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MADRAS RECORD OFFICE

Government of Madras

Revenue DEPARTMENT

G.O. No.	404	Ret.	Press
B.P. No.			Mis.
Dated	12-	5-	1893.

Not to be folded or roughly handled

02746
nos. 1832 of 93

Draft order

Re. The results of the
Survey of Lemindan and
Drain lands in the
Kistau Delta.

~~From~~
~~W. H. L. to~~
~~G. C. J. 12 May 1893 (no. 404)~~

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GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following letter from H. O'C. CARDOZO, Esq., Superintendent, Madras Survey, to the Secretary to Government, Revenue Department, dated 1st March 1893, Camp No. 34:—

[Reference.—Report of Superintendent of Survey to Government, No. 102 G., dated 11th July 1888, printed with G.O., No. 624, Revenue, dated 4th September 1888, on the special survey of two villages in the Gódvári delta.]

In continuation of my letter No. 214-G., dated 26th November 1892, I have the honour to submit the following report on the survey of permanently-settled estates or zemindari lands in the Kistna delta.

The object of the survey was to ascertain the true area of lands which were under wet cultivation before the present irrigation works were constructed (mamul wet or old irrigation), of lands since irrigated (new irrigation) and of other lands within the permanently-settled estates. The cultivated lands are further sub-divided into alienated (inam) and unalienated (seri) property of the zemindars.

2. The survey was sanctioned in the following orders of Government:—

No. 6891, Revenue, dated 28th October 1889.

„ 10, „ „ 4th January 1890.

„ 861, „ „ 1st November 1890.

3. The survey was carried out by No. I Party under Mr. Maltby, Deputy Superintendent. It began in April 1890 and was finished in June 1892. There has been much delay in obtaining the results of the survey from Mr. Maltby, who at first submitted area lists in which the old and new irrigation in inam lands were not separated. This has now been rectified, and the following statement shows the area by Revenue accounts compared with that by survey of the old irrigation, new irrigation, dry cultivation, culturable waste and poramboke or land reserved for public purposes, in a total area of 670 square miles comprising the deltaic portion of six permanently-settled estates, viz:—

- | | |
|-----------------|----------------|
| 1. Tsallapalle, | 4. Kurtivennu, |
| 2. Gudur, | 5. Teleprole, |
| 3. Vallúru, | 6. Nuzvid, |

and 82 detached aghaharam and shrotriem villages belonging to the six taluks of—

- | | |
|--------------|-------------|
| 1. Gudiváda. | 4. Bezvada. |
| 2. Bápatla. | 5. Guntúr. |
| 3. Repalle. | 6. Bandur. |

Particulars.	Area in acres.			
	Revenue accounts.	Survey.	Increase by Survey.	Percentage of increase.
1	2	3	4	5
Old irrigation .. { Seri	16,232	38,414	2,182	6
{ Inam	5,533	5,666	133	2
New irrigation .. { Seri	60,866	63,739	2,873	5
{ Inam	8,893	9,037	144	2
Dry cultivation .. { Seri	1,67,221	1,72,635	5,414	3
{ Inam	25,358	26,049	691	3
Culturable waste	32,133	32,758	625	2
Poramboke	71,663	80,749	6,116	8
Total, Acres ..	4,10,899	429,077	18,178	4
Total, Square miles ..	642	670	28	4

The details for each estate are given in Appendix No. 1. It would appear from the above statement that about 5,000 acres of wet cultivation properly liable to water-rate have hitherto received free irrigation. But as, in localising the old irrigation, the surveyors have had nothing to guide them beyond the statements of the karnams and Revenue Inspectors, the figures given above are subject to revision after investigation by a responsible Revenue officer.

4. Village maps on the scale of 16 inches = 1 mile have been prepared in manuscript for the whole of the 670 square miles and the manuscript maps have been reduced by photography and printed on the scale 8 inches = 1 mile. A specimen map colored to show old and new irrigation as localised by the surveyors, dry cultivation and waste and a field register are submitted—Appendices 2 and 3.

5. The total cost of the survey including the cost of stone boundary marks has been Rs. 1,45,808 or Rs. 218 per square mile—see Appendix No. 4.

Want of sufficient data made it difficult to prepare an accurate estimate of the cost before survey.

Colonel Rogers, in his report * No. 38-B., dated 11th July 1884, estimated the probable rate per square mile at Rs. 590. The experimental survey made in two villages cost Rs. 1,045 per square mile.

In my report † on that survey No. 102-G., dated 11th July 1888, I roughly estimated the cost of survey of the irrigable zemindari lands in the Gódávári and Kistna deltas, altogether about 1,100 square miles, at about 3 lakhs or about Rs. 270 per square mile. But this did not include the cost of stone boundary marks which I then estimated at Rs. 250 per square mile. About two years later, in my letter ‡ No. 175-G., dated 23rd October 1890, I reported that the cost would probably not exceed Rs. 100 for work and Rs. 50 for stones, but this did not include the cost of theodolite work which was afterwards found necessary.

The actual rate was Rs. 179 for work and Rs. 39 for stones, total Rs. 218. This includes the cost of stone boundary marks which in ordinary surveys is paid by the ryots.

6. It should be remembered that this survey was made under conditions which no longer exist. The recent employment of karnams as surveyors and the cheaper method of survey lately introduced will greatly lessen the cost of work in the Gódávári district. The standard rate for this district, approved in G.O., No. 1084, Revenue, dated 14th November 1891, is Rs. 64 per square mile, and this includes the cost of stone boundary marks in the non-Government villages.

7. The re-survey of the Government villages in the Western delta ordered in G.O., No. 446, Revenue, dated 22nd May 1891, and the survey of zemindari lands not liable to water-rate ordered in paragraph 5 of G.O., No. 1084, Revenue, dated 14th November 1891, is now in progress. The Collector has recently pointed out that the survey of zemindari lands which are liable to water-rate has not been ordered and the Board (Revenue Settlement) in their Proceedings, Mis. No. 37, dated 10th January 1893, have ruled that the re-survey of zemindari and private villages in which there is no old irrigation is not contemplated. But as it would appear from the previous orders of Government quoted in the margin that the survey of old irrigation necessarily involves the survey of new irrigation, I beg that the formal sanction of Government may now be accorded to the field survey of all zemindari lands within the delta.

No. 734, Revenue, dated 11th June 1884.

" 693, " " 16th " 1885.
" 624, " " 4th September 1888.
" 38, " " 25th January 1889.
" 10, " " 4th " 1890.

APPENDIX No. 1.

Kistna Delta Zemindaries and non-Government villages.
Comparison of Survey areas with Revenue areas.

Particulars.	AREA IN ACRES.			
	Revenue accounts.	Survey.	Increase or decrease by survey.	Percentage of difference.
1	2	3	4	5
<i>Tsalapalle Zemindari.</i>				
Old irrigation .. { Seri	5,359	5,718	+ 359	+ 7
.. { Inam	67	83	+ 16	+ 4
New irrigation .. { Seri	7,858	8,132	+ 274	+ 3
.. { Inam	356	335	- 21	- 6
Dry cultivation .. { Seri	68,208	70,461	+ 2,253	+ 3
.. { Inam	2,278	2,489	+ 211	+ 9
Culturable waste	4,713	4,451	- 262	- 6
Poramboke	19,740	18,150	- 1,590	- 8
Total ..	1,08,579	1,09,819	+ 1,240	+ 1
<i>Gudur Zemindari.</i>				
Old irrigation .. { Seri	11,789	11,817	+ 28	..
.. { Inam	3,113	3,107	- 6	..
New irrigation .. { Seri	9,815	10,270	+ 455	+ 5
.. { Inam	1,729	1,694	- 35	- 2
Dry cultivation .. { Seri	11,216	11,630	+ 414	+ 4
.. { Inam	1,245	1,271	+ 26	+ 2
Culturable waste	4,793	4,470	- 323	- 7
Poramboke	10,181	9,829	- 352	- 3
Total ..	53,881	54,088	+ 207	..
<i>Valluru Zemindari.</i>				
Old irrigation .. { Seri	45	45	..	..
.. { Inam	..	..	..	..
New irrigation .. { Seri	2,193	2,235	+ 42	+ 2
.. { Inam	720	726	+ 6	+ 1
Dry cultivation .. { Seri	9,732	9,752	+ 20	..
.. { Inam	2,442	2,371	- 71	- 3
Culturable waste	14	12	- 2	- 15
Poramboke	2,281	2,232	- 49	- 2
Total ..	17,427	17,373	- 54	..
<i>Kurtivenu Zemindari.</i>				
Old irrigation .. { Seri	588	1,061	+ 473	+ 80
.. { Inam	8	..	..	..
New irrigation .. { Seri	657	933	+ 276	+ 42
.. { Inam	85	101	+ 16	+ 19
Dry cultivation .. { Seri	3,142	3,869	+ 727	+ 23
.. { Inam	348	668	+ 320	+ 63
Culturable waste	8,532	9,105	+ 573	+ 7
Poramboke	6,705	9,066	+ 2,361	+ 35
Total ..	20,065	24,713	+ 4,648	+ 23
<i>Teleprole Estate.</i>				
Old irrigation .. { Seri	203	244	+ 41	+ 20
.. { Inam	8	6	- 2	- 25
New irrigation .. { Seri	886	905	+ 19	+ 2
.. { Inam	321	297	- 24	- 7
Dry cultivation .. { Seri	5,470	5,548	+ 78	+ 1
.. { Inam	1,578	1,800	+ 222	+ 14
Culturable waste	2,273	3,207	+ 934	+ 41
Poramboke	10,802	16,411	+ 5,609	+ 52
Total ..	21,541	28,418	+ 6,877	+ 32
<i>Nuzvid Wet Villages.</i>				
Old irrigation .. { Seri	7,964	8,163	+ 199	+ 2
.. { Inam	902	862	- 40	- 4
New irrigation .. { Seri	26,008	26,819	+ 811	+ 3
.. { Inam	4,236	4,315	+ 79	+ 2
Dry cultivation .. { Seri	51,918	52,536	+ 618	+ 1
.. { Inam	16,211	16,232	+ 21	..
Culturable waste	9,597	9,369	- 228	- 3
Poramboke	18,616	17,870	- 746	- 4
Total ..	1,35,452	1,36,166	+ 714	+ 1

Kistna Delta zemindaris and non-Government villages—cont.

Comparison of Survey areas with Revenue areas—cont.

Particulars.	AREA IN ACRES.			
	Revenue accounts.	Survey.	Increase or decrease by survey.	Percentage of difference.
1	2	3	4	5
82. Non-Government villages in the taluks of Gudivada, Bapatla, Repalle, Bezvada, Guntur and Bandar.				
Old irrigation .. {Seri	10,284	11,366	+ 1,082	+ 11
.. {Inam	1,435	1,598	+ 163	+ 11
New irrigation .. {Seri	13,449	14,445	+ 996	+ 7
.. {Inam	1,446	1,569	+ 123	+ 9
Dry cultivation .. {Seri	17,535	18,833	+ 1,304	+ 7
.. {Inam	1,256	1,318	+ 62	+ 5
Culturable waste ..	2,211	2,144	- 67	- 3
Poramboke ..	6,338	7,221	+ 883	+ 14
Total ..	53,954	58,500	+ 4,546	+ 8
Abstract.				
Old irrigation .. {Seri	36,232	38,414	+ 2,182	+ 6
.. {Inam	5,533	5,066	- 467	- 8
New irrigation .. {Seri	60,866	63,739	+ 2,873	+ 5
.. {Inam	8,893	9,037	+ 144	+ 2
Dry cultivation .. {Seri	167,221	172,635	+ 5,414	+ 3
.. {Inam	25,358	26,049	+ 691	+ 3
Culturable waste ..	32,133	32,758	+ 625	+ 2
Poramboke ..	74,663	80,779	+ 6,116	+ 8
Total ..	4,10,899	429,077	+ 18,178	+ 4
Total, square miles ..	642	670	+ 28	+ 4

APPENDIX No. 4.

Cost of Survey work to Government.

Party.	District.	Taluk.	Area mapped on 16 inch scale.	WORK CHARGES. RATE PER SQUARE MILE.									
				A.	B.	C.	D.	E.	F.	G.	H.	Total.	
				Marking stations.	Traverse survey.	Traverse computation.	Traverse plotting.	Field demarcation.	Field measurement.	Plane tabling.	Finishing.		
1	2	3	4	5	6	7	8	9	10	11	12	13	
I	Kistna	Standard	SQ. M.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
			..	3	21	6	4	12	16	34	4	100	
		Kistna delta zemindaris ..	531	2	3	1	1	13	17	21	8	66	
		Teleprole Estate	45	3	9	4	3	9	13	14	7	62	
		82 non-Government villages in Gudivada, Repalle, Bapatla, Guntur, Bandar and Bezvada.	92	..	..	..	..	14	15	22	22	73	
		Total ..	668	..	..	..	..	..	..	..	..	..	

Party.	District.	Taluk.	SUNDRY CHARGES—RATE PER SQUARE MILE.								Total rate per square mile.	Total expenditure on which the rate was calculated.
			1	2	3	4	5	6	Total.			
			Officer's supervision.	Petty supervision.	Miscellaneous salaries.	Peons.	Contingencies.	Boundary pillars.				
			14	15	16	17	18	19		20		
										21	22	
I	Kistna	Standard	RS. 45	RS. 35	RS. 15	RS. 25	RS. 20	RS. 10	RS. 150	RS. 250	RS. ..	
		Kistna delta zemindaris ..	42	18	16	15	17	43	151	217	1,15,293	
		Teleprole Estate	48	25	18	16	15	35	157	219	9,880	
		82 non-Government villages in Gudivada, Repallo, Bapatla, Guntur, Bandar and Bezvada.	67	23	16	21	15	19	151	224	20,635	
		Total ..	..	..	..	..	..	..	..	..	1,45,808	
Average rate per square mile ..											218	

READ—Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 8th April 1893, No. 668, Routine.

ABSTRACT.—Submitting for reference a full copy of Board's Proceedings, dated 10th January 1893, Mis. No. 37.

ENCLOSURE No. 1.

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 10th January 1893, Mis. No. 37:—

Read—the following telegram from the Collector of Gódvári, to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture, dated 31st December 1892:—

Board's Proceedings, 701, October 25 *.
Please wire whether Government has yet sanctioned resurvey of zemindari and private villages in which there is no mamul wet. See paragraph 7 of Government Order read.

Resolution—dated 10th January 1893, Mis. No. 37.

The Collector will be informed that the papers quoted by him do not contemplate a resurvey of zemindari and private villages in which there is no mamul wet. The resurvey of zemindari estates at present being carried on in the Kistna and Gódvári districts has reference solely to the localization of mamul wet.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary

To the Collector of Gódvári.
Copy to the Superintendent, Revenue Survey.

ORDER—dated 12th May 1893, No. 404, Revenue.

Miscellaneous.

The results of the survey of permanently-settled estates in the Kistna delta reported by the Superintendent of Survey in his letter read above are satisfactory.

2. With reference to the closing paragraph of his report, the Superintendent will be informed that he is right in supposing that the survey of permanently-settled estates in the Godáviri delta was sanctioned in paragraph 5 of G.O., dated 14th November 1891, No. 1084, and that the survey should be conducted on the same lines as were adopted in the case of the estates in the Kistna delta.

3. The Board's remarks in its Proceedings, dated 10th January 1893, No. 37 (Revenue Settlement, Land Records and Agriculture), show that it is under a misconception as to the scope of this survey. The main object thereof is to obviate the necessity for annual measurements of irrigated lands for the purpose of determining the water-rate leviable in permanently-settled estates—*vide* paragraph 3 of G.O., dated 4th September 1883, No. 624. It is true that one object of the survey is to define the mamul wet lands in cases wherever they have been localized. When this is the case, all that the Survey Department has to do in respect of these lands is to demarcate them in suitable blocks. All lands which are outside this area, but which are commanded by the canal should be surveyed in fieldwar detail, (*vide* paragraph 2 of G.O., dated 10th June 1885, No. 693) and a similar survey should be carried out in respect of *all* lands commanded by the canal in those estates in which the arrangement is to allow free irrigation for the "gudicut" area and where localization is not insisted upon—*vide* paragraphs 4 and 5 of G.O., dated 4th January 1890, No. 10.

It is therefore incorrect to say, as the Board does in its Proceedings quoted above, that the "survey of zemindari estates at present being carried on in the Kistna and Godáviri districts has reference solely to the localization of mamul wet."

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Superintendent of Survey.
„ the Board of Revenue (Revenue Settlement).
„ „ „ (Land Revenue).

Exd. S. J. Pereira.

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Govt. of {1893} Madras.
REVENUE.

Issued

Recd.

Encl.

G.O., 12th May 1893, No. 404.

MAY.

Survey.

Stating that the results of the — of permanently-settled estates in the Kistna delta are satisfactory, that the survey of zemindari estates at present carried on in the Kistna and Gódavari districts is not solely for the localization of mamul wet.

OTY RECORD

BOARD OF REVENUE (REV. SETT., L. RDS. AND AGRI.), 25TH OCT. 1892, No. 701.

PROCEEDINGS OF THE BOARD OF REVENUE
(REVENUE SETTLEMENT, LAND RECORDS AND AGRICULTURE).

READ—the following G.O., dated 14th September 1892, No. 971, Revenue:—

Read—the following letter from H. O'C. CARDOZO, Esq., Superintendent, Madras Survey, to the Secretary to Government, Revenue Department, dated Madras, 12th July 1892, No. 117-G.:—

I have the honour to submit the Annual Report on the operations of the Survey Department for 1891-92.

REPORT ON THE OPERATIONS OF THE MADRAS SURVEY
DEPARTMENT DURING 1891-92.

During the year, the department was directed by Mr. Cardozo, Superintendent of Revenue Survey.

1. *Outturn and Outlay.*—Five Parties were employed on the survey of the four districts of Kistna, Anantapur, Malabar and Canara, and one Party was employed on the resurvey of the Trichinopoly district.

Cadastral Survey—Five Parties.—The forecast approved in 1887 (G.O., No. 315, dated 22nd March 1887,) was prepared before the resurvey of Trichinopoly was contemplated, and it included the operations of the five survey Parties and of the Central office only, not those of the Party now employed in Trichinopoly.

It anticipated an outturn of 1,900 square miles of cadastral survey for an expenditure of 6 lakhs; but, by the arrangements approved in G.O., No. 122, dated 17th February 1891, the expenditure of the five Parties and the Central office was reduced from 6 lakhs to 5½ lakhs, and for the latter sum an outturn of 1,893 square miles was expected. See last year's annual report, paragraph 6. The outturn realized was a little more and the expenditure about 20,000 rupees less than the estimate as shown below:—

	Outturn. sq. mls.	Outlay. rs.
Forecast (G.O., No. 315, Revenue, dated 22nd March 1887)	1,900	6,00,000
Revised estimate	1,893	5,50,000
Actual results—		
16 inch cadastral	2,013	5,29,954
8 inch special cadastral	302	
Topographical	137	

Resurvey of Trichinopoly—one Party.—The saving of half a lakh per annum effected by the arrangements approved in G.O., No. 122, dated 17th February 1891, was ordered by G.O., No. 446, dated 22nd May 1891, to be used for the resurvey of the Trichinopoly district estimated to cost altogether Rs. 1,00,000 at the rate of Rs. 40 per square mile.

The sum allotted for expenditure during 1891-92 was Rs. 40,000. At the estimated rate mentioned above, Rs. 40 per square mile, this sum, Rs. 40,000, would represent an outturn of 1,000 square miles. The outturn realized was somewhat less, viz., 932 square miles, but the expenditure during the year was only Rs. 25,470, being Rs. 14,530 less than the budget allotment of Rs. 40,000.

The outturn of 932 square miles has all been demarcated, measured and mapped in blocks as approved in G.O., No. 446, dated 22nd May 1891. The block maps are being finally examined and finished in office for photo-reduction to form the village maps. These processes have been much delayed pending sanction of the proposals for the revision of village boundaries (Proceedings of the Board of Revenue, Revenue Settlement, Land Records and Agriculture, No. 3655, dated 16th April 1892). The total expenditure on these processes will certainly not bring up the cost per square mile to more than the estimated rate of Rs. 40.

The completion of the district in all respects within the total estimated cost of one lakh of rupees is no longer a matter of doubt.

Total outturn and expenditure of the department.—The following statements show the outlay and outturn of each Party..

The total budget grant including the allotment for the Trichinopoly resurvey was Rs. 5,90,000..

The total expenditure of the department which, without loss of outturn, has been gradually reduced year by year from Rs. 8,24,659 in 1886-87 to Rs. 5,87,811 in 1890-91, was further reduced during 1891-92 to Rs. 5,55,424. This sum is Rs. 34,576 less than the total budget grant and Rs. 32,387 less than the expenditure of the previous year.

The outlay on incomplete work which has been gradually reduced as pointed out in previous reports was further reduced during the past year from Rs. 91,355 to Rs. 53,281.

Outlay.

Nature of work.	Scale inches to 1 mile.	EXPENDITURE DURING 1891-92.								Total of each main head of work.
		*I.	II.	III.	IV.	V.	VI.	Central office.	Total.	
1	2	3	4	5	6	7	8	9	10	11
SURVEY PARTIES.										
I. Cadastral survey—		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. Demarcation ..	16	34,415	14,012	13,502	13,353	15,831	..	..	91,203	3,64,778
2. Field survey ..	16	54,973	63,892	53,726	37,945	63,039	..	..	2,73,575	
II. Cadastral resurvey—										
3. Demarcation ..	16	..	..	..	..	..	7,539	..	7,539	25,470
4. Field survey ..	16	..	..	..	..	..	17,931	..	17,931	
III. Special and Miscel- laneous—										
5. Cadastral ..	16	..	..	3,042	..	17,807	..	..	20,849	44,424
6. Do. ..	8	..	..	..	15,391	..	..	..	15,391	
7. Topographical..	4	..	8,099	85	..	..	..	..	8,184	
IV. Topographical—										
8. Village ..	8	1,474	280	..	..	..	..	..	1,754	2,056
9. Forest ..	8	..	142	..	..	..	..	..	142	
10. Hills ..	2	..	160	..	..	..	..	..	160	
Central office.										
V. Publication—										
Village maps, Gov- ernment.	8	..	..	..	..	..	..	5,426	..	26,749
Village maps, non- Government.	4	..	..	..	..	..	..	150	..	
Coffee or Tea Plan- tations.	16	..	..	..	..	..	..	1,069	..	
Taluk maps ..	1	..	..	..	..	..	..	2,617	..	
District maps ..	1	..	..	..	..	..	..	757	..	
Miscellaneous maps and plans.	..	..	..	..	..	..	..	16,830	..	
VI. General supervision.	..	..	..	..	..	..	..	91,947	91,947	91,947
Expenditure during 1891-92.	..	90,862	86,585	70,445	68,689	96,677	25,470	1,18,696	5,55,424	5,55,424

Outturn.

Nature of work.	Scale inches to 1 mile.	WORK COMPLETED.								Total.
		I.	II.	III.	IV.	V.	VI.	Central office.		
1	2	3	4	5	6	7	8	9	10	
SURVEY PARTIES.										
I. Cadastral survey—		SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
1. Demarcation ..	16	438	711	244	292	328	..	..	2,013	
2. Field survey ..	15	438	711	244	292	328	..	..	2,013	
II. Cadastral resurvey—										
3. Demarcation ..	16	..	..	..	..	..	932	..	932	
4. Field survey ..	15	..	..	..	..	..	932	..	932	
III. Special and miscel- laneous—										
5. Cadastral ..	16	..	..	..	..	..	..	..	..	
6. Do. ..	8	..	..	..	302	..	..	..	302	
7. Topographical ..	4	..	37	..	..	..	..	..	37	
IV. Topographical—										
8. Village ..	8	26	36	..	..	..	..	..	62	
9. Forest ..	8	..	13	..	..	..	..	..	13	
10. Hills ..	4	..	25	..	..	..	..	..	25	
<i>Central office.</i>										
V. Publication—										
Village maps, Gov- ernment.	8	..	..	..	..	..	..	2,014	2,014	
Village maps, non- Government.	4	..	..	..	..	..	..	294	294	
Coffee or Tea Plan- tations.	16	..	..	..	..	..	..	63	63	
Taluk maps ..	1	..	..	..	..	..	..	6,477	6,477	
District maps ..	1	..	..	..	..	..	..	3,710	3,710	
Miscellaneous maps and plans.	various.	..	..	..	..	..	..	1,66,826	..	
VI. General supervision.	..	..	..	..	..	..	..	..	..	
Expenditure during 1891-92.	..	90,862	86,585	70,445	66,689	96,677	25,470	1,18,696	5,55,424	

N.B.—The special miscellaneous surveys are—

	Inches.	SQ. MLS.
Cadastral ..	8, Kumari cultivation in Kásaragóð taluk (See item 4 under special and miscellaneous surveys, page 4.)	302
Topographical ..	{ 4, Palni Hills, Madura district 4, Periyakulam forests, Madura district	21 16

Outlay is shown above under the following six heads:—

	RS.	RS.
(1) Cadastral survey	3,64,778	3,90,248
(2) Do. resurvey	25,470	
(3) Special and miscellaneous surveys	44,424	26,749
(4) Topographical survey	2,056	
(5) Publication	26,749	
(6) General supervision	91,947	

Three of these items of expenditure were not provided for in the forecast (G.O., dated 22nd March 1887, No. 315).

These are—

- No. 2. Cadastral resurvey.
- 3. Special and miscellaneous surveys.
- 4. Topographical survey.

During the year the expenditure on cadastral work was, as in the previous year, 10 per cent. of the total outlay. It was not possible to reduce the expenditure on special and miscellaneous surveys as was expected last year. The expenditure on these items has increased by 21 per cent., but this increase was unavoidable.

The principal items are mentioned below. Every effort will continue to be made to keep these miscellaneous items of expenditure as low as possible:—

- (1) Subdivision of waste land blocks on the Nilgiri hills.
- (2) Survey for the Madras Municipality of the water-supply channel from the Red hills lake to the town of Madras.
- (3) Additional subdivision of survey fields for settlement purposes in completed taluks of Malabar.
- (4) Field survey of cultivation in hilly tracts of Canara excluded from ordinary cadastral survey, and to be hereafter topographically surveyed by the Survey of India department as directed in G.O., No. 602, dated 20th July 1886.
- (5) Topographical survey of Palni hills and Periyakulam forests, Madura district.

2. *Outturn of each Party compared with the estimate for 1891-92.*—The outturn of each Party is compared below with the estimate.

No. I Party, Kistna.—Mr. Maltby was in charge for nine months and Mr. Bentley Taylor for three months. The estimated outturn was 293 square miles of cadastral survey. This was reported to be the area remaining for survey in the zemindari villages of the Kistna district; but it was afterwards found that several isolated inam villages, total area about 100 square miles, had been overlooked and these were surveyed in addition to the area estimated. The outturn realized was 438 square miles of cadastral survey besides 26 square miles of topographical survey.

The expenditure was Rs. 90,862.

No. II Party, Anantapur.—Mr. Baber was in charge for nine months, Mr. MacHutchin for one month and Mr. Martin for two months.

The estimated outturn was 700 square miles of cadastral survey and the outturn realized was 711 square miles of cadastral survey besides 111 square miles of topographical survey.

The expenditure was Rs. 86,585.

No. III Party, Malabar.—Mr. Martin was in charge for ten months and Mr. Bentley Taylor for two months.

The estimated outturn was 300 square miles of cadastral survey, but the outturn realized was only 244 square miles. The expenditure was Rs. 70,445 or nearly Rs. 18,000 less than the allotment intended to produce the estimated outturn of 300 square miles. The deficiency in outturn, 56 square miles, was due to the transfer to No. V Party of some of the surveyors for additional sub-division work for the Settlement department and consequent reduction of expenditure in No. III Party.

No. IV Party, South Canara.—Mr. Thornhill was in charge during the year.

The estimated outturn was 300 square miles of cadastral survey and the outturn realized was 292 square miles, besides 302 square miles of special field survey on the 8 inch scale of cultivation in hilly tracts excluded from the ordinary 16 inch cadastral survey.

The expenditure was Rs. 66,689.

No. V Party, Malabar.—Mr. Tomlinson was in charge for nine months, Mr. Greene for one month and Mr. Bentley Taylor for two months.

The estimated outturn was 300 square miles of cadastral survey and the outturn realized was 328 square miles.

The expenditure was Rs. 96,677, but this includes Rs. 16,579, cost of additional subdivision of survey fields for settlement purposes in completed taluks.

No. VI Party, Trichinopoly.—M.R.Ry. P. R. Narayana Aiyar Avargal, Special Deputy Collector, was in charge during the year.

The estimate in last year's annual report was 1,250 square miles, half the district, but this area, at the estimated rate of Rs. 40 per square mile, would have involved an expenditure of Rs. 50,000, whereas only Rs. 40,000 were allotted. As shown in paragraph 1, the outturn for Rs. 40,000 should be 1,000 square miles. The outturn realized was 932 square miles, only 68 square miles less, which, considering the actual expenditure, Rs. 25,470, may be considered satisfactory. This is the first time that survey by karnams has been attempted in this Presidency. There was naturally much opposition at first. That all difficulties have been overcome is

due to the energy and tact of Mr. Narayana Aiyar, the Deputy Collector in charge, and to the support he received from Mr. C. J. Weir, Acting Collector, and from his successor, Mr. Welsh, the present Collector, as well as from all the native Revenue officials in the district. Mr. Narayana Aiyar reports that he is specially indebted to the Tahsildar of Trichinopoly taluk M.R.Ry. Candasamy Pillai Avargal.

Central office.—Mr. Cook was in charge during the year except for six weeks while on privilege leave. During his absence, the Superintendent took charge of the office assisted in the Photo-zincographic department by Mr. Greene, Assistant Superintendent. As already reported, arrangements are now made to print every year all the village maps surveyed during the previous year. The area of village and estate maps published during 1891-92 was 2,077 square miles, 18 square miles more than in the previous year. There are no arrears. All village maps which have been received from Parties have been printed. The outturn of district and taluk maps is shown below:—

District Maps.

	sq. mls.
Tanjore	3,710

Taluk Maps.

District.	Taluk.	Area square miles 1 inch.	Remarks.
Tanjore	Tanjore	684	
	Tiruturaipandi	485	
	Palukota	904	
Madura	Ramnad zemindari	2,104	
	Radayadug	815	
Bellary	Harpanahalli	611	
North Arcot	Kalahasti zemindari	874	Reprint.
	Total	6,477	

The Bellary district map is very nearly ready. A general map of the Madras Presidency, scale 20 miles = 1 inch, showing district and taluk boundaries, headquarters of Collectors, Divisional officers and Tahsildars, together with all railway stations and other places of importance or interest has been compiled and is now ready for publication. The total expenditure of the Central office including pay of the Superintendent was Rs. 1,18,696, being Rs. 12,155 more than in the previous year. This increase is due to the arrangements sanctioned in G.O., No. 122, dated 17th February 1891, by which much of the work formerly performed in the Party offices was, with a saving in total cost, transferred to the Central office.

The cost of lithographic work for the Public Works Department and Government Press was Rs. 3,878. The total saving effected during the three years since the abolition of the Public Works Department, Lithographic Press, ordered in G.O., No. 178 W., Public Works, dated 23rd January 1889, is Rs. 10,144.

The total outturn of photo-zincographic work, other than village, taluk and district maps, is shown below:—

Items.	1890-91.	1891-92.	Increase in 1891-92.
<i>Number of copies printed.</i>			
Maps, plans, &c. for Public Works Department and Government Press formerly printed by the Public Works Department.	50,327	75,472	16,145
Ordinary work of the Central office for Government, Revenue Board and other departments.	71,040	91,354	20,314
Total	1,30,367	1,66,826	36,459

The increase of outturn during 1891-92 was about 28 per cent.

The outturn of all the Deputy Superintendents was satisfactory. Messrs. Tomlinson, Cook, Maltby, Thornhill and Narayana Aiyar deserve commendation for good

outturn and Mr. Thornhill and Mr. Narayana Aiyar are particularly to be praised for their care and economy in expenditure.

Field inspection by officers.—The number of days on which officers in charge of parties were absent from their head-quarters is shown below, halts at hill stations being excluded:—

Name.	Number of months on duty.	Number of days absent from head-quarters.
Mr. Tomlinson	9	72
" Maltby	9	134
" Thornhill	12	127
" Baber	9	30
" Martin	12	72
" Taylor	7	62
" P. R. Narayana Aiyar	9	168

Mr. Baber's record was most unsatisfactory and Mr. Martin should have spent more time in camp.

Every district under survey was visited at least once by the Superintendent.

4. *Field of work.*—The following statement shows in detail where each Survey Party was employed during the year. The approximate area for survey entered in column 3 is subject to correction after survey:—

PROCESS OF WORK.																					
Taluk.	Number of item.	Approximate area for survey.	Scale of maps, inches to one mile.	Preliminary.			Theodolite survey.			Field survey.			Finishing maps and records—recess work.				Remarks.				
				Completed.			Completed.			Completed.			Completed.								
				Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.		During 1891-92.	Total on 1st April 1892.		
1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
No. I PARTY.		sq. m.		sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	
Kistna district.																					
Cadastral.																					
Medor and Kapileswarapuram estates.	1	273	16	254	19	273	..	254	19	273	..	254	19	273	..	210	63	273	..	45	Survey for the Court of Wards. 19 square miles omitted in last year's report.
Teleprol estate	2	45	16	..	45	45	..	336	200	536	..	254	282	536	..	123	188	311	..	223	Survey for the Court of Wards. Survey of zemindari lands not liable to water-rate.
Kistna Delta zemindaries ..	3	536	16	469	67	536	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Godivada ..	4	92	16	92	..	92	..	92	..	92	..	..	92	92	..	..	..	..	..	92	Non-Government villages; survey of lands not liable to water-rate.
Repalle ..																					
Rapalla ..																					
Guntur ..																					
Bandur ..																					
Beervada ..																					
Total ..		946	..	815	131	946	..	632	264	846	..	508	438	946	..	333	251	584	362	..	
Topographical.																					
Medor and Kapileswarapuram estates.	5	29	8	29	..	29	..	29	..	29	..	26	3	29	..	5	21	26	3	..	
Teleprol estate	6	23	8	..	23	23	..	..	23	23	..	..	23	23	..	..	..	..	23	..	
Total ..		52	..	29	23	52	..	29	23	52	..	26	26	52	..	5	21	26	26	..	
No. II PARTY.																					
Bellary district.																					
Cadastral.																					
Earpanthalle ..	1	473	16	466	7	473	..	466	7	473	..	466	7	473	..	290	183	473	..	..	Seven square miles omitted in last year's report.

Seven square miles omitted in last year's report.

PROCESS OF WORK.																						
Taluk.	Number of item.	Approximate area for survey.	Scale of maps, inches to one mile.	Preliminary.				Theodolite survey.				Field survey.				Finishing maps and records—recess work.				Remarks.		
				Completed.		Balance on 1st April 1892.		Completed.		Balance on 1st April 1892.		Completed.		Balance on 1st April 1892.		Completed.		Balance on 1st April 1892.				
				Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Up to 1st April 1891.		During 1891-92.	Total on 1st April 1892.
				sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.		sq. m.	sq. m.
No. II PARTY—cont.																						
Anantapur district.																						
Cadastral.																						
Anantapur ..	2	768	16	730	38	768	..	730	38	768	385	64	704	768	..	1,200	..	139	629	33		
Dharmavaram ..	3	1,200	16	1,200	..	1,200	..	59	286	345	855	..	..	..	..	451	..	..	1,200	13		
Hindupur ..	4	451	16	..	451	451	..	..	..	451	451	..	..	..	..	451	..	..	451	25		
Total ..	..	2,892	..	2,396	496	2,892	..	1,255	331	1,586	1,306	530	711	1,241	..	1,651	290	322	2,380	18		
Topographical.																						
Anantapur ..	5	43	8	32	11	43	..	32	11	43	..	7	36	43	..	..	..	10	33	Inam villages.		
Dharmavaram ..	6	17	8	11	6	17	..	11	6	17	..	4	13	17	..	..	..	4	13	Forests.		
	7	27	4	8	19	27	..	8	19	27	..	2	25	27	..	..	..	2	25	Hills.		
	8	18	8	..	18	18	..	..	3	15	..	..	..	..	..	19	..	..	18	Inam villages.		
Madura district.																						
Palnis ..	9	282	4	261	21	282	..	261	21	282	..	261	21	282	..	..	..	282	282	..		
Periyakulam ..	10	16	4	..	16	16	..	..	16	16	..	..	16	16	..	..	..	16	16	..		
Total ..	..	403	..	312	91	403	..	312	76	388	15	274	111	385	..	18	..	314	314	89		
No. III PARTY.																						
Madhar district.																						
Cadastral.																						
Kurumbanad ..	1	348	16	348	..	348	..	295	53	348	..	168	180	348	..	..	..	170	170	178		
Kottayam ..	2	279	16	279	..	279	..	..	72	72	406	..	64	64	..	215	..	..	..	279		
Chirakal ..	3	406	16	..	406	406	..	..	..	..	..	..	..	..	..	406	..	..	..	406		
Total ..	..	1,033	..	627	406	1,033	..	295	125	420	613	168	244	412	..	621	..	170	170	863		
Twenty-one square miles omitted in last year's report. Forest reserve.																						

Twenty-one square miles omitted in last year's report.
Forest reserve.

Inam villages.
Forests.
Hills.
Inam villages.

Taluk.	Number of item.	Approximate area for survey.	Scale of maps, inches to one mile.	Process of work.																Remarks.	
				Preliminary.				Theodolite survey.				Field survey.				Finishing maps and records—recess work.					
				Completed.		Up to 1st April 1891.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.			
				During 1891-92.	Total on 1st April 1892.														Balance on 1st April 1892.		Completed.
1			4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
No. III PARTY—cont.																					
Chingleput and Madras.																					
Miscellaneous.																					
Saidapet and Madras Town.																					
No. IV PARTY.																					
South Canara district.																					
Cadastral.																					
Kasaragod	1	638	16	620	18	638	..	464	174	638	..	385	253	638	..	310	190	600	138		
Mangalore	2	17	16	17	17	17	..	..	..	..	..	..	17	17	..	..	17	17	17	548	
Udupi	3	570	16	570	..	570	..	66	504	570	..	..	22	22	548	..	..	22	22	687	
	4	687	16	..	..	..	687	..	..	687	687	..	..	..	687	..	..	..	..	..	
Total	..	1,912	..	1,190	35	1,225	687	530	678	1,208	687	385	292	677	1,235	310	229	539	1,373		
Special Cadastral.																					
Kasaragod	5	302	8	..	302	302	..	..	..	..	..	..	302	302	..	..	302	302	..	..	
No. V PARTY.																					
Malabar district.																					
Cadastral.																					
Ponani	1	482	16	303	179	482	..	153	329	482	..	153	325	478	4	92	81	173	309		
Ernad	2	685	16	..	685	685	..	..	6	6	680	..	..	..	685	..	..	..	685		
British Cochin	3	3	16	..	3	3	..	..	3	3	..	..	3	3	..	..	3	3	3		
Total	..	1,170	..	303	867	1,170	..	153	337	490	680	153	328	481	899	92	84	176	904		
Survey for the Madras Municipality of the water-supply channel from the Red Hills lake to the town of Madras.																					
Special field survey of cultivation in hilly tracts excluded from ordinary cadastral survey.																					
Anjengo, Tanjaoheri and Cochlin settlements.																					

Survey for the Madras Municipality of the water-supply channel from the Red Hills Lake to the town of Madras.

Special field survey of cultivation in hilly tracts excluded from ordinary cadastral survey.

Anjengo, Tanjore and Cochin settlements.

Taluk.	PROCESS OF WORK.																				Remarks.
	Number of item.	Approximate area for survey.	Scale of maps, inches to one mile.	Preliminary.				Theodolite survey.				Field survey.				Finishing maps and records—recess work.					
				Completed.				Completed.				Completed.				Completed.					
				Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Balance on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Balance on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Balance on 1st April 1892.	Up to 1st April 1891.	During 1891-92.	Total on 1st April 1892.	Balance on 1st April 1892.		
* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
No. V PARTY—cont.		sq. m.											sq. m.	sq. m.	sq. m.	sq. m.				sq. m.	
Miscellaneous.																					
Malabar district.																					
Palghat	4	456	16	..	..	..	..	..	..	..	..	177	279	456	..	..	..	..	..	Sub-division measurement for Settlement Department. Do. do.	
Wadawand	5	542	16	..	..	..	..	..	..	..	..	..	186	186	378	..	..	..	..	..	
Nilgiri district.																				Waste land blocks.	
Nilgiris	6	..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
No. VI PARTY.																					
Cadastral.																					
Trichinopoly district.																					
Trichinopoly	1	434	16	..	..	..	..	..	..	..	..	..	344	344	390	..	..	..	..	434	
Kutitai	2	512	16	..	..	..	..	..	..	..	..	..	..	350	162	..	..	..	..	512	
Muari (southern portion) ..	3	295	16	..	..	..	..	..	..	..	..	..	238	238	67	..	..	..	..	295	
* Total	..	1,241	..	..	..	..	..	..	..	..	..	..	932	932	309	..	..	..	..	1,241	

5. *Area remaining for survey.*—The survey of the zemindari lands not liable to water-rate in the Kistna district was finished during the year, and only 3 districts now remain to be surveyed to complete the survey of the Presidency, which began in 1858. These are Anantapur, Malabar, South Canara. All three are in progress. As explained in last year's report, the area remaining for survey in Malabar and Canara cannot be accurately stated, and the figures for these districts entered in columns 2 and 8 of the following statement are liable to considerable correction after survey.

The survey of the 4 districts which were not permanently demarcated during the first survey, viz., Trichinopoly and parts of Godávári, Kistna and Salem, began in Trichinopoly in July 1891. Fair progress has been made in Trichinopoly and it may be expected to be completed in about two years from date of commencement.

The re-survey of part of the Kistna and Godáviri districts, total area about 6,000 square miles, will begin in July 1892 and will take about 3 years.

The re-survey of Salem, 2,935 square miles, will begin after the Trichinopoly district is finished and will take about 2 years.

The following statement shows the area surveyed and remaining to be surveyed in each of the 7 districts mentioned above:—

District.	Estimated total area of district to be Surveyed.	Area for topographical survey by the Survey of India.	Balance for survey by the Madras Survey Department.	SURVEY COMPLETED.		
				Cadastral.	Topographical.	Total.
1	2	3	4	5	6	7
<i>Cadastral Survey.</i>						
Anantapur	SQ. MLS. 5,377	SQ. MLS. ..	SQ. MLS. 5,377	SQ. MMS. 2,682	SQ. MLS. 587	SQ. MLS. 3,269
Malabar	5,677	1,045	4,632	2,207	876	3,083
South Canara	3,902	557	3,045	677	..	677
<i>Cadastral Re-survey.</i>						
Trichinopoly	2,500	..	2,500	932	..	932
Kistna	2,312	..	2,312	..	..	..
Godavari	3,590	..	3,590	..	..	..
Salem	2,935	..	2,935	..	..	..

District.	REMAINING TO BE SURVEYED.			Probable year of completion.	Remarks.
	Cadastral.	Topographical.	Total.		
	8	9	10		
<i>Cadastral Survey.</i>					
Anantapur	SQ. MLS. 2,090	SQ. MLS. 18	SQ. MLS. 2,108	1893-94	} Cadastral survey—G.O. No. 315, dated 22nd March 1897.
Malabar	1,549	..	1,549	1893-94	
South Canara	2,368	..	2,368	1894-95	
<i>Cadastral Re-survey.</i>					
Trichinopoly	1,568	..	1,568	1893-94	} Re-demarcation and re-survey ordered in following G.Os., No. 446, dated 22nd May 1891; No. 1084, dated 14th November 1891; No. 1129, dated 25th November 1891.
Kistna	2,312	..	2,312	} 1894-95	
Godavari	3,590	..	3,590		
Salem	2,935	..	2,935		

6. *Estimate for 1892-93.*—The following is the estimate of outturn expected for the year 1892-93:—

Party.	District.	Cadastral Survey.						Outturn. sq. mls.
II.	Anantapur	...	...	...	...	...	...	1,200
III.	Malabar	...	...	...	...	...	...	750
IV.	South Canara	...	...	...	...	...	...	750
Total ...								2,700

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Party.	District.	Cadastral Re-survey.	Outturn. sq. mls.
VI.	Trichinopoly	...	1,250
I.	Godavari	...	800
			800
Total			2,850
Grand Total			5,550

No. V Party will provide the skeleton of Theodolite work required for Survey Parties Nos. III and IV.

The above estimate is in accordance with the proposals approved in G.O., No. 1084, Revenue, dated 14th November 1891, paragraph 5, except that it has been thought prudent to reduce the area expected to be surveyed in the Godavari and Kistna districts from 2,000 square miles to 1,600 square miles, this being the first year during which the karnams will be employed. During the second year the outturn should be 2,000 square miles.

7. Cost of survey work to Government.—The total cost of the survey from its commencement in 1858 up to 1st April 1892, has been Rs. 202,14,768:—

Parties	...	...	...	...	...	...	Rs.
Central Office	...	...	...	...	...	...	175,17,418
							26,97,350
Total							202,14,768

This expenditure is further divided as below:—

Expenditure on	SURVEY.			Publication.	Total.
	Cadastral.	Topographical.	Total.		
1	2	3	4	5	6
I. Completed area	Rs. 168,96,946	Rs. 23,31,777	Rs. 192,28,723	Rs. 5,25,602	Rs. 197,54,325
II. Incomplete area	51,335		51,335	1,946	53,281
III. Miscellaneous work which cannot be expressed in area.	82,197	32,193	1,14,390	2,92,772	4,07,162
Total	170,30,478	23,63,970	193,94,448	8,20,320	202,14,768

Details under the three heads Completed area, Incomplete area, and Miscellaneous work which cannot be expressed in area are shown below:—

I.—Completed area.

Expenditure on	Scale, inches to 1 mile.	ON 1ST APRIL 1891.			ON 1ST APRIL 1892.		
		Area completed.	Total cost.	Rate per square mile.	Area completed.	Total cost.	Rate per square mile.
1	2	3	4	5	6	7	8
SURVEY.							
Cadastral.							
Demarcation	16	29,531	34,17,587	116 0 0	32,476	35,46,173	109 0 0
Field survey	16	65,625	129,47,674	197 0 0	68,670	133,60,773	195 0 0
Topographical.							
Various	Various	57,432	23,01,310	40 0 0	57,871	23,31,777	40 0 0
Publication.							
Government villages and coffee or tea plantations.	16	69,146	3,10,401	4 7 10	71,223	3,17,703	4 7 4
Non-Government villages	4	12,066	17,074	1 6 8	12,360	17,254	1 6 4
Taluk maps	1	95,594	1,09,591	1 1 10	1,02,071	1,09,888	1 1 3
District maps	1	77,485	70,861	0 14 8	81,195	71,513	0 14 1
Quarter Atlas sheets	1	63,946	9,244	0 2 9	63,940	9,244	0 2 9

BOARD OF REVENUE (REV. SETT., L. RDS. AND AGRI.), 25TH OCT. 1892, No. 701-23

II.—Incomplete area.

	Cadastral.	Topographical.	Total.
1	2	3	4
Survey.			
Anantapur	Rs. 15,313		15,313
Malabar	3,125		3,125
South Canara	32,897		32,897
Total, Survey	51,335		51,335
Publication.			
Government villages and coffee or tea plantations			361
Taluk and District maps			1,585
Total, Publication			1,946
Total outlay on Incomplete work			53,281

The total sum, Rs. 53,281, shown above as outstanding is Rs. 38,074 less than the amount similarly outstanding on 1st April 1891.

III.—Miscellaneous work which cannot be expressed in area.

SURVEY.

Cadastral.

Settlement of disputed boundaries—	Rs.
Travancore	47,545
Pudukota	21,671
French territory {Karikal	11,772
{Pondicherry (re-demarcation)	1,209
Total	82,197

Topographical.

Reconnaissance and theodolite work in zemindari and hill tracts handed over to the Survey of India for topographical survey—

Ganjam	Rs. 7,872
Vizagapatam	1,368
Madura	20,400
Tinnevely	2,553
Total	32,193

Publication.

Compilation and photo-zincography of various maps, plans and diagrams. 2,92,772

In the last annual report, paragraph 16, it was explained that during the four months' recess, June—September, the maps prepared during the past field season, October—May, are finished in office and prepared for photo-reduction together with the other fair records, registers, area lists, &c. This makes it impossible to give the exact cost of the area surveyed at present. But the cost has been most carefully estimated and the rates shown below will probably be found to be in excess of the actual cost which will be reported at the end of the recess in October. For the same reason, the difference between the area by Survey and by Revenue accounts showing the increase or decrease by survey cannot yet be stated exactly. The usual statement for the five taluks completed during the year will be submitted after the recess, as was done last year.*

* The period to which the general report of the Survey of India refers on its annual issue and submission to the Government of India in the Revenue and Agricultural Department commences on the 1st of October of each year and covers the twelve months following. Field operations usually commence in October and are carried on during the cold season generally for six months. During the hot weather and rains, the mapping, calculations and general records connected with the operations of the previous field season are completed. The "survey year," as it is termed, thus embraces a complete round of survey operations from the commencement of the field work to the completion and submission of the maps and records connected therewith—Report of the Survey of India Department for the year 1884-85, page 1.

The following statement shows the cost per square mile of taluks completed during the past five years:—

Cost of survey of completed taluks.

Year.	Area mapped.	Total outlay.	Average rate per square mile.	Remarks.
1887-88 .. 7 taluks finished	SQ. MLS. 2,669	RS. 8,51,246	RS. 319	
1888-89 .. 6 do.	1,732	4,68,733	265	
1889-90 .. 4 do.	1,399	3,65,902	262	
1890-91 .. 1. Medur and Kapileswarapuram estates	254	51,931	204	
2. Rayadrug	858	1,31,096	153	
3. Harpanahallo	466	90,754	195	
4. Walawanád	597	2,12,842	357	
Total ..	2,175	4,86,623	224	
1891-92 .. 1. Kistna delta zemindaris	536	1,18,824	222	Survey of zemindari lands not liable to water-rate.
2. Telaprole estate	45	9,734	216	Survey for the Court of Wards.
3. Anantapur	768	1,05,319	137	
4. Kurumbranád	348	1,22,464	352	
5. Kásaragód	655	1,49,295	228	
Total ..	2,352	5,05,636	216	

The rates for 1891-92 are subject to slight correction.

A revised statement showing actual rates will be submitted in October 1892 after the recess.

The rates shown above for the survey of the mamul wet lands (zemindari lands not liable to water-rate) in the Kistna delta zemindaris and for the survey for the Court of Wards of the Telaprole estate in the Kistna district, Rs. 222 and Rs. 216, respectively, include the cost of field stones for demarcation. For the mamul wet, this charge is borne by Government (G.O., No. 1117, dated 15th February 1890), and for the Telaprole survey it was advanced and will be hereafter recovered from the Court of Wards.

The stone accounts are not yet closed; but by careful estimate the rates for work, deducting cost of stones, are—Kistna delta zemindaris Rs. 183 and Telaprole estate Rs. 181. The rate for Anantapur, Rs. 137 per square mile, compares favorably with the average rate, Rs. 171, for the six taluks surveyed during the past four years in the Bellary district. The rate for Kurumbranád, Malabar district, Rs. 352 per square mile, although slightly less than in the two taluks already surveyed in the same district—Pálghat Rs. 370 and Walawanád Rs. 357—is still much higher than it should be owing to defective arrangements for which Mr. Baber was responsible. This matter was noticed in paragraph 11 of the G.O., No. 949, dated 10th October 1891, reviewing last year's report.

The rate for Kásaragód taluk, South Canara district, Rs. 228 per square mile, is, considering the difficult nature of the country, very satisfactory, and this is due to Mr. Thornhill's care and economy. The rates for miscellaneous salaries, as shown in appendix 5, column 16, have decreased during the year, particularly in Kistna and Anantapur. In Kurumbranád and Kásaragód, they were much higher than they should be—in Kurumbranád without sufficient reason and in Kásaragód because the taluk was in progress for a considerable time before the arrangements for reduction under this head were introduced.

8. *Cost of work to ryots.*—The cost of work to ryots was in Malabar 3 annas per-acre and in South Canara, where stone is more easily obtained, 1½ anna. In Anantapur and Trichinopoly, the ryots supplied the stones. In Kistna, for the delta zemindaris and non-Government villages (survey of zemindari lands not liable to water-rate) the stones were paid for by Government. For the Telaprole estate, under the Court of Wards, the cost of stones was advanced by Government, but bills for recovery of the cost from the zemindar will be sent to the Collector as soon as the accounts are closed.

9. *Survey advances.*—The following is a brief summary of the detailed report on the subject of survey advances submitted separately, as directed in G.O., No. 823, Revenue, dated 9th October 1889, para 4.

The permanent advance for contingencies to officers in charge of Parties was raised during 1891-92 from Rs. 2,500 to Rs. 3,000, the increase of Rs. 500 being the permanent advance to the Special Deputy Collector for Survey, Trichinopoly.

The temporary advance for demarcation stones on 1st April 1891 was Rs. 48,489. On 1st April 1892 it was Rs. 48,446. This sum is not in the custody of the Survey officers but in that of the District Treasury officers, payment to stone contractors being made direct from the treasury. The sums mentioned above are floating advances and limit the amount which may be outstanding at any given time. At the end of the year the total amount outstanding was Rs. 40,116. This sum is recoverable from ryots. Bills for the amount are being prepared during the recess, and, before the beginning of the next field season on the 1st October, bills for all villages completed during the past field season will be sent to the Collectors.

10. *Tests of accuracy.*—The theodolite work of the Madras Survey was connected with nine stations of the Great Trigonometrical Survey and checked by comparison of length of 8 sides of Great Trigonometrical Survey triangles. The mean error was 4.12 feet per mile and the largest error passed was 7.94 feet per mile, both figures being below the average of the past five years, viz., 6.78 feet and 17.99 feet respectively.

11. *Working of the Boundary Act.*—During the year 24 persons were fined under the Boundary Act for failing to attend when summoned to point out boundaries. The total amount of the fines levied was Rs. 72 and the heaviest fine was Rs. 10. During the previous year, 136 persons were fined and the total amount levied was Rs. 362. More than half the fines were inflicted in the Kistna district.

12. *Training of Revenue and Forest officers.*—The following Assistant Collectors were instructed in surveying:—

1. Mr. R. Ramachandra Row.	7. Mr. E. B. Elwin.
2. " J. P. Bedford.	8. " P. S. P. Rice.
3. " C. G. Todhunter.	9. " V. Venugopal Chetty.
4. " W. W. Phillips.	10. " L. Davidson.
5. " W. Francis.	11. " Mahommed Ali (Hyderabad Civil Service).
6. " W. E. Hall.	

Also 91 Revenue Inspectors, 1 Forest Ranger, 16 Clerks, 34 Taluk Gumastahs and 19 other persons.

The following statement shows the total number of Karnams and Revenue Inspectors in the Presidency who have up to date gone through a course of survey instruction:—

District.	Revenue Inspectors.	Karnams.	District.	Revenue Inspectors.	Karnams.
Ganjam	13		Malabar	26	
Vizagapatam	4		South Canara	11	
Godavari	39		Salem	26	53
Kistna	54		Coimbatore	55	
Nellore	30		Nilgiris	4	
Cuddapah	33		Madura	25	
Kurnool	31		Trichinopoly	23	
Bellary	39	89	South Arcot	34	442
Anantapur	29	62	Chingleput	31	
North Arcot	43		Tanjore	37	
Tinnevely	28		Total	615	646

13. *Training of Survey officers in Settlement.*—Mr. Greene, Assistant Superintendent, who was under instruction when the last annual report was submitted, completed his course with the Settlement Party, Malabar district, in July 1891.

14. *Service books.*—All service books have been written up to date.

15. *General remarks.*—In accordance with the proposals sanctioned by the Secretary of State in his despatch forwarded with G.O., No. 804, dated 31st August 1891, one Eurasian and two Native officers were promoted to the newly constituted gazetted grade of Assistant Superintendent, 3rd class.

Mr. Dene, Assistant Superintendent, 2nd class, died on 14th November 1891. He was a promising young officer and his loss is much regretted.

Mr. Baber, Deputy Superintendent, 2nd class, sub. *pro tem.*, having been convicted of criminal misappropriation of public funds, was dismissed from the service from 12th January 1892, and his re-employment in the public service was prohibited by notification in the Gazette, dated 7th June 1892.

The following points were noted in the Government Order reviewing the last annual report:—

G.O., No. 949, Revenue, dated 10th October 1891, paragraph 2—*Training of village karnams.*—Detailed proposals for the establishment of Survey schools in all the districts of the Madras Presidency were called for. These proposals were submitted with the Superintendent's report No. 151-G., dated 16th September 1891, approved in G.O., No. 1084, dated 11th November 1891.

The establishment of these schools forms, it is presumed, part of the duty of the Deputy Director of Land Records appointed in G.O., No. 775, Revenue, dated 20th August 1891—*vide* paragraph 3 of the Government Order.

Paragraph 3—*Re-survey of the Trichinopoly district.*—The re-survey of the Trichinopoly district was estimated to cost one lakh of rupees and occupy two years. The survey began in July 1891 and more than one-third of the area has been surveyed. The survey may possibly take a little more than two years, but will not cost more than one lakh of rupees.

Paragraph 4—*Employment of karnams as surveyors in districts, the survey of which is now in progress.*—It was proposed to supplement the professional work in districts where the survey is now in progress by employing the karnams as assistant surveyors in their own villages thereby increasing the outturn and reducing the cost. Arrangements to secure this are being made in Anantapur, Malabar and Canara. The estimate of outturn for 1892-93, paragraph 6 above, is framed accordingly. The result will appear in the next annual report.

Paragraph 7—*Survey of zemindari lands not liable to water-rate in the Kistna and Godavari districts.*—It was expected that the survey of zemindari lands not liable to water-rate in the Kistna district would be completed during 1891-92. This expectation has been realised. The report showing the areas of wet lands liable to water-rate as compared with the Revenue accounts will be submitted in October after the recess. A similar survey of the Godavari zemindaris was ordered in G.O., No. 446, dated 22nd May 1891, and will be undertaken during 1892-93.

Paragraph 8—*Employment of No. 1 Party.*—The proposal to transfer No. 1 Party from the Kistna district to South Canara was abandoned, Government having decided to employ the party in re-demarcating and re-surveying Government villages in Kistna and in making a re-survey of the Godavari district.

Paragraph 9—*Forest Surveys.*—It has been arranged that surveyors should be placed at the disposal of the Forest Department, and rules for the guidance of Survey and Forest officers were issued in Proceedings of the Board of Revenue, dated 20th April 1891, Forest No. 168. Surveyors have been placed at the disposal of the Forest Department for employment in the following districts:—

Godavari.	Kurnool.	Madura.
Kistna.	Cuddapah.	Tinnevely.
Anantapur.	North Arcot.	

Paragraph 10—*Survey of waste land blocks on the Nilgiris.*—A small establishment for this purpose is still employed under the Collector and paid for by the survey. The cost is trifling and can be met from the survey budget, and it is recommended that this arrangement should continue till further orders.

Paragraph 11—*Average cost per square mile of Cadastral Survey, particularly the item of miscellaneous salaries.*—Detailed report on this subject will be found in paragraph 7 above.

16. *List of appendices.*—The following appendices are attached to this report:—

- I. Outturn and expenditure of Survey Parties during 1891-92.
- II. Outturn and expenditure of the Central office during 1891-92.
- III. General abstract for 1891-92.
- IV. Area surveyed and remaining for survey in each district up to 31st March 1892.
- V. Cost of Survey work to Government.
- VI. Cost of work including share of the Central office.
- VII. Comparison of Revenue Survey with Great Trigonometrical survey.
- VIII. Outline sketch-maps of the Madras Presidency and of each district in progress showing progress of Survey up to 31st March 1892.

(Signed) H. O'C. CARDOZO,
Superintendent, Madras Survey.

APPENDIX No. I.

OUTTURN and expenditure of Survey Parties during 1891-92.

Parties.						CADASTRAL SURVEY—16-INCH SCALE.			Expenditure.	
						Theodolite survey.	Plane-table survey.			
							Traversed.	Fields surveyed.		
								Ordinary.		Special.
Survey Parties.						SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
I	..	..	..	..	..	264	438	..	89,388	
II	..	..	..	..	..	331	711	..	77,904	
III	..	..	..	..	..	125	244	..	70,360	
IV	..	..	..	..	..	678	292	• 302	66,689	
V	..	..	..	..	..	337	328	..	96,677	
Total ..						1,735	2,013	302	4,01,018	
Re-survey Party.						.. <th>932<th>..<th>25,470</th></th></th>	932 <th>..<th>25,470</th></th>	.. <th>25,470</th>	25,470	
VI	..	..	..	..	..	..	932	..	25,470	
Grand Total ..						1,735	2,945	302	4,26,488	

* Mapped on 8-inch Scale.

Parties.							TOPOGRAPHICAL SURVEY—8 AND 4 INCH SCALES.			Expenditure.	
							Theodolite survey.		Plane-table survey.		
									Plane-tabled.		
							Triangulated or traversed.		Ordinary.		Special.
Survey Parties.							SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
I	..	..	..	..	..	..	23	26	..	1,474	
II	..	..	..	..	..	..	76	74	37	8,681	
III	..	..	..	..	..	..	..	..	..	85	
IV	..	..	..	..	..	..	..	..	..	..	
V	..	..	..	..	..	..	..	..	..	..	
Total							99	100	37	10,240	
Re-survey Party.							..	..	..	..	
VI	..	..	..	..	..	..	..	..	..	..	
Grand Total							99	100	37	10,240	

APPENDIX No. II.

OUTTURN and expenditure of Central Office during 1891-92.

Maps published.	Scale inches to 1 mile.	Area in square miles.	Cost of finished work including expenditure during pro- vious years.	Rate per square mile.
Government villages	8	2,014	Rs. 5,237	Rs. A. P. 2 9 7
Non-Government villages	4	294	152	0 8 3
Coffee or tea plantations	16	63	334	14 13 2
Taluk	1	6,477	2,786	0 6 11
District	1	3,710	551	0 2 5
Miscellaneous		Copies 166,826	16,830	0 1 7
Share of Central office debitable to Parties			91,917	..
Add outlay on incomplete work on 1st April 1892	Total ..	..	1,18,437	..
			1,946	..
Deduct outlay on incomplete work on 1st April 1891	Total ..	..	1,20,384	..
			1,687	..
Expenditure of Central office during 1891-92			1,18,696	..

Year.	LITHOGRAPHED.		Supplied for Government purposes.	SOLD TO PRIVATE INDIVIDUALS.	
	Copies.	Fulls.	Copies.	Copies.	Price.
1889-90	167,897	164,401	93,906	420	Rs. A. P. 890 0 0
1890-91	166,065	146,537	135,168	813	1,911 4 0
1891-92	199,836	181,406	169,816	485	1,274 8 0

APPENDIX No. III.
GENERAL abstract for 1891-92.

Area surveyed and remaining for survey.	Revenue.	Topographi- cal.	Total.
1	2	3	4
Total estimated area of Presidency by latest calculation.	SQ. MLS. 73,539	SQ. MLS. 69,559	SQ. MLS. 143,098
Surveyed up to end of 1890-91	64,680	56,618	121,298
Add area surveyed but omitted in the reports of previous years.	9	725	734
Surveyed in 1891-92	1,572	74	1,646
Surveyed up to end of 1891-92	66,261	57,417	123,678
Transfer of area from Topographical to Revenue.	+ 1,270	- 1,270	..
Total surveyed up to end of 1891-92	67,531	56,147	123,678
Handed over to Survey of India	..	13,385	13,385
Balance for survey by Madras Survey	6,007	18	6,025

NOTE.—The area shown above as transferred from Topographical to Revenue is the area once surveyed topographically but again surveyed cadastrally.

YEAR.	OUTTURN AND OUTLAY.							Quarter Sheets Atlas of India.	Cost.
	Area mapped by parties.			Area published in Central office.					
	Scale.			Scale.					
	16"	8" and 4"	2" and 1"	16"	4" "	1"	1/2"		
1	2	3	4	5	6	7	8	9	10
During 1890-91 ..	SQ. MLS. 2,227	SQ. MLS. 620	SQ. MLS. ..	SQ. MLS. 2,059	SQ. MLS. 67	SQ. MLS. 3,068	SQ. MLS. 7,501	SQ. MLS. ..	RS. 5,87,811
During 1891-92 ..	2,915	439	..	2,077	294	6,477	3,710	..	5,56,424
Up to 31st March 1891 ..	65,825	13,769	43,663	69,146	12,066	95,594	77,485	53,940	190,59,344
Up to 31st March 1892 ..	68,570	14,208	43,663	71,223	12,389	102,071	81,195	53,940	202,14,708

NOTE.—The area published includes area of maps reprinted.

The difference between the area mapped by parties and the area surveyed during 1891-92 is the area surveyed once before either cadastrally or topographically and of special and miscellaneous surveys, details of which are given below:—

Revenue.	SQ. MLS.
Area surveyed	1,572
Area mapped by Parties	2,945

Area already shown in previous years as either cadastrally or topographically surveyed:—

	SQ. MLS.
Medur and Kapileswarapuram, Nuzvid zemindari, Kistna district	19
Tsallapalli zemindari, Kistna district	2
Vallur and Kurtivenu zemindaries and Nuzvid wet villages, Kistna district	280
Non-Government villages in Guduvada, Repalle, Bapatla, Guntur, Bezvada and Bandar taluks, Kistna district	92
Telaprole estate, Kistna district	45
Re-survey of Trichinopoly taluk	344
Do. of Kulitalai	350
Do. of Musiri	233

Difference 1,373

Total	1,370
Add area of the settlements of Anjengo, Tangacheri and Cochin	3
Total	1,373

Topographical. SQ. MLS.

Area surveyed	74
Area mapped by Parties	439

Area already shown in previous years as either cadastrally or topographically surveyed:—

	SQ. MLS.
Medur and Kapileswarapuram estates, Nuzvid zemindari, Kistna district	3
Telaprole estate, Kistna district	23
Palni Hills, Madura district	21
Kottagudi forests, Periyakulam taluk, Madura district	16

Difference 365

Total	63
Add area of special survey of kumari cultivation in the excluded villages of Kasaragod taluk, South Canara district	302
Total	365

APPENDIX No. IV.

Area surveyed and remaining for survey in each district up to 31st March 1892.

Districts.	Total area of each district, square miles.		Area for topographical survey by the Survey of India, square miles.	Balance for survey by the Madras Survey Department, square miles.	Surveyed by the Madras Survey Department, square miles.			Balance for survey by the Madras Survey Department, square miles.		
	Survey area.	Estimated area.			Revenue.	Topographical.	Total.	Revenue.	Topographical.	Total.
1	2	3	4	5	6	7	8	9	10	11
SURVEY AREA.										
ESTIMATED AREA.										
Ganjam ..	..	8,369	3,252	5,117	1,661	3,456	5,117	..	..	..
Vizagapatam ..	..	17,223	5,931	11,292	607	10,785	11,292	..	..	..
Godavari ..	7,972	..	..	7,972	2,907	5,065	7,972	..	..	..
Kistna ..	8,478	..	..	8,478	6,433	2,045	8,478	..	..	..
Kurnool ..	7,769	..	..	7,769	4,840	2,929	7,769	..	..	..
Bellary ..	6,141	..	..	6,141	5,374	767	6,141	..	..	..
Anantapur ..	..	5,377	..	5,377	2,682	2,695	5,377	2,090	18	2,108
Cuddapah ..	8,723	..	..	8,723	6,422	2,301	8,723	..	..	..
Nellore ..	8,760	..	..	8,760	4,233	4,527	8,760	..	..	..
Chingleput ..	2,840	..	..	2,840	2,107	733	2,840	..	..	..
Madras ..	29	..	..	29	29	..	29	..	..	..
North Arcot ..	7,620	..	..	7,620	2,852	4,768	7,620	..	..	..
South Arcot ..	5,218	..	..	5,218	4,667	551	5,218	..	..	..
Salem ..	7,861	..	..	7,861	3,658	4,203	7,861	..	..	..
Coimbatore ..	7,861	..	..	7,861	5,175	2,686	7,861	..	..	..
Nilgiris ..	957	..	..	957	603	354	957	..	..	..
Malabar ..	..	5,677	1,045	4,632	2,207	2,425	4,632	1,549	..	1,549
Trichinopoly ..	..	4,733	1,100	3,633	2,701	932	3,633	..	..	..
Tanjore ..	3,708	..	..	3,708	2,592	1,116	3,708	..	..	..
Madura ..	..	8,813	618	8,195	3,124	5,071	8,195	..	..	..
Tinnevely ..	..	5,389	582	4,807	3,080	1,727	4,807	..	..	..
South Canara ..	..	3,902	557	3,345	677	..	3,345	2,368	..	2,368
Total ..	83,605	59,483	13,385	129,703	67,531	56,147	123,678	6,007	18	6,025
Area ordered to be resurveyed.										
Trichinopoly ..	..	2,500	..	2,500	932	..	932	1,568	..	1,568
Kistna ..	..	2,312	..	2,312	..	..	..	2,312	..	2,312
Godavari ..	..	3,590	..	3,590	..	..	..	3,590	..	3,590
Salem ..	..	2,935	..	2,935	..	..	..	2,935	..	2,935
Total ..	..	11,337	..	11,337	932	..	932	10,405	..	10,405
Grand total area remaining to be surveyed ..								16,412	18	16,430

Note 1.—Columns 2 and 3.—Total area of the Presidency as given in the annual report for 1890-91 ... 141,213
Total area of the Presidency as shown in this report... 143,088
Difference ... + 1,875

This difference is due to revision of areas according to recent calculation.

Note 2.—Columns 6 and 7.—Area surveyed up to 31st March 1891 ... 64,680 56,618
Appendix No. IV to annual report for 1890-91 ...
Surveyed in 1891-92 ... 1,572 74
See Appendix No. III to this report ...
Total ... 66,252 56,692
Area surveyed up to 31st March 1892 ... 67,531 56,147
As shown in this Appendix ...
Difference ... + 1,279 — 545

This difference is due to the revision of areas mentioned above and also to the transfer from column 7, Topographical, to column 6, Revenue, of area once surveyed topographically but again surveyed cadastrally. See Appendix No. III to this report.

	Square miles.	
	Revenue.	Topographical.
Area surveyed but omitted in the reports of previous years ...	9	725
Area transferred from Topographical to Revenue ...	1,270	— 1,270
Total ...	1,279	— 545

APPENDIX No. V.

Cost of Survey work to Government.

Party.	District.	Taluk.	WORK CHARGES—RATE PER SQUARE MILE.										SUNDY CHARGES—RATE PER SQUARE MILE.										Total rate per square mile.	Total expenditure on which the rate was calculated.	Remarks.										
			Area mapped on 16-inch scale.								Marking stations.		Traverse computation.		Traverse plotting.		Field demarcation.		Field measurement.		Plane tabling.					Finishing.		Total.		Officer's supervision.		Petty supervision.		Miscellaneous salaries.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23													
			SQ. MLS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.														
I	Kistna ..	Standard ..	536	2	3	2	1	12	17	21	13	71	44	19	15	16	18	39	151	222	1,18,824														
		Kistna Delta zemindari.		3	9	2	3	9	13	13	13	65	47	22	13	17	17	35	151	216	9,734														
		Talaprole estate ..	45	3	9	2	3	9	13	13	13	65	47	22	13	17	17	35	151	216	9,734														
II	Anantapur ..	Anantapur ..	768	2	6	2	2	6	7	13	12	50	29	18	10	16	11	3	87	137	1,05,319														
III	Malabar ..	Kurumbanad ..	348	8	21	5	2	15	35	27	20	123	74	47	35	35	29	9	229	352	1,22,464														
IV	South Canara ..	Kasaragod ..	655	7	16	4	1	9	14	19	7	77	54	20	30	27	13	7	151	228	1,40,295														
		Total ..	2,352																		5,05,636														
		Average rate per square mile ..																																	

APPENDIX No. VI.

Cost of work including share of Central office.

Nature of work.	Scale inches to a mile.	Up to 31st MARCH 1891.			Up to 31st MARCH 1892.		
		Outturn.	Outlay.	Rate per square mile.	Outturn.	Outlay.	Rate per square mile.
COMPLETED AREA.		SQ. MLS.	RS.	RS. A. P.	SQ. MLS.	RS.	RS. A. P.
Cadastral Survey.							
	16	29,531	34,17,587	116 0 0	32,476	35,46,173	109 0 0
Demarcation	16	65,625	129,47,674	197 0 0	68,570	133,3,773	195 0 0
Field survey	Various.	57,432	23,01,310	40 0 0	57,871	23,31,777	40 0 0
Topographical survey							
Publication.							
	16	69,146	3,10,401	4 7 10	71,223	3,17,703	4 7 4
Government villages and coffee or tea plantations.							
	4	12,066	17,074	1 6 8	12,360	17,254	1 6 4
Non-Government villages	1	95,594	1,06,591	1 1 10	102,071	1,09,888	1 1 3
Taluk maps	1	77,485	70,861	0 14 8	81,195	71,513	0 14 1
District maps	1	53,940	9,244	0 2 9	53,940	9,244	0 2 9
Quarter atlas sheets	1						
Incomplete Area.							
			89,552	..		51,335	..
Cadastral survey			116	..		1,946	..
Topographical survey			1,687	..			..
Publication							
Miscellaneous work which cannot be expressed in area.							
			82,197	..		82,197	..
Cadastral survey			32,193	..		32,193	..
Topographical survey			2,72,857	..		2,92,772	..
Publication							
Total ..			196,59,344	..		202,14,768	..

APPENDIX No. VII.

COMPARISON of Revenue Survey with Great Trigonometrical Survey.

District.	STATIONS.		Distance in feet.		Difference.	Error per mile.
	From	To	By Trigonometrical survey.	By Revenue survey.		
1	2	3	4	5	6	7
South Canara ..	Passodigumpe, H.S. ..	Backul Fort Cavalier ..	101,670	101,662	— 8	— 0.42
	Muchil, H.S. ..	Do. do. ..	131,805	131,607	— 198	— 7.93
	Passodigumpe, H.S. ..	Muchil, H.S. ..	109,076	109,240	+ 164	+ 7.94
Malabar ..	Purakod, S. ..	Dharmapatna, S. ..	125,163	125,274	+ 111	+ 4.68
	Nattavaram, H.S. ..	Purakod, S. ..	106,402	106,416	+ 14	+ 0.69
	Dharmapatna, S. ..	Nattavaram, H.S. ..	116,264	116,320	+ 56	+ 2.54
Anantapur ..	Daverkondah, H.S. ..	Cheaiddrug Cavalier ..	34,777	34,825	+ 48	+ 7.28
	Cheaiddrug Cavalier ..	Dodhotah Fort ..	81,429	81,399	— 30	— 1.95
Number of distances compared ..			8	Average error, Revenue Survey ..		4.12
Number of stations ..			9	Greatest error passed ..		7.94

dated 14th September 1892, No. 971, Revenue.

Miscellaneous.

With his letter read above, Mr. Cardozo submits his report on the administration of the Madras Survey Department during the year 1891-92.

2. The most interesting feature of the year's operations was the re-survey of the Trichinopoly district which was in progress during the greater portion of the year. This work was entrusted to a separate Party under the direction of a Special Deputy Collector and was carried on mainly through the instrumentality of village eurnams. According to the Superintendent's original estimate the outturn expected from the Party during the year was about 1,250 square miles and the expenditure Rs. 50,000, or Rs. 40 per square mile. Owing, however, to the fact that the work was not commenced until about three months after the beginning of the year, the Superintendent, in his supplementary budget, sanctioned in G.O., dated 10th August 1891, No. 4418, reduced the amount of expenditure for the year to Rs. 38,681. No reduction, however, was made in the estimate of outturn, though it was understood that it would be reduced in proportion to the expenditure, i.e., to about 1,000 square miles. The actual outturn during the year was 932 square miles and the cost Rs. 25,470, or only Rs. 27½ per square mile. This figure does not include the cost of examining and finishing the block maps for photo reduction, but the Superintendent states that the expenditure on these processes will not bring up the cost per square mile to more than the estimated rate of Rs. 40. The figure in question does not moreover include, as it apparently should, any portion of the charges of the Central office. The results so far achieved are, the Government considers, on the whole highly satisfactory and reflect credit on the care and economy of the Special Deputy Collector, M.R.Ry. Narayana Iyer Avergal. It is a matter for great satisfaction to His Excellency the Governor in Council that the anticipations expressed in last year's review of obtaining reliable work at a low cost have been so fully realized and that the completion of the re-survey of the district within the estimated cost of one lakh of rupees is now no longer a matter of doubt. The Superintendent promises to embody in his next annual report the result of the further experiment of supplementing the professional work of the department, in the other districts where survey is now in progress, by employing eurnams as Assistant Surveyors in their own villages, and thereby increasing the outturn and reducing the cost. The report on this point will be awaited with interest.

3. Turning from the special work of re-survey carried out in the Trichinopoly district, the Government proceeds to review the results of the ordinary work of the five cadastral Survey Parties in the remainder of the Presidency. The Committee which sat in 1887 to consider the proposals of the Finance Commission on the subject of the reduction in the Survey and Settlement Departments did not anticipate the re-survey of the Trichinopoly district, and that district was consequently not included in the forecast approved in G.O., dated 22nd March 1887, No. 315. According to the Committee's forecast, the estimated outturn of cadastral survey for the year under review was fixed at 1,900 square miles and the cost at Rs. 6,00,000. These estimates were subsequently reduced by the Superintendent with the approval and sanction of Government to 1,893 square miles and Rs. 5,50,000. The budget estimate of expenditure for 1891-92 was, however, fixed at 6,00,000, owing to a proposed increase in the pay of the Superintendent and to some other causes, but in the revised estimate this figure was again reduced to 5,50,000. The actual outturn was 2,013 square miles of cadastral, 137 square miles of topographical and 302 square miles of special and miscellaneous cadastral surveys, and the total expenditure, including the whole cost on account of the Central office, was only about Rs. 5,30,000. The following statement compares the outturn expected from the several Parties by the Committee of 1887 and by the Superintendent in his last report with the actuals of the year:—

Parties.	ESTIMATE.		ACTUALS.		
	Cadastral survey.		Topographical, miscellaneous and special surveys.		
	By the Committee of 1887.	By the Superintendent.	Cadastral survey.	Topographical.	Special cadastral.
Party No.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
I	309	293	438	26	..
II	700	700	711	111	..
III	300	300	244	..	..
IV	300	300	292	..	302
V	300	300	328	..	..
Total	1,900	1,893	2,013	137	302
Party No. VI * (re-survey)	..	1,250	932	..	..

* Not anticipated by the Committee of 1887.

The figures in the above statement relating to actuals which have been taken from the body of the report do not tally with those given in Appendix III, where it is stated that the areas of revenue and topographical survey completed during the year under review were 1,572 and 74 square miles, respectively. This discrepancy should be explained.

4. The outturn of all the Parties was satisfactory and that of Parties Nos. I and IV excellent. The inability of Party No. III to work up to the estimate is satisfactorily explained by the fact that some of its hands were transferred to Party No. V for special survey work connected with the settlement of Malabar. Mr. Thornhill, who was in charge of No. IV Party, deserves special commendation for the economy with which he has conducted survey operations in South Canara. Party No. I was engaged in the survey of the Delta zemindaries, of certain estates under the Court of Wards and of certain non-Government villages in the Kistna district and has completed the work for which it was originally deputed to the district. The 111 miles of topographical survey given as part of the outturn of Party No. II were undertaken in connection with certain inam villages and forest and hill tracts in Anantapur and Madura, and the balance remaining to be so surveyed at the close of the year is shown as 18 square miles. Party No. III did very little extra work, but Party No. V completed, in addition to the 328 square miles mentioned in the foregoing statement, the field survey of 279 square miles in Palghat and 186 square miles in Walawanad in connection with the settlement operations now being carried on in Malabar.

5. The usual information regarding the total cost of the several survey items up to date and the rate per square mile on the total area surveyed is not given in the statements appended to paragraph 4 of the report under review, the Superintendent having substituted in its place information relating to the recess work relating to maps and records. The Government desires that information on all the abovenamed subjects should be given in future reports. It is satisfactory to find that the average cost of survey in the taluks completed during 1891-92 (Rs. 215 per square mile) is still further below the standard rate (Rs. 250) than the corresponding figure for 1890-91 (Rs. 224). The rates for the year under review are, however, the Government observes, only approximate and subject to slight correction. The rate in Malabar was, as usual, very high, being almost the same as in the previous year, and the Superintendent is apparently not satisfied with the explanations on this point received from the Deputy Superintendents. Making due allowances for the peculiarities of the district, the Government is of opinion that the cost, which exceeds the standard rate by over Rs. 100 per square mile, is capable of very considerable reduction, and the Superintendent will be requested to give his special attention to the matter. There was a satisfactory decrease as compared with the previous year's figure in the rates for miscellaneous salaries in the Kistna and Anantapur districts. The rates are still high in Malabar and South Canara, and will, it is hoped, be reduced during the current year. For the reason stated in the beginning of this paragraph, the rate of expenditure per square mile on account of the several items of special and miscellaneous surveys

can be ascertained. The total expenditure on special and miscellaneous surveys shows an increase of 21 per cent. over the figures for the previous year; the Superintendent's statement "that this increase was unavoidable" requires further explanation.

6. In the concluding sentence of paragraph 9 of G.O., No. 949, dated 10th October 1891, the Government ordered that the survey of all the forests in Bellary and Anantapur should be carried out by the Madras Revenue Survey Department. With reference to this, the Superintendent reports that surveyors have been placed at the disposal of the Forest Department for employment in the districts of Godavari, Kistna, Anantapur, Kurnool, Cuddapah, North Arcot, Madura and Tinnevely. The Government requires some further information on this subject and the Commissioners of Land Revenue will accordingly be requested to submit a report at an early date on the action taken by them in furtherance of the orders above referred to. Mr. Cardozo's recommendation regarding the continuance of the special establishment for the survey of waste land blocks on the Nilgiris is accepted.

7. The Superintendent's forecast of outturn for the year 1892-93 is 2,700 square miles of ordinary cadastral survey work in Anantapur, Malabar and South Canara, and 2,850 square miles of cadastral re-survey in Trichinopoly, Kistna and Godavari. The figure under ordinary cadastral survey is almost double that estimated by the Committee of 1887, and if the forecast be realized, the large increase will be entirely due to the employment of curnams as assistant surveyors alluded to in paragraph 2 *supra*. It was stated in paragraph 7 of last year's review that the question of the re-survey of the zemindaries of Godavari district would be considered after the full effect of the Kistna survey was ascertained. The report on the results of the latter survey has not yet been received, but the Superintendent promises to submit it in October next. Meanwhile the Government has, in G.O., No. 1084, dated 14th November 1891, sanctioned the Superintendent's proposal to retain No. 1 Party on the Eastern Coast and to employ it in making a re-survey of the Godavari district and of the Government villages in the Kistna district. The establishment of schools for the training of curnams in Surveying, which, as the Superintendent presumes, is a legitimate part of the duty of the Deputy Director, Land Records and Agriculture (Land Records Branch), should receive the very early attention of the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture.

8. With the exception of Messrs. Baber and Martin, the several officers in charge of Parties spent a fair proportion of their time in field inspection work. Mr. Baber has nearly always been a delinquent in this respect, but as he is no longer in the public service, it is unnecessary to pass any remarks on the subject of his neglect of this important part of a Survey officer's duties. Mr. Martin will, it is hoped, spend more time in camp during the current year.

9. In conclusion, His Excellency the Governor in Council desires to express his satisfaction with the working of the department generally during the year and to compliment Mr. Cardozo on the administrative ability which he has displayed in introducing a considerable economy in expenditure while maintaining unimpaired the efficiency of the department.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Superintendent, Madras Survey.
" Commissioner of Revenue Settlement, Land Records and Agriculture.
" Commissioners of Land Revenue.
" Financial Department.
" Accountant-General.
Copy to the Resident in Travancore and Cochin (through the Political Department).

RESOLUTION—dated 25th October 1892, No. 701.

Communicated to all Collectors for information.

2. With reference to the concluding portion of paragraph 7 of the Government Order, Mr. Wynch will be requested to submit at an early date definite proposals for the training of karnams in survey on the lines suggested in paragraph 1 of Mr. Cardozo's letter printed in G.O., dated 14th November 1891, No. 1084. Estimate of the amount required for the purpose in the current and ensuing years should also be submitted.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

(True Copy.)

(Signed) T. SUNDARA RAO,
Ag. First Assistant.

To all Collectors.
To the Deputy Director of Land Records and Agriculture.
" Officers in charge of Settlement Parties.
" Superintendent, Revenue Survey.

Exd. W. J. Lewis.

1892.
Board of Revenue
(Revenue Settlement, Land Records
and Agriculture),
MADRAS.

Printed November 18th.

Proceedings, 25th October 1892, No. 701.

Communicating Government Order, Revenue
Department, reviewing the report of the Madras
Survey Department for 1891-92; and requesting
the Deputy Director, Land Records and Agri-
culture, to submit proposals for the training of
karnams in survey.

G. O. Form No. 57.

SURVEY OFFICE,

Camp South Canara District

Camp No. 34.

1st March 1893

From

H. O. C. Cardozo, Esq.,

SUPERINTENDENT, MADRAS SURVEY,

To

THE SECRETARY TO GOVERNMENT,

REVENUE DEPARTMENT.

SIR,

Reference report of
Superintendent of
Survey to Government
No. 102 dated 11 July 1888
printed with G.O. No. 624
Revenue, dated 14 September
1888, on the Special
Survey of two villages in
the Godavari delta.

In continuation of
my letter No. 214
dated 26 November 1892.
I have the honor to
submit the following
report on the survey of
permanently settled Estates or Zamindari
lands in the Kistna Delta.

The object of the Survey was
to ascertain the true area of lands
which were under wet cultivation
before the present irrigation

wet or old irrigation), of lands
since irrigated (new irrigation)
and of other lands within the
permanently settled estates.

The cultivated lands are further
subdivided into alienated
(Inam) and unalienated (Seri)
property of the Zemindars.

2. The Survey was sanctioned
in the following orders of Government.

No. 6981 Revenue dated 28 October 1889

No. 10 Revenue dated 14 January 1890

No. 861 Revenue dated 7 November 1890.

3. The Survey was carried
out by No. I Party under
Mr. Maltby, Deputy Superin-

tendent. It began in
April 1890 and was finished
in June 1892. There has
been much delay in obtaining

the results of the Survey from
Mr. Maltby who at first submitted
area lists in which the old and
new irrigation in Inam lands
were not separated. This has
now been rectified and the
following statement shows the
area by Revenue accounts com-
pared with that by Survey of
the old irrigation, new irrigation,
dry cultivation, culturable waste
and foramboke or land reserved
for public purposes, in a total
area of 676 square miles comprising
the delta-portion of 6 permanent-
ly settled estates viz-

1. Tallapalle

2. Gudur

3. Tallur

4. Kurthuvuru

5. Teleprole

6. Kuzvid

and 82. 1. Tched agharam

and Shrotrium villages lying

to the 6 Estates of

1. Gudivada

2. Rapatla

3. Repalle

4. Bezvada

5. Gunter

6. Bandar.

Particulars	Area in acres				
	sq mils	Survey	Increase by survey	Percentage of Increase	
1	2	3	4	5	
Old Irrigation	{ Seri	36232	38414	2182	6
	{ Swamp	5	5666	133	2
New Irrigation	{ Seri	61 1/2	63739	2873	5
	{ Swamp	1 3/4	9037	144	2
Dry Cultivation	{ Seri	16 1/2	172635	5414	3
	{ Swamp	25358	26049	691	3
Culturable Waste		32133	32758	625	3
Oramboke		74663	80779	6116	8
Total acres		410899	429077	18178	4
Total Square Miles		642	670	28	4

The details for each Estate are given in Appendix No. 1

It would appear from the above statement that about 5000 acres of wet cultivation properly liable to water rate have hitherto received free irrigation. But as in localising the old irrigation, the Surveyors have had nothing to guide them beyond the statements of the Karnams and Revenue Inspectors the figures given above are subject to revision after investigation by a responsible Revenue Officer.

4. Village maps on the scale of 16 inches = 1 mile have been prepared in manuscript for the whole of the 670 square miles and the manuscript maps have been reduced by photography and printed on the scale 8 inches = 1 mile. A specimen map colored to show old and new

irrigation as localised by the
Surveyors dry cultivation and
waste and a Field Register
are submitted. Appendices
2 and 3.

5. The total cost of the survey
including the cost of stone
boundary marks has been
Rs 14,5808 or Rs 218 per square mile.
See appendix No 14

Want of sufficient data
made it difficult to prepare
an accurate estimate of the
cost, before survey.

Colonel Rogers in his
report No 38 dated 11 July 1884
estimated the probable rate
per square mile at Rs 590.

The experimental survey made
in two villages, cost Rs 1045
per square mile.

In my report on that
survey No 102 dated 11 Jan 1888 I roughly

printed with
G.O. dated 10th
October 1884
No 1113 Revenue.

printed with
G.O. dated
14 September 1888
No 624 Revenue.

estimate the cost of survey of
the irrigated Zamindari lands
in the Savari and Kistna
deltas, at zether about 1100 square
miles, at about 3 lakhs or about
Rs 270 per square mile. But this
did not include the cost of stone
boundary marks which I then
estimated at Rs 250 per square
mile. About two years later,
in my letter No 175 dated 23rd

printed with
G.O. dated 1st
November 1890
No 861 Revenue.

October 1890, I reported that the
cost would probably not exceed
Rs 100 for work and Rs 50 for stones
but this did not include the
cost of theodolite work which
was afterwards found necessary.

The actual rate was Rs 179
for work and Rs 39 for stones,
total Rs 218. This includes the
cost of stone boundary marks.

which in ordinary seasons is paid
by the ryots.

6. It should be remembered
that this survey was made
under conditions which no
longer exist. The recent
employment of Kammams
as surveyors and the cheaper
method of survey lately in-
troduced will greatly lessen
the cost of work in the Godavari
District. The standard rate
for this District approved in
G.O. No. 1084 Revenue dated 14th
November 1891 is Rs 64 per square
mile and this includes the
cost of stone boundary marks
in the now-government villages.

7. The return of the

15
Government Villages in the Western
delta or as in G.O. No. 446
Revenue, dated 22 May 1891 and
the survey of Zemindari lands
not liable to water rate ordered
in para 5 of G.O. No. 1084 Revenue
dated 14 November 1891 is now
in progress. The Collector
has recently pointed out that
the survey of Zemindari lands
which are liable to water
rate has not been ordered
and the Board (Revenue Settlement)
in their Proceedings No. 37
Miscellaneous dated 10 January
1893 have ruled that the
re-survey of Zemindari and
private villages in which there
is no old irrigation is not
contemplated. But as it would
appear the previous orders

of Government quoted in the margin the
 the Survey of old irrigation necessary
 involves the Survey of new irrigation, I
 beg that the formal sanction of Government may now be
 accorded to the field Survey of all Zemindari lands
 within the delta.

N: 734 Revenue, dated 11th June 1884.
 N: 693 Revenue, dated 10th June 1885.
 N: 624 Revenue dated 4th September 1888.
 N: 38 Revenue dated 25th January 1889.
 N: 10 Revenue dated 4th January 1890.

I have the honor to be
 Sir
 Your most obedt. servant
 L. J.

Superintendent
 Madras Survey.

Revenue 1893. *Dep't*

Above the line for the use of the Receiving Office.

From

H. O.C. Cardozo, Esq.,
SUPERINTENDENT, MADRAS SURVEY,

To

THE SECRETARY TO GOVERNMENT,
REVENUE DEPARTMENT.

Dated

Received

Enclosures

Camp
No. 34

SUBJECT

Survey of permanently
settled estates or *Samina*
-dari lands in the
Kistna delta.

Submitting reports
on the —

*Plaza f...
R.P. 12.1.93 no 39
g... in p... 9
R.V.
74 7/4
7/4*

*... of the
... of the
... of the
... of the*

Particulars

Area in acres

Particulars	Revenue accounts	Survey	Increase decrease by Survey difference	Percentage of difference
	2	3	4	5
Irrigation { <i>Seri</i>	145	145		
Irrigation { <i>Inam</i>				
Two irrigation { <i>Seri</i>	2193	2235	+ 42	+ 2
Two irrigation { <i>Inam</i>	720	726	+ 6	+ 1
Dry cultivation { <i>Seri</i>	9732	9752	+ 20	
Dry cultivation { <i>Inam</i>	2442	2371	- 71	- 3
Culturable waste	11	12	- 2	- 15
Pranlooke	2281	2232	- 49	- 2
Total	17427	17373	- 54	
Irrigation { <i>Seri</i>	588	1061	+ 473	+ 80
Irrigation { <i>Inam</i>	8	10	+ 2	+ 25
Two irrigation { <i>Seri</i>	657	933	+ 276	+ 42
Two irrigation { <i>Inam</i>	85	101	+ 16	+ 19
Dry cultivation { <i>Seri</i>	3142	3869	+ 727	+ 23
Dry cultivation { <i>Inam</i>	348	568	+ 220	+ 63
Culturable waste	8532	9105	+ 573	+ 7
Pranlooke	6705	9066	+ 2361	+ 35
Total	20065	21713	+ 1648	+ 23

Kishna Delta Zimindaris and now Government villages.
Comparison of Survey areas with Revenue areas.

Particulars	Area in acres				
	Revenue accounts	Survey	Increase Decrease by Survey	Percentage of difference	
1	2	3	4	5	
Kishna Delta Zimindaris					
Old Irrigation {					
Seri	5,359	5,718	+ 359	+ 7	
Inam	67	83	+ 16	+ 11	
New Irrigation {					
Seri	7,858	8,132	+ 274	+ 3	
Inam	356	335	- 21	- 6	
Dry Cultivation {					
Seri	68,208	70,461	+ 2,253	+ 3	
Inam	2,278	2,189	+ 211	+ 9	
Culturable waste	1,713	1,451	- 262	- 6	
Poramboke	19,740	18,150	- 1,590	- 8	
Total	108,579	109,819	+ 1,240	+ 1	
Kishna Delta Government villages					
Old Irrigation {					
Seri	11,789	11,817	+ 28		
Inam	3,113	3,107	- 6		
New Irrigation {					
Seri	9,815	10,270	+ 455	+ 5	
Inam	1,727	1,694	- 35	- 2	
Dry Cultivation {					
Seri	11,216	11,630	+ 414	+ 4	
Inam	12,45	12,71	+ 26	+ 2	
Culturable waste	1,793	1,470	- 323	- 7	
Poramboke	10,181	9,829	- 352	- 3	
Total	53,881	54,088	+ 207	-	

Particulars	Area in acres				
	Revenue accounts	Survey	Increase Decrease by Survey	Percentage of difference	
1	2	3	4	5	
Kishna Delta Government villages					
Old Irrigation {					
Seri	203	244	+ 41	+ 20	
Inam	8	6	- 2	- 25	
New Irrigation {					
Seri	886	905	+ 19	+ 2	
Inam	321	297	- 24	- 7	
Dry Cultivation {					
Seri	5470	5548	+ 78	+ 1	
Inam	1578	1800	+ 222	+ 14	
Culturable waste	2273	3207	+ 934	+ 41	
Poramboke	10,802	16,411	+ 5,609	+ 52	
Total	21,541	28,418	+ 6,877	+ 32	
Kishna Delta Government villages					
Old Irrigation {					
Seri	7,964	8,163	+ 199	+ 2	
Inam	902	862	- 40	- 4	
New Irrigation {					
Seri	26,008	26,817	+ 811	+ 3	
Inam	1,236	1,315	+ 79	+ 2	
Dry Cultivation {					
Seri	51,918	52,536	+ 618	+ 1	
Inam	16,211	16,232	+ 21		
Culturable waste	9,597	9,369	- 228	- 3	
Poramboke	18,616	17,870	- 746	- 4	
Total	135,452	136,166	+ 714	+ 1	

Particulars	Area in acres			
	Revenue accounts	Survey	Increase or decrease by Survey difference	Percentage of difference
1	2	3	4	5
82. In Government villages in the districts of Candimata, Bapatla, Daballe, Sengimida, Sankar and Buntur				
Old Irrigation {				
Seri	10284	11366	+ 1082	+ 11
Quam	11435	1598	+ 163	+ 11
New Irrigation {				
Seri	13417	11445	+ 996	+ 7
Quam	11416	1569	+ 123	+ 9
Dry Cultivation {				
Seri	17535	18839	+ 1304	+ 7
Quam	1256	1318	+ 62	+ 5
Culturable waste	2211	2144	- 67	- 3
Poramboke	6338	7221	+ 883	+ 14
Total	53754	58500	+ 4546	+ 8

Particulars	Area in acres			
	Revenue accounts	Survey	Increase or decrease by Survey	Percentage of difference
1	2	3	4	5
Old Irrigation {				
Seri	36232	38414	+ 2182	+ 6
Quam	5533	5666	+ 133	+ 2
New Irrigation {				
Seri	60866	63739	+ 2873	+ 5
Quam	8893	9037	+ 144	+ 2
Dry Cultivation {				
Seri	167221	172635	+ 5414	+ 3
Quam	25358	26049	+ 691	+ 3
Culturable waste	32133	32758	+ 625	+ 3
Poramboke	74663	80779	+ 6116	+ 8
Total acres	410899	429077	+ 18178	+ 4
Total Square Miles	642	670	28	+ 4

Camp. S. Canara Dist.
1st March 1893

W. J. J. J.
Superintendent, Revenue Survey.

Appendix No 1

Enclosure to Circular No. 1234 dated 1 March 1893
from the Superintendent, Madras Survey to the Secretary
to Government Revenue Department.

Kistna delta Zemindaries

Statement of Comparison of

Survey areas with Revenue areas.

1893
REVENUE DEPARTMENT.
Enclosure No. /
To Current No. /

Appendix No 4

Enclosure to Circular No. 1234 dated 1 March 1893
from the Superintendent, Madras Survey to the
Secretary to Government Revenue Department.

Kistna delta Zemindaries

Statement of Cost of Survey.

1893
REVENUE DEPARTMENT.
Enclosure No. /
To Current No. /

Enclosure No. /
To Current No. /

Cost of Survey

Party.	District.	Taluk.	Area mapped on 16 inch scale.	WORK CHARGES. RATE PER SQ. MILE.								Total.
				A.	B.	C.	D.	E.	F.	G.	H.	
				Marking stations.	Traverse survey.	Traverse computation.	Traverse plotting.	Field demarcation.	Field measurement.	Plane tabling.	Finishing.	
1	2	3	4	5	6	7	8	9	10	11	12	13
			SQ. M.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
		Standard ...	...	3	21	6	4	12	16	34	4	100
I	Kistna	Kistna delta hemindaries	531	2	3	1	1	13	17	21	8	66
		Teleprole Estate	45	3	9	4	3	9	13	14	7	62
		82 Non Govt villages in Gudivada, Repalle, Bapatla, Gunthur, Bandar and Bezawada	92					14	15	22	22	73
		Total	668									
		Camp. S. Panasa District 1st March 93										

Work to Government.

SUNDY CHARGES. RATE PER SQ. MILE.							Total rate per square mile.	Total expenditure on which the rate was calculated.
1	2	3	4	5	6	Total.		
Officer's supervision.	Petty supervision.	Miscellaneous salaries.	Peons.	Contingencies	Boundary pillars.	Total.		
14	15	16	17	18	19	20	21	22
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
45	35	15	25	20	10	150	250	
42	18	16	15	17	43	151	217	115,293
48	25	18	16	15	35	157	219	9,880
57	23	16	21	15	19	151	224	20,635
								145,808
							Average rate per Sq. Mile.	2/8
								Superintendent Revenue Survey,

Enclosure No. ...
T. Current No. ...

Appendix No. 2

*Enclosure to Comptroller's letter No. 34 dated 1 March 1893, from the
District Collector, Madras, to the Secretary to Government,
Revenue Department.*

No. 13
Maddipatla
Tsallapalli Zemindari
Bandar Taluk
Kistna District

1893
REVENUE DEPARTMENT.
Enclosure No.
To Comptroller's Office

KISTNA DISTRICT
BANDAR TALUK
TSALLAPALLI ZEMINDARI
NO. 13 MADDIPATLA
మద్దిపట్ల

Scale 8 Inches = 1 Mile. $\frac{1}{7820}$
Links 100 0 5 10 15 Chains

1
Acres

Acres Dec.

Area by Traverse 630.77

Area by Computing Scale 631.18

Difference 0.41

This map is specially prepared in accordance with G. O. No. 10, dated 4th January 1884, to show blocks of Zemindari land under wet cultivation (locally known as mamul wet) before the construction of Government Irrigation Works and consequently not liable to water rate.

NO. 12
NIDUMOL

NO. 34
TARKATURU

NO. 33
KANTSAKODURU

NO. 14
KAJA

REFERENCE

-  Mamul Wet
-  New Wet
-  Unirrigated
-  Waste
-  Village Site
-  Cart Track & Foot path
-  River & Stream with Anicut
-  Tank
-  Wells
-  Burial Ground
-  Supply Channel

1890
Revenue Survey

- REFERENCE
- Mammal Wet
 - New Wet
 - Unirrigated
 - Waste
 - Village Site
 - Cart Track & Foot path
 - River & Stream with Anicut
 - Tank
 - Wells
 - Burial Ground
 - Supply Channel

KANTSAKODU
NO. 33
ODDUR ESTATE

TARKATURU
NO. 34
ODDUR ESTATE

NIDUMOL
NO. 12

KAJA
NO. 14

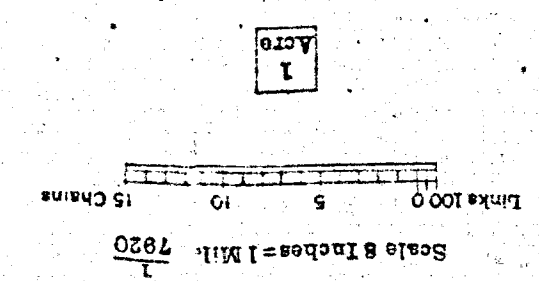
This map is specially prepared in accordance with
G. O. No. 10, dated 4th January 1891, to show blocks
of Zaminid land under wet cultivation (locally known
as mammal wet) before the construction of Government
Irrigation Works and consequently not liable to water
rate.

Difference 0.41

Area by Computing Scale 631.18

Area by Traverse 630.77

Acres Dec.



No. 13
Maddipatla
Tsallapalli Zemindari
Bandar Taluk
Kistna District

Handwritten text in Telugu script, likely a title or description of the land register.

KISTNA DISTRICT
BANDAR TALUK
TSALLAPALLI ZEMINDARI
Village No. 13 Maddipatla
Field Register

No.
సెం.

Survey and Settlement Register of the Village of Maddipatla

సర్వే సెట్టిల్ మెంటు రిజిస్టరు

FIELD NUMBERS. పొలము నెంబర్లు.		Old number or Name of field. పొలము పాత నెంబరు లేక పేరు.	Whether Government or inam; if inam, whether service or otherwise. సర్కారు లేక ఇనాము ఒనా ము అయితే సచుకరి లేక ఇతరము.	Dry, wet garden or poramboke. ఖుష్కీ, తరి, బాగాయతులేక పొరంబొకు.	Cultivated, culturable (and how long waste), unculturable. సాగుబడి, సాగులాయము, (యెంతకాల మునుంచి బంజరు) నాశాయము.	No. of patta or inam title- deed and date of issue of latter. పట్టా, లేక ఇనాము పైట లేదీడ్డు నెం బరు పైటలేదీ డ్డు తారీఖు	Name of pattadar, occupant or inamdar. పట్టాదారు లేక ఇనాం దారు పేరు.	Extent by revenue accounts. రివిన్యూ లెఖ్క- దాఖలా విస్తీర్ణము.		Extent by survey. సర్వేప్రకారము విస్తీర్ణము.		Source of irriga- tion. నీటి ఆధారము.
Survey Nos. సర్వే నెంబర్లు.	Sub-divisions. అంతర్భాగములు.											
	Directions. దిశలు.	No. నెంబరు.										
1	2	3	4	5	6	7	8	9	10	11		
	Entries in col. 2 should be in red ink.							Acs. ఎకరాలు.	Cts. సెంట్లు	Acs. ఎకరాలు.	Cts. సెంట్లు	

M.S.O. 1-77,006-8-6-37.

శ్రీకృష్ణరాయల ఆజ్ఞాపాత్ర
 శ్రీకృష్ణరాయల ఆజ్ఞాపాత్ర
 శ్రీకృష్ణరాయల ఆజ్ఞాపాత్ర

1		పొరవూరు గాలాడు				1	0	0	38
2		తిరు				1	-	0	30
3	1	293	పర్వతము పల్లం సోగు	70	కర్తవ్యము	1	94	2	77
	2	292	తిరు	తిరు	తిరు	71	కర్తవ్యము	1	91
		291	తిరు	తిరు	తిరు	తిరు	తిరు	0	76
								4	61 5 16
4	1	293	తిరు	తిరు	తిరు	71	కర్తవ్యము	1	94
	2	291	తిరు	తిరు	తిరు	70	కర్తవ్యము	0	76
		292	తిరు	తిరు	తిరు	తిరు	తిరు	1	92
								4	62 3 76
5		289	పర్వతము పల్లం సోగు	69	కర్తవ్యము	10	14	10	20
6	1	289	తిరు	తిరు	తిరు	69	కర్తవ్యము	2	35
	2	304	తిరు	తిరు	తిరు	60	కర్తవ్యము	1	1
		296	తిరు	తిరు	తిరు	6	కర్తవ్యము	1	13
		301	తిరు	తిరు	తిరు	తిరు	తిరు	1	91
		297	తిరు	తిరు	తిరు	7	కర్తవ్యము	0	84

298 సర్కారు పెంక పాను 60 నుటపాలవీధి 0 74 0 69
(య)డ

299 డియ డియ డియ 6 నంటాబావల్య 2 5 2 09

300 డియ డియ డియ 28 జ్యోలగర్హి 0 50 0 54
హాలయ
10 53 9 92

7 300 సర్కారు పెంక పాను 28 జ్యోలగర్హి 0 50 0 54
హాలయ

300 డియ డియ డియ 27 ఈకీరాస్పామి 1 - 1 11 8

303 డియ డియ డియ 6 నంటాబావల్య 1 33 2 05

305 డియ డియ డియ 16 వ్యవసాయము 30 - 33 డియ
హాలయ

305 డియ డియ డియ 29 వ్యవసాయము 0 30 0 29 డియ

302 డియ డియ డియ 7 ఇకాంతము 1 92 2 03 డియ
హాలయ

306 డియ డియ డియ 16 వ్యవసాయము 0 27 0 26 డియ
హాలయ

306 డియ డియ డియ 29 వ్యవసాయము 0 30 0 36 డియ
5 92 6 98

8 308 డియ డియ డియ 38 తిరుమలము 4 54 4 81 డియ
హాలయ

307 డియ డియ డియ 27 జ్యోలగర్హి 0 29 0 20 డియ
హాలయ

307 డియ డియ డియ 28 లయానము 0 30 0 16 డియ

జంతులు

జంతులు

8. 307 సర్వము ^{మొత్తము} 27 మొత్తములైనా 0 30 0 29 మొత్తము

307 తెలు తెలు తెలు 28 లుంపించును 0 30 0 32 తెలు

5 73 5 78

9 309 తెలు తెలు తెలు 44 మొత్తములైనా 1 49 1 40 తెలు

317 తెలు తెలు తెలు 6 నుంపించును 1 33 1 21 తెలు

316 తెలు తెలు తెలు 18 మొత్తములైనా 0 50 6

318 తెలు తెలు తెలు తెలు తెలు 1 00, > 1 79 తెలు

4 32 4 40

10 315 తెలు తెలు తెలు 19 మొత్తములైనా 1 0 0 79 తెలు

310 తెలు తెలు తెలు 17 మొత్తములైనా 1 50

> 3 16 తెలు

314 తెలు తెలు తెలు తెలు తెలు 1 50,

311 తెలు తెలు తెలు 56 మొత్తములైనా 2 4 1 57 తెలు

6 4 5 52

11 289 మొత్తములైనా మొత్తములైనా 0 83

314 తెలు 0 21

315 తెలు 0 21

316 తెలు 0 20

318 తెలు 0 29

1 74 2 82

ప్రతిమొత్తములైనా మొత్తములైనా 0 83

మొత్తములైనా

తెలు
తెలు
తెలు
తెలు
తెలు

12 289 పొద్దు పొద్దు పొద్దు 69 ముక్కలముక్క 5 78 తొలగి
మొదలు

287. డెం డెం డెం డెం డెం 0 89 డెం
6 67 7 28

13 288 డెం డెం డెం 68 ముక్కలముక్క 0 50 1 06 డెం

14 288 పొద్దు పొద్దు పొద్దు 68 ముక్కలముక్క 3 20 2 55 డెం

287 డెం డెం డెం 69 ముక్కలముక్క 3 18 2 38
మొదలు
6 38 4 93

15 286 పొద్దుపొద్దు పొద్దు 0 40 0 59

16 286 డెం- డెం 0 48 0 48

17 285 పొద్దు పొద్దు పొద్దు 68 ముక్కలముక్క 10 65 11 03

283 డెం డెం డెం 3 ముక్కలముక్క 1 30 1 29
మొదలు
11 95 12 32

18 313 పొద్దు పొద్దు పొద్దు 68 ముక్కలముక్క 1 71 } 4 70 తొలగి
మొదలు

285 డెం డెం డెం 68 ముక్కలముక్క 3 00

312 డెం డెం డెం 55 ముక్కలముక్క 2 10 2 04 డెం
మొదలు
6 81 6 74

తొలగింపు మరియు మొదలు
మొదలు

తొలగింపు

	189	పర్వారు ప్రభుత్వము సాగు	37	ప్రభుత్వదేవులము	0	33	0	31	రూప
	185	రూ రూ రూ	46	బ్రహ్మచర్యము	1	99	2	14	రూ
	186	రూ రూ రూ	47	ప్రభుత్వము	0	45	0	31	రూ
	187	రూ రూ రూ	37	ప్రభుత్వదేవులము	0	16	0	10	రూ
					5	71	5	50	
23	184	రూ రూ రూ	16	తమిళనాడు	2	33	2	16	రూ
				హిందూమతము					
	183	రూ రూ రూ	34	హిందూమతము	2	32	2	36	రూ
					4	65	4	52	
24	193	రూ రూ రూ	15	హిందూమతము	6	29	6	43	రూ
				హిందూమతము					
25	192	రూ రూ రూ	46	బ్రహ్మచర్యము	1	42	1	30	రూ
				హిందూమతము					
26	284	రూ రూ రూ	57	హిందూమతము	0	95	0	98	రూ
	283	రూ రూ రూ	2	హిందూమతము	2	06	2	00	రూ
	283	రూ రూ రూ	4	హిందూమతము	2	12	2	06	రూ
	283	రూ రూ రూ	3	హిందూమతము	0	70	0	71	రూ
					5	83	5	75	

ప్రభుత్వము

హిందూమతము

హిందూమతము

275 పాఠ్యము ప్రారంభ సాగము 5వ పాఠ్యము 2 18 2 12

277 See See See 56 Bonfidelity 1 81 232

278 800 800 800 55 3000 1 99 2 00

279. See See See 56 (304) 2 20 2 14.

[illegible]

282 Ser Ser Ser Ser Ser 0 34

[illegible]

11 95 1208

276 2000-08-28 24 0 82

280 Bei Be - bei o 62

1 44 1 50

237 ലോഡ്

అనుభవదారులకావ్యమునకు.
ప్రతి ముద్ర-ముద్రమునకు.

23. $\frac{1}{2} \pi$ α

ఆంధ్ర ప్రదేశ్ రాష్ట్రం
 ఆంధ్ర ప్రదేశ్ రాష్ట్రం
 ఆంధ్ర ప్రదేశ్ రాష్ట్రం

Борисов

237 Lima Lima

మొదలు 8 నది వరకు
కొత్త రైతుల కొరత

Day

31 240 పంపిణీ పంపిణీ - 0 46
 242 డి డి డి 1 76
2 22 1 80

32 241 పంపిణీ పంపిణీ 54 పంపిణీ పంపిణీ 5 45 5 87
 243 డి డి డి 55 పంపిణీ పంపిణీ 3 14 3 37
8 59 9 24

33 244 డి డి డి 56 పంపిణీ పంపిణీ 3 34 3 45
 245 డి డి డి 55 పంపిణీ పంపిణీ 2 60 2 72
5 94 5 117

239 డి డి డి 56 పంపిణీ పంపిణీ 4 08
 246 డి డి డి డి డి 1 04
5 51

238 డి డి డి 55 పంపిణీ పంపిణీ 1 16 2 24
3 40

247 డి డి డి డి డి 0 88
13 10 13 92

పంపిణీ పంపిణీ పంపిణీ
 పంపిణీ పంపిణీ

పంపిణీ

పంపిణీ పంపిణీ పంపిణీ
 పంపిణీ పంపిణీ పంపిణీ

పంపిణీ పంపిణీ పంపిణీ
 పంపిణీ పంపిణీ పంపిణీ

పంపిణీ

34 205 పంజాబ్ ప్రాంత నామ 75 త్రికోణమితి 0 55 291

234: తెలు తెలు తెలు తెలు తెలు 0 27

235 | తెలు తెలు తెలు తెలు తెలు 0 36

233 తెలు తెలు తెలు తెలు తెలు 0 197

237: తెలు తెలు తెలు తెలు తెలు 1 33

206 తెలు తెలు తెలు 73 త్రికోణమితి 0 26 0 35

228 తెలు తెలు తెలు 54 త్రికోణమితి 1 97 1 94

230: తెలు తెలు తెలు 72 త్రికోణమితి 0 20

232: తెలు తెలు తెలు తెలు తెలు 0 57 } 0 84

233 తెలు తెలు తెలు తెలు తెలు 0 07

229: తెలు తెలు తెలు 73 త్రికోణమితి 0 20 0 20

231 తెలు తెలు తెలు 74 లంకామర్మ 0 75 0 73

241 తెలు తెలు తెలు 4 ప్రభుత్వరామర్మ 1 13 1 13

213 తెలు తెలు తెలు 4 ప్రభుత్వరామర్మ 0 78 0 76

226 తెలు తెలు తెలు 53 ద్రావిడరామర్మ }
మొదటిది }
తొలిపేర్లు }
0 64 1 23

తెలుగు

227 స్థూరు ప్రారంభ చాను 53 దివరలెంబరామ
సాక్షు-
ఈ పుష్ప

225 టెలు టెలు టెలు 2 ప్రస్తుతికట్టరా 0 47 0 45
పప్రప్రయ

214 టెలు టెలు టెలు 2 టెలు 0 77 0 76

215 టెలు టెలు టెలు 3 టెలు 0 74 0 70
11 84 12 00

35 224 టెలు టెలు టెలు 52 ప్రస్తుతికట్టరా 2 05 1 28

2 218 టెలు టెలు టెలు 50 ప్రస్తుతికట్టరా 5 25 5 19
ప్రస్తుతికట్టరా

219 టెలు టెలు టెలు 57 టెలు 2 87 2 97
10 17 9 44

36 223 పుష్ప గానము 1 00 2 53
పాడు

37 222 స్థూరు ప్రారంభ చాను 50 ప్రస్తుతికట్టరా 1 48 1 37
ప్రస్తుతికట్టరా

220 టెలు టెలు టెలు 52 ప్రస్తుతికట్టరా 1 08 0 99
2 56 2 36

38 223 పుష్ప గానము 0 56 2 66
పాడు

39 224 టెలు టెలు 0 71 1 92

ప్రస్తుతికట్టరా
పాడు

ప్రస్తుతికట్టరా
పాడు

ప్రస్తుతికట్టరా
పాడు

40 217 పండు ప్రారంభ సగాన 3 ప్రభుత్వము 1 35 1 36

216 టె టె టె 2 లూరూపం 1 23 1 30

216 టె టె టె 4 లూరూపం 1 31 1 38

158 టె టె టె 42 వాస్తవము 3 01 3 25

158 టె టె టె 41 వాస్తవము 3 02 3 33

9 92 10 62

41 157 పండు ప్రారంభ సగాన
42 పండు ప్రారంభ సగాన

2 ప్రభుత్వము 1 32 1 25

0 50 0 24

43 156 పండు ప్రారంభ సగాన

3 ప్రభుత్వము 1 33 1 42

155 టె టె టె

4 వాస్తవము 1 23 1 14

154 టె టె టె

14 వాస్తవము 2 08 2 12

4 64 4 68

44 159 పండు ప్రారంభ సగాన

3 ప్రభుత్వము 2 71 2 78

45 212 టె టె టె

79 ప్రభుత్వము 2 69 2 80

211 టె టె టె

78 వాస్తవము 1 50 1 55

210 టె టె టె

44 వాస్తవము 1 48 1 43

236 టె టె టె

73 లూరూపం 0 38 0 24

6 05 6 02

వంతుల రామలక్ష్మణం
అధ్యక్షుడు

46	163	హారు ప్రాంతము నాగు	43	అక్కిలివనం	1	18	2	12	రాయ
	209	దేు దేు దేు దేు దేు	1	27					
	162	దేు దేు దేు	75	అక్కిలివనం	0	32	0	36	దేు
	162	దేు దేు దేు	72	అంతువనం	0	22	0	21	దేు
	162	దేు దేు దేు	73	అంతువనం	0	18	0	20	దేు
	161	దేు దేు దేు	17	అంతువనం	0	58	0	58	దేు
	160	దేు దేు దేు	40	అంతువనం	0	63	0	54	దేు
	164	దేు దేు దేు	43	అక్కిలివనం	1	14	1	09	దేు
	164	దేు దేు దేు	77	అంతువనం	1	59	1	30	దేు
						7	81	6	40

47	153	దేు దేు దేు	17	అంతువనం	0	33	0	33	దేు
	152	దేు దేు దేు	18	అంతువనం	0	83	0	88	దేు
	151	దేు దేు దేు	19	అంతువనం	2	46	2	68	దేు
	146	దేు దేు దేు	17	అంతువనం	1	60			
	150	దేు దేు దేు			1	04			
						6	26	6	60

అక్షరములు

48	145	పుంజుల దత్తయ్య			0 52 0 67	
49	139	సోమయ్య పంతులు	3	ప్రజ్ఞాపతి	4 85 5 13	కొత్త
	134	అల అల అల అల అల			0 14	
	135	అల అల అల	22	మధ్యపట్టణం	0 09 0 13	అల
	136	అల అల అల	21	నంద్యాలపట్టణం	0 06 0 05	అల
	137	అల అల అల	32	అంతర్జాతీయ	0 05 0 06	అల
	138	అల అల అల	33	అంతర్జాతీయ	0 09 0 05	అల
					5 28 5 42	

50	140	అంతర్జాతీయ	అల	75	ప్రజ్ఞాపతి	0 20	కొత్త
	140	అల అల అల		74	అంతర్జాతీయ	1 00	అల
	140	అల అల అల		72	అంతర్జాతీయ	0 30	అల
	140	అల అల అల		75	అంతర్జాతీయ	0 18	అల
	140	అల అల అల		74	అంతర్జాతీయ	0 20	అల
	140	అల అల అల		73	అంతర్జాతీయ	0 17	అల
	140	అల అల అల		75	అంతర్జాతీయ	0 43	అల
						2 48 2 21	

అంతర్జాతీయ

అల
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అల
అల

170

23 июня

37 lmo àu

పశుపత్యంబు

177 పాదాలు క్రింద పాదాలు

1 క్రాంతి క్రింద
క్రింద క్రింద
పాదాలు
2 క్రాంతి క్రింద
3 క్రింద క్రింద
పాదాలు

2 84 3 04

క్రింద

177	తెలు	తెలు	తెలు	77	క్రింద క్రింద	0 70	0 70	తెలు
176	తెలు	తెలు	తెలు	44	క్రింద క్రింద	1 61	1 38	తెలు
175	తెలు	తెలు	తెలు	43	క్రింద క్రింద	0 31	0 19	తెలు
173	తెలు	తెలు	తెలు	74	క్రింద క్రింద	0 05	0 04	తెలు
173	తెలు	తెలు	తెలు	75	క్రింద క్రింద	0 02	0 03	తెలు
173	తెలు	తెలు	తెలు	73	క్రింద క్రింద	0 02	0 03	తెలు
173	తెలు	తెలు	తెలు	72	క్రింద క్రింద			
174	తెలు	తెలు	తెలు	40	క్రింద క్రింద	0 06	0 06	తెలు
172	తెలు	తెలు	తెలు	43	క్రింద క్రింద	0 10	0 11	తెలు
						5 71	5 58	

క్రింద క్రింద

204	తెలు	తెలు	తెలు	19	క్రింద క్రింద	1 49	1 45	తెలు
203	తెలు	తెలు	తెలు	17	క్రింద క్రింద	1 58	1 75	తెలు
202	తెలు	తెలు	తెలు	19	క్రింద క్రింద	0 86	1 09	తెలు

208	పల్లెట ప్రవేశము పాదు	75	ప్రవేశము	1	57	} 1 83 నాల్గవ వంతు
207	దేల దేల దేల దేల దేల	0	31			
				5	81	6 12

55

198	దేల దేల దేల	3	ప్రవేశము	1	40	1	42	దే
199	దేల దేల దేల	79	ప్రవేశము	1	11	1	04	దే
200	దేల దేల దేల	4	లంకాము	1	22	1	11	దే
201	దేల దేల దేల	14	వెళ్ళుకొను	2	12	2	07	దే
				5	85	5	64	

56

258	దేల దేల దేల	16	ప్రవేశము	}	2	34	2	26	దే
259	దేల దేల దేల	59	విజ్ఞానము	0	71	0	70	దే	
260	దేల దేల దేల	20	వారము	2	30	2	26	దే	
				5	35	5	22		

57

252	దేల దేల దేల	20	వారము	2	89	1	85	దే
256	దేల దేల దేల	61	నాల్గవ వంతు	1	64	1	73	దే
257	దేల దేల దేల	60	నాల్గవ వంతు	1	67	1	66	దే
				6	20	5	24	

930 లుండు

61	197	సర్కారు ప్రభుత్వము సేవ	49	బృందావనం	0	71	0	70	తూర్పు గూడ
	196	తెలుగు	48	తెలంగాణం	0	73	0	72	తెలుగు
	195	తెలుగు	34	నల్లూరిపేట	2	32	2	29	తెలుగు
	194	తెలుగు	35	నల్లూరిపేట	2	20	2	19	తెలుగు
62	181	తెలుగు				5	96	5	90
						4	67	4	91
63	127	సర్కారు	38	తెలంగాణం	2	16			తూర్పు గూడ
	178	తెలుగు				1	20		తెలుగు
	180	తెలుగు				2	61		తెలుగు
						5	97	6	26
64	131	తెలుగు	1	తెలంగాణం					
						3	67		తెలుగు
	132	తెలుగు				3	00		
						6	67	4	72
65	126	తెలుగు	40	తెలంగాణం	1	81	1	68	తెలుగు

తూర్పు గూడ
తెలంగాణం
తెలంగాణం
తెలంగాణం
తెలంగాణం

తూర్పు గూడ

66

126	ಪ್ರಾಚಾರ್ಯ	28	ಪ್ರಾಚಾರ್ಯ	0 46 0 81	ಪ್ರಾಚಾರ್ಯ
126	ಪ್ರಾಚಾರ್ಯ	27	ಪ್ರಾಚಾರ್ಯ	0 47 0 81	ಪ್ರಾಚಾರ್ಯ
128	ಪ್ರಾಚಾರ್ಯ	1	ಪ್ರಾಚಾರ್ಯ	1 13 1 11	ಪ್ರಾಚಾರ್ಯ

127	ಪ್ರಾಚಾರ್ಯ	39	ಪ್ರಾಚಾರ್ಯ	1 11 1 15	ಪ್ರಾಚಾರ್ಯ
124	ಪ್ರಾಚಾರ್ಯ	19	ಪ್ರಾಚಾರ್ಯ	0 48 0 38	ಪ್ರಾಚಾರ್ಯ
125	ಪ್ರಾಚಾರ್ಯ	17	ಪ್ರಾಚಾರ್ಯ	0 43 0 41	ಪ್ರಾಚಾರ್ಯ
126	ಪ್ರಾಚಾರ್ಯ	29	ಪ್ರಾಚಾರ್ಯ	0 16 0 12	ಪ್ರಾಚಾರ್ಯ
123	ಪ್ರಾಚಾರ್ಯ	11	ಪ್ರಾಚಾರ್ಯ	1 45 1 29	ಪ್ರಾಚಾರ್ಯ
				5 69 6 08	

67	182	ಪ್ರಾಚಾರ್ಯ	45	ಪ್ರಾಚಾರ್ಯ	4 16 4 07	ಪ್ರಾಚಾರ್ಯ
68	122	ಪ್ರಾಚಾರ್ಯ			0 52 0 80	ಪ್ರಾಚಾರ್ಯ
69	324	ಪ್ರಾಚಾರ್ಯ			0 08 0 69	ಪ್ರಾಚಾರ್ಯ
70	367	ಪ್ರಾಚಾರ್ಯ			0 63	ಪ್ರಾಚಾರ್ಯ
	368	ಪ್ರಾಚಾರ್ಯ			1 67	ಪ್ರಾಚಾರ್ಯ
	372	ಪ್ರಾಚಾರ್ಯ			1 11	ಪ್ರಾಚಾರ್ಯ
				3 41 2 16		

ಪ್ರಾಚಾರ್ಯ

ಪ್ರಾಚಾರ್ಯ

ಪ್ರಾಚಾರ್ಯ

71	377	పెద్దది	దండనా	సెనా	21	బాగ్యరామచంద్ర	1	11	1	32	రాం
						మిగిలినది					రాం
	376	దే	దే	దే	20	రాంబలరాం	1	19	1	26	దే
						మిగిలినది					
	375	దే	దే	దే	3	ప్రభుకృష్ణ	1	06	1	51	దే
						మిగిలినది					
	373	దే	దే	దే	6	గంగారాం	1	1	1	26	దే
	371	దే	దే	దే	77	ప్రభుకృష్ణ	1	20	1	63	దే
						మిగిలినది					
							5	57	6	98	

72	369	దే	దే	దే	60	గంగారాం	0	28	0	20	దే
						మిగిలినది					
	370	దే	దే	దే	37	ప్రభుకృష్ణ	0	78	0	68	దే
						మిగిలినది					
	365	దే	దే	దే	36	రాంబలరాం	2	78	2	91	దే
						మిగిలినది					
	325	దే	దే	దే	58	ప్రభుకృష్ణ	0	67	0	66	దే
						మిగిలినది					
	366	దే	దే	దే	47	ప్రభుకృష్ణ	0	88	0	73	దే
						మిగిలినది					
							5	39	5	18	

73	374	దే	దే	దే	36	రాంబలరాం	0	41	0	39	దే
						మిగిలినది					
	364	దే	దే	దే	34	గంగారాం	3	15	3	08	దే
	363	దే	దే	దే	6	గంగారాం	1	60	1	77	దే
							5	16	5	24	

ప్రభుకృష్ణరాంబలరాం
ప్రభుకృష్ణరాంబలరాం

74 354 పల్లెటూరు ప్రభుత్వం పాఠశాల 75 విశ్వవిద్యాలయం 0 53 5 66 ముఖ్య
అధికారి

357. రూ రూ రూ రూ 0 47 రూ

360 రూ రూ రూ రూ రూ 2 97 రూ

362 రూ రూ రూ రూ రూ 1 66 రూ

356 రూ రూ రూ 73 విశ్వవిద్యాలయం 0 33 0 30 రూ

355 రూ రూ రూ 72 అంశములు 0 33 0 22 రూ
6 29 6 18

75 361 రూ రూ రూ 74 విశ్వవిద్యాలయం 1 15 1 24 రూ

357 రూ రూ రూ 48 ప్రభుత్వం 0 64 0 76 రూ

352 రూ రూ రూ 73 విశ్వవిద్యాలయం 0 18 0 19 రూ

353 రూ రూ రూ 72 అంశములు 0 18 0 19 రూ

350 రూ రూ రూ 46 గ్రంథాలసంఖ్య 3 08 3 29 రూ
విశ్వవిద్యాలయం
5 23 5 67

18

విశ్వవిద్యాలయం 0 53 5 66 ముఖ్య
అధికారి

విశ్వవిద్యాలయం 0 33 0 30 రూ

అంశములు 0 33 0 22 రూ
6 29 6 18

విశ్వవిద్యాలయం 1 15 1 24 రూ

ప్రభుత్వం 0 64 0 76 రూ

విశ్వవిద్యాలయం 0 18 0 19 రూ

అంశములు 0 18 0 19 రూ

గ్రంథాలసంఖ్య 3 08 3 29 రూ
విశ్వవిద్యాలయం
5 23 5 67

76 339 పాపాదురైయ్య పాపాదురైయ్య 49 బుధావతారం 3 63 3 70 ౦౦౦౦

338 డి డి డి 57 పుష్కరామ్య 0 97 2 08 డి

340 డి డి డి డి డి 1 00

5 60 5 78

77 331 డి డి డి 29 తమిళనాడు 0 99 1 30 డి

332 డి డి డి 28 బావలగర్బ 0 40 0 40 డి

332 డి డి డి 27 తిరుకావాయ్ 0 40 0 39 డి

335 డి డి డి 29 తమిళనాడు 0 47 0 46 డి

336 డి డి డి 28 బావలగర్బ 0 43

337 డి డి డి డి డి 0 26

334 డి డి డి 26 తాతాతాత 0 35 0 39 డి

333 డి డి డి 7 కిరాంబయ్య 0 40 0 37 డి

330 డి డి డి 6 గోపానాథ 0 44 0 69 డి

4 14 4 62

78	326	సంవత్సరము ౧౪	2 11 1 07
79	294	రేల రేల	0 64
	295	రేల రేల	0 96
	327	రేల రేల	1 07
			2 67 1 55
80	328	రేల రేల	1 49
	329	రేల రేల	0 16
	345	రేల రేల	0 99
	346	రేల రేల	1 02
	347	రేల రేల	2 39
	393	రేల రేల	1 86
	394	రేల రేల	0 92
	395	రేల రేల	1 78
	396	రేల రేల	1 11

వజ్రమును ప్రకృతమును

నిర్వహించు సరిహద్దు

రేల

కామమును సరిహద్దును సరిహద్దును

12

ప్రభుత్వమునందు

రేల

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రేల

411	వెంకటేశ్వరస్వామి	1	96
410	దేవ దేవ	1	56
409	దేవ దేవ	3	26
		<u>18 50 5 57</u>	

344	వర్షాదు విరక్త సాగు	26	వారాహా	0	79	0	68	వర్షాదు
341	దేవ దేవ దేవ	83	అర్జునాచార్య	1	29	1	32	దేవ
342	దేవ దేవ దేవ	46	బృహద్రథ	0	88	0	68	దేవ
340	దేవ దేవ దేవ	1	అర్జునాచార్య	1	57	1	08	దేవ
346	దేవ దేవ దేవ	78	నృసింహస్వామి	0	57	0	68	దేవ
				<u>5 04 4 39</u>				

శ్రీ భక్తి ప్రసాదం

దేవ దేవ

దేవ దేవ

వర్షాదు విరక్త సాగు
వర్షాదు విరక్త సాగు
వర్షాదు విరక్త సాగు

78

326

సామంతాదులు
అప

2 11 1 07

79

294

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0 64

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0 96

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 2 67 1 55

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1 49

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0 16

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0 99

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అప అప

1 02

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అప అప

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393

అప అప

1 86

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అప అప

0 92

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అప అప

1 78

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అప అప

1 11

పాత్రులను ప్రకటించుట

నిర్దేశించుట

అప

కామరూపములను
పొందుట

12

ప్రభుత్వములను

అప

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అప

82 వర్షమునకు 348 వర్షము ప్రభుత్వము సాగు 44 త్రిశ్రవణము 1 40 1 49 వర్షము

343. డి. డి. డి. 48 ద్వారములకు 3 42 3 59 డి.

349 డి. డి. డి. 75 త్రిశ్రవణము 0 38 0 40 డి.

358 డి. డి. డి. 72 ఈ సమయము 0 41 0 44 డి.

357 డి. డి. డి. 73 ఈ సమయము 0 39 0 40 డి.
6 00 6 32

83 379 డి. డి. డి. 18 బ్రహ్మములకు 2 94 డి.

380 డి. డి. డి. డి. డి. 1 73 డి.
4 67 5 80

84 383 డి. డి. డి. 13 మధ్యములకు 4 34 4 48 డి.

378 డి. డి. డి. 30 వారములకు 1 00 1 36 డి.
5 34 5 84

85 381 డి. డి. డి. 19 బ్రహ్మములకు 1 66 3 63 డి.

382 డి. డి. డి. డి. డి. 1 82

387. డి. డి. డి. 13 సుదీపం 0 88 0 94 టి.
మహాద్రాష్ట్ర 5 93 6 30

385 పాఠశాల ప్రయత్నములు 40 పాఠశాల / 52 / 55 84
ప్రయత్నము

388 Sei Sei Sei 17 17 / 35 / 44 84

389 36 36 36 19 35 45 84
4 22 4 44

390 Dec Dec Dec 23 పర్యావరణం / 03 / 24 Dec
వ్యవసాయం

404 Bei der bei 17 Wohnstellen 0 30 0 34 bei
Jew

403 ~~See~~ ~~See~~ ~~See~~ 18 ~~Methoden~~ 0 38 0 36 ~~See~~
Walshen

402. Be Be Be 13 మధ్యపంపాడు / 34 / 81 Gu
యవ్రహ్మ

405 ದೀ ದೀ ದೀ 81 ಪುಸ್ತಕಂಖ್ಯ ೦ 44 ೦ 53 80

406 దిం దిం దిం / గ్రామీణులు
 అక్షరజ్ఞులు
 పరిగ్రహించిన
గ్రామీణులను 1 11 1 04 6
ప్రాధికారమును
పరిగ్రహించిన 4 68 5 82

భాగ్యలక్ష్మి
భాగ్యలక్ష్మి
భాగ్యలక్ష్మి

88

391	పర్వత ప్రాంతం పాగు	40	బుర్రాపము	1	49	1	93	కాపు
			ప్రయత్న					
392	తెలు తెలు తెలు	84	క్రిష్ణానది	1	30	1	52	తెలు
401	తెలు తెలు తెలు	34	గోదావరినది	1	09	1	49	తెలు
400	తెలు తెలు తెలు	38	పిరుమలెత్తి	1	20	1	71	తెలు
			క్రిష్ణానది					
399	తెలు తెలు తెలు	3	శ్రీమద్రెడ్డి	0	84	0	85	తెలు
			గోదావరి					
					5	92	7	50

89

398	పర్వత ప్రాంతం పాగు	79	శ్రీమద్రెడ్డి	0	67	0	75	తెలు
			గోదావరి					
397	తెలు తెలు తెలు	78	గోదావరినది	0	78	0	90	తెలు
407	తెలు తెలు తెలు	61	కలింగామర్తి	1	37	1	43	తెలు
412	తెలు తెలు తెలు	12	తమిళనాడు	1	19	1	14	తెలు
			గోదావరి					
408	తెలు తెలు తెలు	82	తమిళనాడు	1	13	2	78	తెలు
					5	14	7	00

90

62	పర్వత ప్రాంతం పాగు	2	72	9	82	
91	384	తెలు తెలు	1	21	2	78

కాపు

పర్వత ప్రాంతం పాగు
 గోదావరినది
 తమిళనాడు

1	మొదట మూలం నాన	1	గ్రామమున అంతస్తు అనునది నాన	2 45
2	అ	2	గ్రామమున అంతస్తు అనునది	2 75
2	అ	3	అంతస్తు	3 57
2	అ	4	అంతస్తు	2 57
2	అ	27	అంతస్తు	0 66
2	అ	28	అంతస్తు	0 34
2	అ	79	అంతస్తు	0 84
3	అ	5	అంతస్తు	1 91
4	అ	72	అంతస్తు	0 20
4	అ	73	అంతస్తు	0 83
4	అ	74	అంతస్తు	1 00
4	అ	75	అంతస్తు	0 69

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అంతస్తు

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సంఖ్య	పాఠ్యము	పాఠ్యము	పాఠ్యము	సంఖ్య	పాఠ్యము	పాఠ్యము	పాఠ్యము	సంఖ్య	పాఠ్యము
13	పాఠ్యము	పాఠ్యము	పాఠ్యము	2	పాఠ్యము	1	23	పాఠ్యము	పాఠ్యము
13	పాఠ్యము	పాఠ్యము	పాఠ్యము	4	పాఠ్యము	1	81	పాఠ్యము	పాఠ్యము
14	పాఠ్యము	పాఠ్యము	పాఠ్యము	14	పాఠ్యము	0	66	పాఠ్యము	పాఠ్యము
15	పాఠ్యము	పాఠ్యము	పాఠ్యము	79	పాఠ్యము	0	57	పాఠ్యము	పాఠ్యము
16	పాఠ్యము	పాఠ్యము	పాఠ్యము	12	పాఠ్యము	1	56	పాఠ్యము	పాఠ్యము
17	పాఠ్యము	పాఠ్యము	పాఠ్యము	16	పాఠ్యము	3	10	పాఠ్యము	పాఠ్యము
18	పాఠ్యము	పాఠ్యము	పాఠ్యము	12	పాఠ్యము	1	54	పాఠ్యము	పాఠ్యము
19	పాఠ్యము	పాఠ్యము	పాఠ్యము	13	పాఠ్యము	3	28	పాఠ్యము	పాఠ్యము
20	పాఠ్యము	పాఠ్యము	పాఠ్యము	29	పాఠ్యము	0	28	పాఠ్యము	పాఠ్యము
20	పాఠ్యము	పాఠ్యము	పాఠ్యము	16	పాఠ్యము	0	09	పాఠ్యము	పాఠ్యము

Westerwold

Daño

മേലം

தேவன்

Caro

उत्तर ६

ഭിക്ഷ

உயர்வு

३७ एम० ए०

Dear

6

Bleed

சென்னை

Chen



60

[illegible]

21	పల్లెడు పప్పులు పోగు	17	బిత్తిరామ మూలు -	0 12	రెడ్డి తిరుం
22	దీని దీని దీని	18	బిత్తిరామ మూలు	0 35	దీని
23	దీని దీని దీని	19	బిత్తిరామ మూలు	0 64	దీని
24	దీని దీని దీని దీని	20	బిత్తిరామ మూలు	1 17	దీని
25	దీని దీని దీని	21	బిత్తిరామ మూలు	2 1	దీని
26	దీని దీని దీని దీని	22	బిత్తిరామ మూలు	0 37	దీని
27	దీని దీని దీని	23	బిత్తిరామ మూలు	0 29	దీని
28	దీని దీని దీని	24	బిత్తిరామ మూలు	0 50	దీని
56 22 56 38					

93

30	పల్లెడు పప్పులు పోగు	1	బిత్తిరామ మూలు	0 10 0 08	రెడ్డి తిరుం
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పల్లెడు పప్పులు పోగు

దీని

దీని

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దీని

దీని

పల్లెడు పప్పులు పోగు

పల్లెడు పప్పులు పోగు

30 పర్వత ప్రాంత సేవ 19 బత్తెరంప 0 21 0 29 బత్తెరంప
సేవలు.

30 టె టె టె 17 బత్తెరంప 0 13 0 19 టె
సేవలు-

0 44 0 56

94 107 పర్వత ప్రాంత సేవ 2

2 15

108 టె టె

1 70

110 టె టె

0 49

4 34 0 86

95 117 పర్వత ప్రాంత సేవ 37 పుష్పకర్ణాక్షి 0 16 0 13 బత్తెరంప
సేవలు.

117 టె టె టె 16 వత్తుగోరంప
సేవలు } 0 70 0 62 టె
పాపిరికాపట్న

116 టె టె టె 34 వత్తుగోరంప
సేవలు 0 88

118 టె టె టె టె టె 0 13
0 91 టె

119 టె టె టె 16 వత్తుగోరంప
సేవలు } 0 94 0 90 టె
పాపిరికాపట్న

పర్వత ప్రాంత సేవ
టె

టె

టె

బాల్కనీయరంప
పుష్పకర్ణాక్షి సేవలు

బాల్కనీయ

120	హర్షద్రుప్త	సాగు	29	అమృతమన	0	69	0	73	కూర్
115	తెలు	తెలు	7	3 కాంబుల	0	79	0	78	తె
114	తెలు	తెలు	6	గిరిరామ	0	48	0	62	తె
113	తెలు	తెలు	9	అమృతమన	0	60	0	58	తె
113	తెలు	తెలు	10	అమృతమన	0	60	0	69	తె
					<u>597 596</u>				

96	121	తెలు	తెలు	తెలు	28	అమృతమన	0	57	0	57	తెలు
	121	తెలు	తెలు	తెలు	27	అమృతమన	1	50	1	49	తెలు
	121	తెలు	తెలు	తెలు	28	అమృతమన	1	0	0	87	తెలు
	111	తెలు	తెలు	తెలు	29	అమృతమన	1	6	0	99	తెలు
	112	తెలు	తెలు	తెలు	16	అమృతమన	0 85 1 13 తెలు				
	109	తెలు	తెలు	తెలు	23	అమృతమన	0	61	0	38	తెలు
	113	తెలు	తెలు	తెలు	8	అమృతమన	0	59	0	63	తెలు
							6	12	6	00	

97 179 పంటకాల్చ పంటకాల్చ • 77 1 95

98 30 పంటకాల్చ పంటకాల్చ పంటకాల్చ 24 పంటకాల్చ పంటకాల్చ • 36 • 29 కాల్చ
పంటకాల్చ

30 పంటకాల్చ పంటకాల్చ పంటకాల్చ 20 పంటకాల్చ పంటకాల్చ • 08 • 08 పంటకాల్చ
పంటకాల్చ

0 44 • 37

99 29 పంటకాల్చ పంటకాల్చ పంటకాల్చ 2 పంటకాల్చ పంటకాల్చ • 53
పంటకాల్చ

29 పంటకాల్చ పంటకాల్చ పంటకాల్చ 3 పంటకాల్చ పంటకాల్చ 1 23

29 పంటకాల్చ పంటకాల్చ పంటకాల్చ 4 పంటకాల్చ పంటకాల్చ 1 23

29 పంటకాల్చ పంటకాల్చ పంటకాల్చ 79 పంటకాల్చ పంటకాల్చ • 70

31 పంటకాల్చ పంటకాల్చ పంటకాల్చ 16 పంటకాల్చ పంటకాల్చ } • 20
పంటకాల్చ

31 పంటకాల్చ పంటకాల్చ పంటకాల్చ 20 పంటకాల్చ పంటకాల్చ 1 •

31 పంటకాల్చ పంటకాల్చ పంటకాల్చ 8 పంటకాల్చ పంటకాల్చ • 38

32 పంటకాల్చ పంటకాల్చ పంటకాల్చ 1 పంటకాల్చ పంటకాల్చ } 1 23
పంటకాల్చ

పంటకాల్చ

పంటకాల్చ

పంటకాల్చ

పంటకాల్చ

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పంటకాల్చ

పంటకాల్చ

పంటకాల్చ

పంటకాల్చ

33	పల్లెటూరు పంపూస సాగు	75	తిక్కెడుదరాం	0	64	30
			సాగు			తిక్కెడు
34	తిల	తిల	తిల	21	బాంధ్రాపూస	0 28
					సాగు	
34	తిల	తిల	తిల	32	బాంధ్రాపూస	0 28
34	తిల	తిల	తిల	33	బాంధ్రాపూస	0 27
36	తిల	తిల	తిల	22	మల్లిపల్లిపాడి	5 46
					తిల	
					సాగు	
37	తిల	తిల	తిల	23	పల్లెటూరు	0 42
					సాగు	
					తిల	
38	తిల	తిల	తిల	24	పల్లెటూరు	0 93
					14 78 14 60	

100

35	పల్లెటూరు పంపూస సాగు	3	తిక్కెడుదరాం	2	2 87	తిల
			సాగు			

101

44	పల్లెటూరు పంపూస సాగు	3	తిక్కెడుదరాం	20	0 25	తిల
			సాగు			

45	తిల	తిల	తిల	26	బాంధ్రాపూస	0 90 0 90
46	తిల	తిల	తిల	16	పల్లెటూరు	0 41 0 53
					సాగు	

పాపాలు

తిల

తిల

తిల

తిల

తిల

తిల

తిల - పాపాలు
 తిల - పాపాలు
 తిల - పాపాలు
 తిల - పాపాలు
 తిల - పాపాలు

తిల

తిల

43. పాఠశాల ప్రారంభం సాగు 25 కేటగిరీ
 1 కనుపరిశీలన
 సాధనగాయ } 3 60 3 86 కేటగిరీ

3 కనుపరిశీలన

39	తెలుగు	తెలుగు	తెలుగు	24	పాఠశాల ప్రారంభం	0	03	} 0 15 తెలుగు
42	తెలుగు	తెలుగు	తెలుగు	తెలుగు	తెలుగు	0	18	
40	తెలుగు	తెలుగు	తెలుగు	23	పాఠశాల ప్రారంభం	0	1	0 07 తెలుగు
57	తెలుగు	తెలుగు	తెలుగు	76	పాఠశాల ప్రారంభం	0	28	0 26 తెలుగు
						6 61 6 02		

47 తెలుగు తెలుగు తెలుగు 9 కేటగిరీ ప్రారంభం
 48 తెలుగు తెలుగు తెలుగు 20 పాఠశాల ప్రారంభం
 49 తెలుగు తెలుగు తెలుగు 8 కేటగిరీ ప్రారంభం
 49 తెలుగు తెలుగు తెలుగు 9 కేటగిరీ ప్రారంభం
 49 తెలుగు తెలుగు తెలుగు 10 కేటగిరీ ప్రారంభం
 49 తెలుగు తెలుగు తెలుగు 80 కేటగిరీ ప్రారంభం

2 63 2 50

103 50 పాదారు ప్రారంభ పాదారు 12 చతురస్రములు } 4 84 5 02 కాలము
ఈ సమస్య

41 టెలు టెలు టెలు 59 పుస్తకములు 0 26 0 36 టెలు
5 10 5 38

104 61 పుస్తకములు కాలము 1 47 2 16

105 59 పాదారు ప్రారంభ పాదారు 30 నారసరేఖ 2 78 2 70 కాలము
60 టెలు టెలు టెలు 24 నారసరేఖ 0 77 0 82 టెలు
3 55 3 52

106 54 టెలు టెలు టెలు 26 తారాతారములు 0 91 0 89 టెలు
55 టెలు టెలు టెలు 27 పుస్తకములు 0 57 0 56 టెలు
56 టెలు టెలు టెలు 28 అంబుజములు 0 56 0 56 టెలు
56 టెలు టెలు టెలు 29 వస్తువులుగా 0 61 0 60 టెలు
57 టెలు టెలు టెలు 16 పాదారులుగా 0 66 0 63 టెలు
58 టెలు టెలు టెలు 12 చతురస్రములు 1 28 1 28 టెలు
4 57 4 52

పుస్తకములు

తెలుగులు

107 52 పార్శ్వ భ్రూత సాగలు 3 ప్రస్తుతిత్య 4 37 4 23 గుండు
 53 రేల రేల రేల 16 ముదిరిరావచ్చు
 వస్తువరగాను
 పట్టెను
 1 57 1 77 రేల
5 88 6 00

108 63 పార్శ్వ గాతలు 1 45
 64 రేల రేల 1 56
 65 రేల రేల 2 74
 66 రేల రేల 0 57
6 32 6 38

109 82 రేల రేల 0 24
 83 రేల రేల 0 19
 67 రేల రేల 0 94
 84 రేల రేల 0 32
1 69 0 73

కాలలుండు

కానికొక పండు పుష్పకా
 పరిలంపండులరక

రేల

రేల

రేల

పుష్పకాంతిని మోపకలకు
 మోక-మలలకుండా
 పుష్పకాంతిని మోపకలకు

పుష్పకాంతిని మోపకలకు

పుష్పకాంతిని మోపకలకు

[illegible]

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

111	103	సంకూల	వివేక	సాగు	2	ప్రభుత్వ	0	59	0	62	సంకూల
						మంజూరు					
	104	తె	తె	తె	3	ఈ గ్రామం					
	103	తె	తె	తె	4	ఈ గ్రామం	0	20	0	20	తె
	102	తె	తె	తె	2	ఈ గ్రామం					
	103	తె	తె	తె	3	ఈ గ్రామం	0	59	0	50	తె
	103	తె	తె	తె	4	ఈ గ్రామం	0	59	0	50	తె
	102	తె	తె	తె	6	గ్రామం	0	63	0	44	తె
	101	తె	తె	తె	7	గ్రామం	0	73	0	94	తె
	99	తె	తె	తె	16	గ్రామం	0	44	0	107	తె
	98	తె	తె	తె	20	గ్రామం	0	47	0	52	తె
	96	తె	తె	తె	17	గ్రామం	0	48	0	45	తె
	95	తె	తె	తె	19	గ్రామం	0	45	0	37	తె
	94	తె	తె	తె	32	గ్రామం	0	30	0	25	తె

ఈ గ్రామం

ఈ గ్రామం

86 పండుగ ప్రకారము 21 వారములు 0 37
 85 టిం టిం టిం టిం టిం 0 12 } 0 50 వారములు

5 96 5 76

112

105 పండుగ ప్రకారము 0 24

106 పండుగ ప్రకారము 5 57

100 గ్రామముల సంఖ్య 0 15

97 టిం 0 70

132 టిం 1 43

133 టిం 7 69

171 పండుగ ప్రకారము 0 14

78 గ్రామముల సంఖ్య 0 20

80 పండుగ ప్రకారము 0 17

87 గ్రామముల సంఖ్య 1 7

74 టిం టిం 1 13

18 79 23 75

151
 పండుగ ప్రకారము 21 వారములు 0 37
 టిం టిం టిం టిం టిం 0 12 } 0 50 వారములు

పండుగ ప్రకారము 21 వారములు 0 37
 టిం టిం టిం టిం టిం 0 12 } 0 50 వారములు

గ్రామముల సంఖ్య

గ్రామముల సంఖ్య

టిం

గ్రామముల సంఖ్య

గ్రామముల సంఖ్య

పండుగ ప్రకారము

గ్రామముల సంఖ్య

పండుగ ప్రకారము

టిం

625 51 631 18

[illegible]

ఆంధ్రప్రదేశ్ ప్రభుత్వం
హైదరాబాద్

Abstract of Survey Register.

Total number { Survey Fields 115
Sub-divisions 321

			By Revenue Accounts	By Survey
			Acres.	Acres.
Area in acres.	Mamul wet	{ Seri	73.48	73.19
		{ Inam	3.02	2.87
	New wet	{ Seri	357.81	364.68
		{ Inam	4.67	4.91
	Dry culti- -vation	{ Seri	108.52	108.35
		{ Inam	"	"
	Culturable waste		"	"
	Poramboke		78.01	77.18
Total.		625.57	631.18	

Camp. S. Canara Dist
1 March 93

W. J. J. J.
Superintendent Revenue Survey.

28/93.

13 of the Isallopalli Zamin
 Bandar Taluk Kistna District.
 గ్రామము తాలూకా జిల్లా.

12	13	14	15	16	CLASSIFICATION OF SOIL. తరహారి వివరములు.						REMARKS. మర.	
					As originally fixed. మొదటి నిశ్చయించిన ప్రకారము.		As revised సవరించిన ప్రకారము.		As finally settled. అఖిరు సైఫలాలి ప్రకారము.			
					Class. తరము.	Sort. రకము.	Class. తరము.	Sort. రకము.	Class. తరము.	Sort. రకము.		
12	13	14	15	16	17		18		19		20	
			Rs. రూ.	A. అ.	P. పై.	Rs. రూ.	A. అ.	P. పై.				
Columns 12 to 19 inclusive are filled up during Settlement.												



Proceedings of the Board of Revenue

(Revenue Settlement, Land Records and Agriculture.)

Dated 10th January 1893.

No. 37 miscellaneous.

READ..... The following telegram from His Collector of Godavari dated 31st December 1892:-

* Copy attached.
"Board's Proceedings 701 October 25th please advise whether Government have yet sanctioned resurvey of Zemindari and private villages in which there is no manool unit, see para 7 of government order rectd."

Resolution

The Collector will be informed that the papers quoted by him do not contemplate a resurvey of Zemindari and private villages in which there is no manool unit. The resurvey of Zemindari estates at present being carried on in the Krishna and Godavari districts has reference solely to the localization of manool unit.

To the Collector of Godavari
Copy to Supt. of L. Survey.

(True extract)

(Ld) P. Rajaratna Mudaliar
Secretary.

(True copy)

(True copy)

M. J. M. M.
Secretary.



12

Proceedings of the Board of Revenue
(Revenue Settlement, Land Records and Agriculture.)

Dated 8th April 1893.
No. 668 Route.

READ..... official memorandum from Government, Revenue
Department, dated 7th April 1893,

Resolution.

Ordered accordingly.

(True extract)

To the Secretary
to Government,
Revenue Department.

M. J. M. M.
Advt. Council by Secretary

with copy of M. 37
10/4/93

For Orders

In the letter read above the Superintendent of Survey reports the result of the Survey of Lemindari and Inam lands in the Krishna Delta ordered in G.O. 22-10-92 No. 6891.

2. The total area covered by the Survey is reported to be 670 Sq. miles; the total cost of the Survey to have amounted to Rs. 1,45,000 or Rs. 218 per Sq. mile and the excess irrigation disclosed by the Survey to be about 5000 acres.

— The last figure is stated to be subject to revision after investigation by the Revenue Department.

3. In ordering the Survey of the Krishna Delta Lemindaris, the Government said that the question of extending the Survey of the P. S. D. Delta Lemindaris

1893

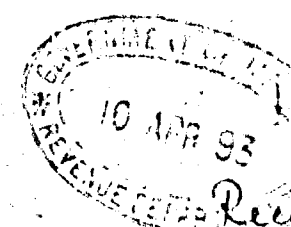
Board of Revenue

(Revenue Settlement, Land Records and Agriculture)

Madras
Current Revenue 1893

2

The Secretary,



Government,
Revenue Department

Recd. 10 April 1893
Proceedings dated 8 April 1893.

No. 668 Revenue

Subject

Submitting for reference a full copy

G.P. No. 37 M.
10.1.93

would be considered after the results of the Kistna Survey have been ascertained - (vide para 2 of G.O. $\frac{28-10-89}{6891}$, para 3 of G.O. $\frac{4-1-90}{10}$ and para 7 of G.O. $\frac{10-10-91}{949}$). But as the Govern-

ment has since sanctioned the survey of the Godavari Delta Zemindari (para 5 of G.O. $\frac{14-11-91}{1084}$) no orders on this point appear necessary now except with reference to the remarks of the Collector of Godavari and of the Board of Revenue referred to in the concluding para of the Superintendent's letter.

4. The Collector of Godavari is stated to have pointed out that the survey of Zemindari lands which are liable to water-rate has not been ordered. It is not clear whether the Collector's meaning is,

(a) that the survey itself of the Godavari Delta Zemindari has not yet been ordered

or

(a) That what has been ordered is the survey of only those lands which are not liable to water-rate.

5. For the first meaning (a), there appears to be justification in para 7 of G.O. $\frac{14-9-92}{971}$ which seems to imply that when Government passed that order, it was awaiting the results of the Kistna Survey before ordering a similar survey in the Godavari Delta. But the Superintendent of Survey has misunderstood para 5 of the previous G.O. $\frac{14-11-91}{1084}$ as having sanctioned the latter survey (vide also the last two sub-paras in para 7 of the Superintendent's report read in the last G.O. quoted above). If, however, it is thought that the Superintendent has misunderstood the G.O. in this particular, it will be necessary now to formally sanction the survey of the Godavari Delta Zemindari.

Lemundari

re 6. It is more likely
perhaps that the Collector's
meaning is that the survey
now ordered is limited to
mammal wet lands which is
also the Board's view. In
fact the Board goes further
and says (B.P. 3 10-1-93 no. 37)
(in C.S. 2746) that the re-
survey of Lemundari estates
at present being carried on
in the Krishna and Godavari
districts has reference solely
to the localization of mammal
wet. This, it is submitted,
is a complete misunderstanding
of the case since the
more important part of the
survey relates to lands which
have been or will be newly
brought under canal
irrigation. The mammal
wet lands are (or, at all
events, need be) only sur-
veyed in blocks, whereas the
new wet lands are surveyed
in fieldwar detail. The Board's
mistake is probably due to the

fact that the Superintendent, though
himself free from any miscon-
ception on the point, has never
frequently referred to this mistake
as relating to mammal wet lands or
to zemindari lands not but
liable to water-rate (see para
5-7, 15 of his report to
underly. 14-9-92). The
Board's mistake may be
pointed out.

7. Whether the Superintendent
himself has quite cor-
rectly understood the scope of
the survey might seem some-
what doubtful, seeing that
he requests formal sanction
for a fieldwar survey of all
zemindari lands within
the delta. Fieldwar survey
is required only in respect
of such lands as have been
or are likely to be brought
under Canal irrigation. Un-
irrigable lands may be sur-
veyed in large blocks
without being split up into
fields. But considering
that it might be difficult

2 am lost in detail

now to decide future possibilities in respect of irrigation it is perhaps well that all Zamindari lands are surveyed in fieldwork detail.

8. In the case of localized marmul wet-lands, the Survey adopted appears to have been blackwar (vide

3.9. Survey no. 92 in the map forming Appendix no 2 to the current) and although this will be sufficient so long as irrigation is confined to old sources, survey

in smaller fields will be necessary if a second crop not grown under the old sources is likely to be raised with the help of Canal water. It is perhaps considered that such cases would be rare and could be dealt with, when they arise, by the Revenue ^{Dept.} Officers.

9. In para 6 of his report, the Superintendent remarks that the recent employment of Karnau

the same method by the ?

surveyors and the cheaper method of survey, lately introduced will greatly lessen the cost of work in the Godavari district: but it is thought that the cheaper method will apply only to Government villages and not to the Zamindari and Maram villages now under consideration.

2.11.

23/4 Satisfaction with the present state of the survey in the Krishna Delta. The survey of the Zamindari lands is ^{distinctly} authorized in para 5. So dated 14 Nov 91 to 1000 + para 7. So 2. 14 Sept 92 no 921, referring to this survey says that it is intended to employ ment 2 to 3 parties in making a survey of the Godavari Dist. is a survey of Zamindari. The survey of Zamindari is as to the survey of this survey of Zamindari lands. The Board is of the opinion that it is intended to 'I am aware' is clear.

This is the case, all that the Survey Department has to do in respect of these lands is to demarcate them in suitable blocks. ~~But~~ All lands which are outside this area but which are commanded by it

Similar survey should be
carried out in respect of
all lands Commanded
by the Canal in those states
in which the arrangement
is to allow free irrigation
for the "judicial" area
and where ~~any other~~
~~not irrigated area~~ ^{only it is} ~~is~~
~~is no objection in trying to~~
~~from 5. Geo. 2 to June 1900~~
~~arrangement in case of old~~
irrigation.

24
4/10

Lib. James ordered

P.

8 The Superint. of Lumber

25th B^d. of Dec. (Dec. 1881.)

16 Dec 1892 Rev. (Land Reg.)

Draft order

See the results of the
Survey of Lewisburg and
some lands in the
Indian Domain.

Handwritten notes and signatures, including "F. L. ...", "J. L. ...", and "G. L. ...".