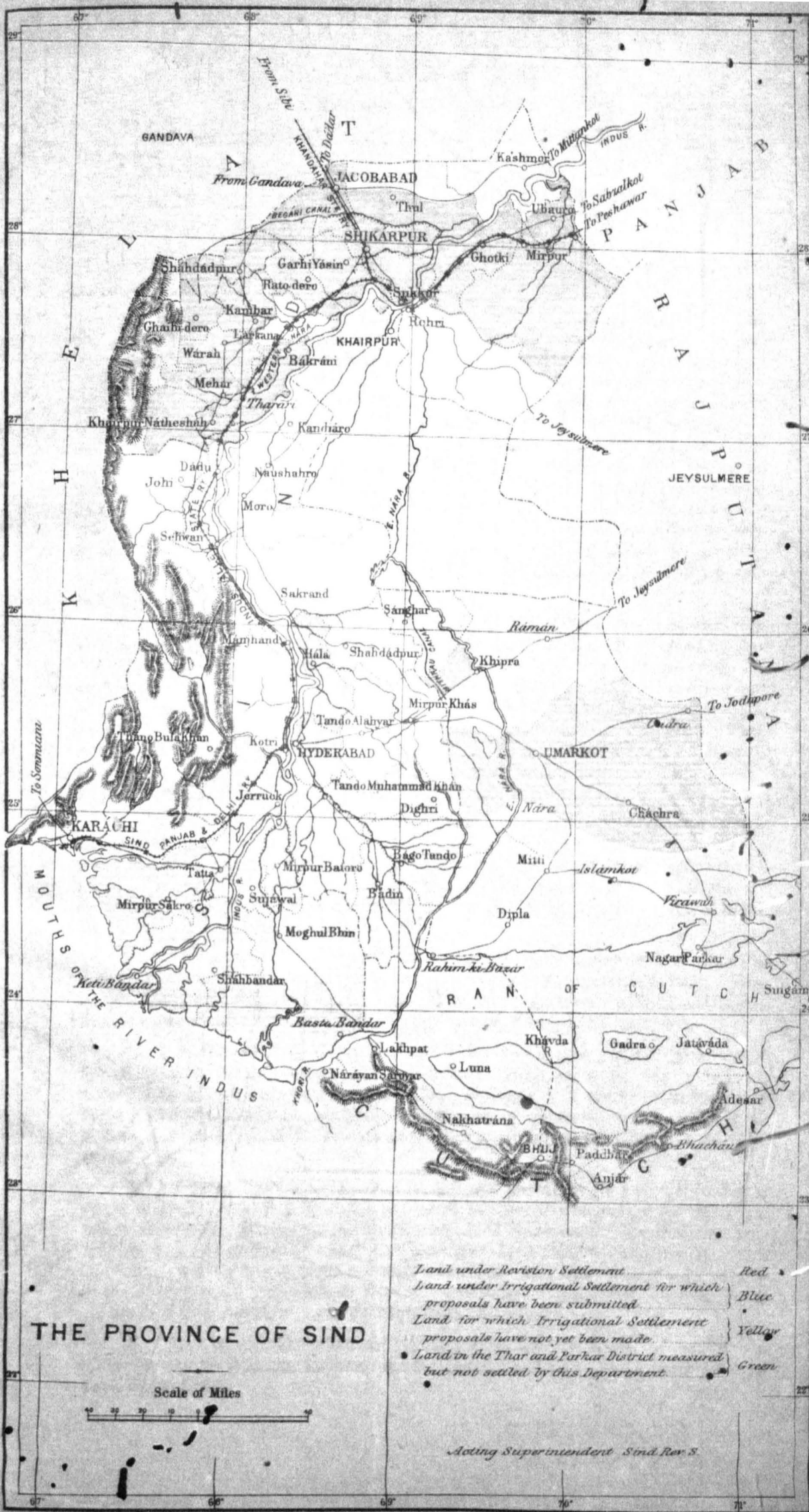
6. Mr. Disney is loyally pressing on the work and preparing the way for extensive reductions in the Department from October next; and in accordance with his suggestions the Commissioner has recently sanctioned certain changes in the current year's programme of work which will, it is hoped, have the effect of accelerating the completion of Revision Survey operations.

7. In para. 29 of his Report, Mr. Disney promises to submit in June next, the precise details as to the extent of the work remaining to be done which Government have called for in para. 7 of Government Resolution, No. 2806 of the 4th May 1888, and the Commissioner thinks that, as by that time the result of the current season's operations will be known, the Superintendent will be in a position to deal more exhaustively with the subject than he could if the report were to be submitted at once.

8. The Commissioner is satisfied that Mr. Disney is doing all in his power to ensure that the measurement of lands in Sind shall be completed as soon as possible.

C. B. PRITCHARD,  
Commissioner in Sind.





*Annual Reports : Survey Progress Report of the Sind Revenue Survey and Settlement Department for the year 1887-88.*

No. 6739 of 1889.

REVENUE DEPARTMENT.

Bombay Castle, 9th September 1889.

Memorandum from the Commissioner in Sind, No. 1252, dated 13th April 1889—Submitting, with his remarks, the Annual Progress Report of the Sind Revenue Survey and Settlement Department for the year 1887-88.

RESOLUTION.—During the year 1887-83 three establishments were employed in Sind in the work of measurement. Some measurement was also carried out by three classing establishments in addition to their proper duties. The talukás in which original and revision measurement was carried on are shown marginally. The re-measurement of the Kotri and Sukkur Talukás was finished and also that of the Umarnkot Taluka, with the exception of that of five villages the survey of which was deferred pending the completion in them of canal works which it is expected will largely increase the area for cultivation. The work in the remaining talukás remained unfinished. The average number of measurers employed during the year was 1·58 in excess of that employed in 1886-87 and the outturn in acres was 1,154,095 as against 794,470 in the previous year. The increase was due to the fact that the classing establishments also were employed in measurement for part of the year. Fewer survey numbers were measured, but there is an increase in the number of waslás or trapezia. The number of acres per man measured during the year under review was 3,855 as against 4,569 in the previous year, the decrease being due to the increased number of survey numbers and waslás which were measured. The work was on the whole satisfactorily done. Out of a total of 6,464 fields submitted to test the difference in area between original and test measurement exceeded 3 per cent. in 18 survey numbers only. This year for the first time, when the already revised talukas came to be re-surveyed, the plan was adopted of having both the measuring and classing done by one and the same establishment. In view of the fact that they were unaccustomed to the work, the measurement was satisfactorily done by the classers.

2. One result of this arrangement, however, was a considerable decrease in the outturn of acres classed. There were three classing establishments at work in the talukás marginally noted, but the number of acres classed was only 727,801 as against 1,625,830 in the previous year, when for any measuring which had to be done at the time of classification measurers were specially attached to the classing establishments. As, however, 32 per cent. of the area measured was the work of mixed classing and measuring establishments, the decrease in the area classed cannot be regarded as evidence of a falling off in the industry of the classers. In consequence of the general decrease in classification outturn, the average outturn per man fell from 31,182 acres in 1886-87 to 16,613 acres in 1887-88. It appears from Appendix 6 that the result of the tests which were taken in 9,996 fields, *i. e.*, nearly 8 per cent. of the area classed, was that no differences were discovered between the original and the test classification. This, if correct, points to extraordinary accuracy of classification on the part of the classers.

3. The whole of the recess work for the year was completed within the recess season which lasted from about the 15th May to the 31st October.

4. During the year under review sanction was received for the irrigation settlement of the Ghorábari Taluka, and the new rates were introduced



from the year 1888-89 as were also the new rates sanctioned for the Mirpur Sákro Táluka. Proposals for the settlement of the Sukkur and Mirpur Khás Tálukas were submitted to the Commissioner in Sind, as were the usual proposals for the revision of charges for tapádárs in the tálukas of Ghorábari and Mirpur Sákro. The proposals relating to Sukkur have been disposed of by Government Resolution No. 527, dated 19th January 1889.

5. In accordance with the orders of the Commissioner in Sind, as subsequently sanctioned by Government in their Resolution No. 6668, dated the 5th October 1888, the Lithographic Press at Hyderabad was abolished from 1st July 1888. Various village and táluka maps were prepared during the year under review and copies of them were photozincographed at Poona. Copies of village registers in the new form were prepared by the establishment formerly employed on the Lithographic Press, as sanctioned by Government in the Resolution already referred to.

6. The total cost of the Survey for the year 1887-88 was Rs. 1,74,236 as against Rs. 1,85,693 in the previous year. The expenditure incurred was less than the sanctioned grant by Rs. 25,743. The decrease of Rs. 11,457 is not explained by the Superintendent. The cost per acre for classing and measuring jointly was less by 3 pies than in the previous year, and this is due to the fact that both operations were in some cases performed by the same establishment as above alluded to. The reduction in the amount of unadjusted balances which now amount to Rs. 20,322 is satisfactory.

7. The exhaustive report giving precise details of the extent of the work still remaining to be done by the Survey Department in Sind, called for in Government Resolution No. 2806, dated May 4th, 1888, has not yet been submitted though in his present report Mr. Disney proposes to furnish it in June 1889. The Governor in Council trusts that no further delay will be allowed to occur in its submission. It is noted that the Superintendent states that "there is every reason to expect that a further considerable reduction in the cost of survey establishments in Sind can be effected before the beginning of the next field season."

8. The results of the year's work are satisfactory, and the Governor in Council concurs with the Commissioner in approving of the progress made by Mr. Disney in the work of measurement of lands in Sind and of his general conduct of his duties as Superintendent.

J. DeC. ATKINS,

Acting Under Secretary to Government.

To

The Commissioner in Sind,  
The Survey and Settlement Commissioner,  
The Superintendent, Sind Revenue Survey,  
The Accountant General,  
The Public Works Department of the Secretariat,  
The Government of India,  
The Secretary of State for India.

} By letter.

No. of 1889.

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