

Strigation Revenue Report
of the
Bombay Presidency

1895-96

IRRIGATION REVENUE REPORT

OF THE

BOMBAY PRESIDENCY,

EXCLUDING SIND,

1895-96.

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IRRIGATION REVENUE REPORT, BOMBAY
PRESIDENCY (EXCLUDING SIND).

1895-96.

PART I.

COMPRISING WORKS FOR WHICH CAPITAL AND
REVENUE ACCOUNTS ARE KEPT.

GENERAL REMARKS.

Works in operation. The following list includes all the works in operation, 36 in number:—

Collectorate.	Number.	Names of Works.	Storage Works completed or proposed.
MAJOR WORKS.			
<i>Protective Works.</i>			
Poona	1	Nira Canal	Storage lake at Bhatghar practically completed.
Sholápur	2	Mhasvad Tank	Completed, except a part of the waste weir which was demolished in order to enable repairs to the dam to be carried out. This work is still to be completed.
<i>Productive Works.</i>			
Ahmedabad	5	Háthmati Canal	Storage works under consideration.
Khándesh	6	Lower Pánjhra River Works.	Storage Tank at Mukti complete.
Násik	7	{ Kádya } Pálkhed Canal . River } Ojhar Tánbat Works } Canal. { Wadáli Canal...	{ Wághad Tank completed with the exception of the waste weir. Water consequently is not stored to full designed height.
Ahmednagar	8	Pravara River Works—Lákh Canal.	Máládevi Tank proposed for this work, but sanction withdrawn pending enquiry into modified proposals for the dam, and alternative proposals for a tank at Samrad, revised survey of which is completed and plans, &c., have been prepared.
Poona	9	Mutha Canals	Lake Fife at Khadakvásla complete.
Sholápur	10	Ekrúk Tank	Complete.
Sátára	11	Krishna Canal	Site for a storage reservoir is under consideration.
MINOR WORKS AND NAVIGATION.			
Ahmedabad	12	Khári Cut	The Bokh project under consideration.
Khándesh	13	Hartála Tank	Complete.
	14	Mhasva do.	Do.
	15	Jámda Canals	Reservoir at Chankápur sanctioned and commenced, but work suspended. Question of resumption of work under consideration.
Násik	16	Parsul Tank	Complete.
Ahmednager	17	Pravara River Work—Ojhar Canal.	<i>Vide</i> remarks against (8) Lákh Canal.
	18	Bhatodi Tank	Complete.

Collectorate.	Number.	Names of Works,	Storage Works completed or proposed.
MINOR WORKS AND NAVIGATION—continued.			
Poona ...	19	Mátoba Tank	Complete.
		20 Kásurdi do.	Do.
		21 Shirsuphal Tank	Do.
		22 Bhádalvádi do.	Do.
Sholápur ...	23	Koregaon do.	Do.
		24 Ashti do.	Do.
Sátára ...	25	Revári Canal... ..	Storage Tank at Sonkeh proposed.
		26 Upper Mán River Works	Pingli Tank complete.
		27 Yerla River Irrigation Works.	Nehr Tank complete.
		28 Chikhli Canal	No Storage works yet proposed but subject being considered.
Bijápur ...	29	Maini Tank	Complete.
		30 Muchkundi Tank	Do.
Belgaum ...	31	Nilgund do.	Do.
		32 Gadikeri do.	Do.
Dhárwár ...	33	Dámbal do.	Do.
		34 Medleri do.	Do.
		35 Madag do.	Do.
		36 Asundi do.	Do.
		37 Mávinkop do.	Do.
<i>Provincial.</i>			
Belgaum ...	39	Gokák Canal, 1st Section ...	Storage works at Dhupdal completed. Further raising of the weir lately sanctioned.

Nos. 3 and 4, or Chankápur and Máládevi Tanks, are not included, as the works were not in operation; the former has been suspended and the latter has not yet been approved. No. 38—Gokák Canal, 2nd Section, is in abeyance.

2. The total capital outlay during and up to the end of the year was as follows:—

Main Heads.	To end of 1894-95.	During 1895-96.	To end of 1895-96.
	Rs.	Rs.	Rs.
A.—Direct Charges.			
I.—Works	1,98,27,081	74,207	1,99,01,288
II.—Establishment	45,01,191	14,564	45,15,755
III.—Tools and Plant	4,99,443	4,983	4,94,460
IV.—Suspense ... ..	.....	.....	.....
Profit and Loss ... ..	.....	.....	.....
Total A ...	2,48,27,715	83,783	2,49,11,503
<i>Deduct—Receipts on Capital Account.</i>	35,225	156	35,381
Net Total, A.—Direct Charges ...	2,47,92,490	83,632	2,48,76,122
B.—Indirect Charges.			
Capitalization	5,24,208	58,060	5,82,268
Loss by Exchange ... ..	.....	.....	.....
Leave and Pension Allowances ...	8,00,815	2,041	8,02,856
Total, B.—Indirect Charges ...	13,25,023	60,101	13,85,124
Grand Total A and B ...	2,61,17,513	1,43,733	2,64,61,246

3. The following abstract shows the details of the above:—

	Number of Works.	EXPENDITURE, 1895-96.			Total Expenditure, Direct and Indirect, to end of 1895-96.	Amount of sanctioned Estimates.
		Direct.	Indirect.	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.
<i>Major Works.</i>						
Protective Works	In operation ...	2	25,600	56,524	82,124	82,32,709
	In abeyance ...	2	1,048	4	1,052	17,42,810
	Total ...	4	26,648	56,528	83,176	99,75,519
Productive Works	In operation ...	7	33,489	1,612	35,151	1,08,71,463
Minor Works	In operation ...	26	7,086	1,633	8,719	61,59,559
	In abeyance ...	1	...	...	...	1,90,284
	Total ...	27	7,086	1,633	8,719	63,49,843
Provincial Minor Works	In operation ...	1	16,409	298	16,707	*12,11,583
Grand Total	...	39	83,632	60,101	1,43,733	2,62,61,246

* Including expenditure charged to "35—Construction of Protective Irrigation Works."

The number of works in operation is 36, the same as in the previous year. The Chankápur and Máládevi Tanks and the Gokák Canal, 2nd Section, are still in abeyance. Government have ordered further investigations in regard to the Chankápur Tank, and the requisite survey has been made. A report on the result of this survey is awaited.

The revision of the Samrad Tank project, which is an alternative to the Máládevi Tank project and is designed to afford storage for the development of the Lákh and Ojhar canals, is receiving attention.

In view of the unsatisfactory financial result of the Lákh Canal the Government of India have raised the question whether it is advisable to continue its maintenance, and have invited the opinion of this Government. The matter awaits receipt of reports from local officers.

The greater portion of the capital expenditure during the year was on the Nira Canal, a Protective work, and on the Mutha Canals, a Productive work, the outlay on which is being incurred from the ordinary revenues and charged to the head "*Minor Works and Navigation.*"

The work done on the Nira Canal was chiefly in connection with the Bhatghar Reservoir. All works in progress at the end of last year were completed. The new works of importance were an additional training wall for the north waste weir channel and two small walls at the south weir channel. All the gates on the south weir, 33 in number, were erected and in working order before the monsoon.

On the Mutha Canals the greater portion of the expenditure was on the alterations and improvements to the Poona Water-supply Works. Five new settling tanks have been built with a capacity of 5 days' supply, and arrangements have been made for passing water into the filters and for the efficient cleaning of the tanks when required.

A brief report on the new works carried out for the improvement of the Poona Water-supply has been published.

4. The Interest Account to end of the year stands as follows:—

	AMOUNT.				AMOUNT.		
	Protective Works.	Productive Works.	Total.		Protective Works.	Productive Works.	Total.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Total Interest charges to end of 1894-95	32,58,879	88,99,995	1,21,58,874	Net Revenue realized to end of 1894-95	17,315	19,21,002	19,38,317
Do. during 1895-96	2,95,920	4,14,473	7,10,393	Do. during 1895-96	35,878	2,37,194	2,73,072
					63,193	21,58,196	22,11,389
				Balance net Interest charges to end of 1895-96	35,29,606	71,56,277	1,06,85,883
Total to end of 1895-96	35,32,799	93,14,473	1,28,67,272	Total	35,82,799	93,14,473	1,28,97,272

5. The gross revenue realised from all sources during the year, after deducting refund of revenue (Rs. 802), was Rs. 5,98,839, of which Rs. 5,84,384 were direct, and Rs. 14,455 indirect, receipts. The net revenue actually realised was Rs. 3,04,552.

The gross revenue shows an increase of Rs. 35,357, and the net revenue an increase of Rs. 91,996.

6. The gross area under command was 886,086 acres and the irrigable area at present is 316,224 acres.

7. The financial results of the year by main heads were as follows:—

	Areas Irrigated.	REVENUE REALIZED.			Working Expenses.	Net Revenue.
		Direct Receipts.	Share of Land Revenue.	Total.		
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Class I.—Works for which Capital and Revenue Accounts are kept.</i>						
Major Works ... (Protective Works	26,934	1,02,678	...	1,02,678	66,800	35,878
... (Productive Works	23,055	3,68,498	7,571	3,76,069	1,98,875	2,37,194
Total ...	49,989	4,71,176	7,571	4,78,747	2,05,675	2,73,072
Minor Works ...	21,676	90,188	6,884	97,072	82,030	15,042
Provincial Minor Works ...	4,464	23,920	...	23,920	6,582	16,438
Total Class I ...	76,129	5,84,384	14,455	5,98,839	2,94,287	3,04,552

The area shown as irrigated includes 1,206 acres on which a consolidated land and water assessment is levied. This is derived from old works on which expenditure on improvements only has been incurred.

8. The figures showing areas irrigated, revenue assessed and realized, and working expenses, as compared with former years, are as follows:—

Years.	Area irrigated.	REVENUE.		Working Expenses.
		Assessment.	Realization.	
	Acres.	Rs	Rs.	Rs.
1883-84 ...	32,962	2,44,247	2,78,130	1,70,089
1884-85 ...	39,655	2,47,702	2,60,080	1,92,612
1885-86 ...	59,450	2,83,232	2,79,877	2,10,686
1886-87 ...	42,628	3,03,475	3,34,468	2,39,417
1887-88 ...	46,187	3,49,512	3,43,445	2,41,385
1888-89 ...	79,195	4,14,153	3,71,545	2,34,312
1889-90 ...	85,550	4,49,838	4,22,859	2,47,126
1890-91 ...	74,852	4,44,281	4,60,813	2,39,615
1891-92 ...	96,025	5,76,586	5,12,072	2,85,893
1892-93 ...	65,487	4,79,042	5,45,542	3,07,778
1893-94 ...	79,950	5,91,487	5,73,746	2,87,418
1894-95 ...	84,237	5,93,737	5,63,482	3,50,926
1895-96 ...	74,923	6,32,211	5,98,839	2,94,287

There was a decrease of 9,314 acres in the total area irrigated as compared with the previous year, distributed over the several classes of works as follows:—

	Acres.
Protective Works ...	—5,662
Productive „ ...	—5,056
Minor „ ...	+1,303
Do. Provincial ...	+101
Total ...	9,314

Under Protective Works the Nira Canal shows a decrease of 4,917 acres and the Mhasvad Tank a decrease of 745 acres. Under Productive Works, the Mutha Canals account for a decrease of 1,944 acres, and the Krishna Canal a decrease of 1,467 acres, and the balance is the net result of increases and decreases under the remaining works. Many Minor Works show an increase, the most noticeable being that on the Khari Cut.

Distribution of area. 9. The total area irrigated was distributed as follows :—

		Kharif..	Rabi.	Total.
		Acres.	Acres.	Acres.
1894-95	...	41,314	42,923	84,237
1895-96	...	39,865	35,558	74,923

Both the kharif and rabi areas show a decrease. The differences in areas as compared with those of the previous year have been explained in the review of the Annual Statement of Irrigation and Rainfall.

Difference between area applied for and area irrigated. 10. The area irrigated was in excess of the area applied for, the figures being 74,923 and 67,311 acres respectively.

The area irrigated includes 1,762 acres of the permanent garden irrigation under the Lower Pánjhra River Works. Eliminating these figures the area irrigated is reduced to 73,161 acres. The excess in the measured area over that applied for was chiefly on the Nira Canal, the difference was largely due to the cultivators having entered the minimum area they could be charged for, while in most cases they irrigated much more.

Distribution of rainfall. 11. The following table contrasts the distribution of rainfall in each month for the last five years :—

	I.—Works having an unfalling Supply.					II.—Works dependent on Local Rainfall.				
	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
<i>Kharif.</i>										
June	2.57	5.83	9.85	3.27	5.24	2.58	8.04	6.92	2.45	2.31
July	7.11	6.36	2.05	9.30	5.36	3.86	3.91	3.01	6.85	4.18
August	3.03	6.51	4.58	1.98	3.09	3.15	6.56	3.36	3.09	2.30
September	2.93	9.13	2.43	6.30	8.73	2.78	7.87	4.04	6.65	11.60
Total	15.64	27.83	18.91	20.85	22.42	12.39	26.38	17.33	19.04	20.39
<i>Rabi.</i>										
October	3.25	5.14	2.24	4.77	3.65	3.81	8.77	4.13	3.04	3.80
November	0.26	0.34	1.16	0.14	0.49	0.13	0.63	0.96	...	0.59
December ... ..	...	0.02	...	...	...	...	...	...	0.01	...
January ... ..	...	...	...	...	...	...	...	...	...	...
Total	3.51	5.50	3.40	4.91	4.14	4.04	9.40	5.09	3.05	4.39
Total Kharif and Rabi	19.15	33.33	22.31	25.76	26.56	16.43	35.78	22.42	22.09	24.78

The rainfall in the year under report compared with that of the previous year varied from the normal in the case of almost all works.

The average in the two seasons, taking all the works together, was 24.54 inches as compared with 23.13 inches in 1894-95.

Collections of Revenue. 12. The state of the collections was as follows:—

		Rs.
Balance of demands unrealized at the commencement of the year.		40,417
Demand of the year—		
Rabi, 1894-95	... ..	Rs. 1,09,492
Khari, 1895-96	... ..	,, 3,51,557
Miscellaneous receipts...	... ..	,, 1,65,280
		6,26,329
Remissions	... ..	Total ... 6,66,746
		... 544
		Net Total ... 6,66,202
Amount unrealized at the close of the year		... 81,016
Actual receipts of the year		... 5,85,186
<i>Add—</i>		
Share of Land Revenue		... 14,455
		5,99,641
<i>Deduct—</i>		
Refunds of Revenue		... 802
Revenue realized as per paragraphs 5, 7 and 8		... 5,98,839

The remissions and refunds together amount to Rs. 1,346.

The total amount, Rs. 81,016, unrealized at the close of the year, shows a large increase; this total is made up of the following:—

		Rs.
Mutha Canals	... ..	44,869
Khari Cut	... ..	11,950
Krishna Canal	... ..	10,320
Nira Canal	... ..	2,851
Jamda Canals	... ..	1,830
Kadva River Works	... ..	1,556
Mhasvad Tank	... ..	1,514
Bhatodi Tank	... ..	1,205
Other Works	... ..	4,811
		Total ... 81,016

The outstanding balance on the Mutha Canals, which is the heaviest, includes Rs. 9,941 on account of bills for water rates for March 1896, prepared at the end of the month. Omitting this item the balance represents the unrealized amount on account of irrigation, the greater portion of which has since been recovered, leaving only Rs. 5,761 unrealized at the end of June 1896. The heavy balance is ascribed to the large sum to be collected during 1895-96.

On the Khari Cut out of the balance of Rs. 11,950, Rs. 7,327 were recovered after the close of the year, and the Revenue Department have issued the necessary orders for the prompt recovery of the remainder. Owing to the peculiar circumstances of cultivation under the Khari Cut the Executive Engineer is unable to submit his demand statements within the date fixed in the Canal rules and this accounts, in a great measure, for the heavy outstandings.

No explanation has been furnished of the outstandings on the Krishna Canal.

In the case of the balance on the Nira Canal, the Revenue authorities explain that the dates of payment of instalments of land revenue and irrigation assessments being almost the same, the people find it hard to pay the amounts due in time. The same reason is assigned for the balances on the Mhasvad Tank and some other works. The balances in some cases have since been recovered and in others the Revenue authorities are taking steps for recovery.

As regards the balance on the Jámnda Canals, all has been realized in 1896-97.

The balance on the Bhatodi Tank is attributed to the poverty of the people from whom the amounts are due. Most of the complaints of the rayats, alluded to in the last year's report, have, it is stated, been disposed of in 1895-96.

Of the balance on the Kadva River Works, Rs. 1,355 are on the Pálkhed Canal. The amount could not be realized before the end of the year as the crops of the people from whom the amounts were due had not been harvested. Out of the total balance of Rs. 1,355, Rs. 1,132 have since been recovered.

13. The total working expenses for the year amounted to Rs. 2,94,287 against Rs. 3,50,926 in the previous year, showing a decrease of Rs. 56,639 distributed as follows :—

				1894-95.	1895-96.	Difference.
				Rs.	Rs.	Rs.
Major Works—						
Protective Works	...	...	...	82,018	66,800	—15,248
Productive Works	...	...	...	1,48,643	1,38,875	—9,768
			Total	2,30,691	2,05,675	—25,016
Minor Works and Navigation	...	...	...	1,14,573	82,030	—32,543
Provincial Minor Works	...	...	...	5,662	6,582	+920
			Grand Total	3,50,926	2,94,287	+56,639

All classes of works show a decrease with the exception of Provincial Minor Works.

The working expenses of the Nira Canal include a sum of Rs. 1,952 for special repairs consisting of strengthening the banks by puddled earth, in places where they were found to be unsafe or leaky owing to the nature of the soil of which they were originally made. The total charges amounted to Rs. 50,978 as compared with Rs. 53,588 in the previous year. With 96 miles of main canal in operation this gives a rate of Rs. 531.02 per mile and it includes the maintenance of 132 miles of distributaries. The cost of maintenance per acre irrigated was Rs. 2.17 against Rs. 1.89 in the previous year, the rather high rate being due to decrease in the irrigated area.

The working expenses of the Mhasvad Tank include a sum of Rs. 2,273 for the reconstruction of 2 feet of the waste weir.

The expenditure on account of working expenses of the Mutha Canals amounted to Rs. 77,589 against Rs. 79,709 in the previous year, including all charges. Out of the total, Rs. 36,103 are debitable to maintenance of water-supply and the balance, Rs. 41,486, to maintenance of irrigation. As compared with the previous year there is an excess on the working charges of the Poona Water-supply due to employment of a mechanic at Rs. 180 per mensem and repairs to fire plugs.

There is an excess in working expenses of the Ekruk Tank principally due to the inclusion of Rs. 3,041, being the cost of a new iron bridge provided to the outlet tower of the perennial canal. The excess on the Kásurdi Tank was due to special repairs to the dam.

The increase under Provincial Minor Works (Gokák Canal, 1st Section and Storage Works) is due to the debit of a share of Canal and Sub-Divisional Office Establishment to Revenue management and to the heavier collection charges (Rs. 313) on account of the water-power realizations which amounted to Rs. 10,816 as compared with Rs. 4,920 in the previous year.

The percentage of working expenses on gross assessed revenue was 46 against 59.10 in the previous year, and the rate per acre was Rs. 3.93 against Rs. 4.17 in the previous year.

Charges under principal heads.

14. The following table contrasts the charges under the principal heads with those of the two previous years :—

					1893-94.	1894-95.	1895-96.
					Rs.	Rs.	Rs.
Works...	...	...	...	...	12,641	27,253	7,775
Repairs	...	...	...	...	1,21,787	1,22,406	1,14,727
Establishment	...	...	...	...	1,04,596	1,48,362	1,24,108
Tools and Plant	...	...	...	...	9,482	9,006	6,969
Total in the Public Works Department					2,49,506	3,07,117	2,53,579
Collection charges	...	...	...	...	23,271	23,039	23,295
Indirect charges	...	...	...	...	14,641	20,770	17,413
Total					2,87,418	3,50,926	2,94,287

The establishment charges, divided between 'Direction and Accounts' and 'Executive,' compare as follows with those for the previous year :—

					1894-95.	1895-96.	Difference.
					Rs.	Rs.	Rs.
Direction and Accounts	...	...	...	...	22,304	10,075	—12,229
Executive	...	...	...	...	1,26,058	1,14,033	—12,025
Total					1,48,362	1,24,108	—24,254

Detail of working.

15. The following table gives the details of the working expenses of some of the principal works :—

Names of Works.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT.		WORKING EXPENSES TOTAL IN THE PUBLIC WORKS DEPARTMENT.	
		Total Cost.	Per Acre.	Per mile of Main Canal.	Per Acre Irrigated.
<i>Canals.</i>	Rs.	Rs.	Rs.	Rs.	Rs.
Nira Canal	3.70	1,820	0 1 3	451	1.85
Háthmati Canal	2.65	141	0 0 8	274	1.68
Kádva River Works	3.87	235	0 1 6	350	3.39
Pravara River Works—Lákh Canal	3.35	40	0 1 11	413	28.45
Mutha Canals	21.83	1,432	0 2 10	742	8.02
Krishna Canal	12.00	593	0 2 11	288	3.17
Jámda Canals	5.58	59	0 1 9	231	6.12
Pravara River Works—Ojhar Canal	3.26	150	0 1 7	667	6.68
Gokák Canal, 1st Section	2.47	610	0 2 2	318	1.15
Upper Mán River Works	4.08	298	0 2 11	268	2.67
Revári Canal	4.64	238	0 3 1	621	2.54
Chikhli do.	4.39	13	0 0 7	125	2.16
Khári Cut	4.75	184	0 1 0	331	1.69
<i>Tanks.</i>					
Mhasvad Tank	3.61	840	0 3 10	239	4.14
Ekrúk do.	4.74	570	0 3 8	294	5.45
Bhatodi do.	3.73	10	0 1 9	1,734	8.90

Names of Works.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT.		WORKING EXPENSES TOTAL IN THE PUBLIC WORKS DEPARTMENT.	
		Total Cost.	Per Acre.	Per mile of Main Canal.	Per Acre Irrigated.
<i>Tanks—continued.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
Matoba Tank	7.68	63	0 0 10	140	2.04
Shirsuphal do.	2.87	15	0 0 4	200	3.48
Bhádálvádi do.	2.74	41	0 0 9	180	2.10
Maini do.	3.94	140	0 1 10	306	2.37
Madag do.	2.44	...	.....	160	1.54

The cost of measurement per acre was in many cases the same as in the previous year. The rate on the Bhatodi Tank, remarked on last year, shows some improvement. The cost of measurement on the Mhasvad and Ekruk tanks was rather high in the year under report owing to decrease in the irrigated area while the measuring establishment remained as usual.

The cost of measurement under the Krishna and Gokák canals and Maini Tank is much less than last year. On the Madag Tank no special measuring establishment was employed owing to the land under command having been subdivided into pôt numbers, suitable for irrigation.

The conditions on the various works differ so much that it is scarcely possible to compare the figures themselves.

15 a. The orders contained in Government Resolution No. 172 A. I.—454 dated 15th September 1879, required that special sanction of Government should be obtained to excesses over prescribed percentages of establishment charges to revenue expenditure. The rules which now govern the debit of establishment charges, however, made these orders unnecessary, and they were accordingly cancelled in Government Resolution No. 213 A. I.—1289, dated 14th August 1895. But it was thought necessary to carefully watch the establishment expenditure on revenue management, and it was directed that the Annual Revenue Reports should furnish information showing for each work—

- (a). The cost of establishment debited to revenue management.
- (b). The percentage this bears to the assessed revenue from the irrigation.
- (c). Incidence of cost per acre irrigated.

The information furnished in compliance with these orders is shown in the following table:—

	Establishment debited to Revenue management.	Percentage of Revenue Establishment on assessed Revenue.	Incidence of cost per Acre irrigated.
1. Nira Canal	9,634	11.10	0.41
2. Mhasvad Tank	2,927	23.28	0.84
3. Háthmati Canal	514	5.63	0.15
4. Lower Pánjhra River Works	794	7.33	0.28
5. Kádva River Works	1,077	11.17	0.43
6. Pravara River Works—Lákh Canal	104	9.29	0.31
7. Mutha Canals	7,252	4.08	0.89
8. Ekruk Tank	2,508	20.40	0.96
9. Krishna Canal	1,485	3.86	0.46
10. Khári Cut	562	3.78	2.18
11. Hartála Tank	166	107.79	2.37
12. Mhasva do.	245	106.52	4.54
13. Jámda Canals	2,231	27.16	1.52
14. Parsul Tank	289	32.04	1.15
15. Pravara River Works—Ojhar Canal	480	7.75	0.25
16. Bhatodi Tank	172	5.26	0.20
17. Matoba do.	395	4.40	0.34
18. Kásurdi do.	200	2500.00	66.67
19. Shirsuphal Tank	274	13.28	0.38
20. Bhádálvádi do.	278	12.13	0.33

	1893-94.	1894-95.	1895-96.
	Rs.	Rs.	Rs.
Works... ..	13,641	27,253	7,775
Repairs	1,21,787	1,22,496	1,14,727
Establishment	1,04,556	1,48,362	1,24,108
Tools and Plant	2,482	9,006	6,260
Total in the Public Works Department	2,49,506	3,07,117	2,53,570
Collection charges	23,271	23,039	23,295
Indirect charges	14,641	20,770	17,413
Total	2,87,418	3,50,926	2,94,287

The establishment charges, divided between 'Direction and Accounts' and 'Executive,' compare as follows with those for the previous year:—

	1894-95.	1895-96.	Difference.
	Rs.	Rs.	Rs.
Direction and Accounts	22,304	10,075	—12,229
Executive	1,26,058	1,14,033	—12,025
Total	1,48,362	1,24,108	—24,254

15. The following table gives the details of the working expenses of some of the principal works:—

Names of Works.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT.		WORKING EXPENSES TOTAL IN THE PUBLIC WORKS DEPARTMENT.	
		Total Cost.	Per Acre.	Per mile of Main Canal.	Per Acre Irrigated.
<i>Canals.</i>	Rs.	Rs.	Rs.	Rs.	Rs.
Nira Canal	3-70	1,520	0 1 3	451	1-85
Hāthmati Canal	2-65	141	0 0 8	274	1-08
Kādva River Works	3-87	235	0 1 6	350	3-30
Pravara River Works—Lākh Canal	3-35	40	0 1 11	413	28-45
Mutha Canals	21-83	1,432	0 2 10	742	8-02
Krishna Canal	12-00	593	0 2 11	288	3-17
Jāmda Canals	5-58	59	0 1 9	231	6-12
Pravara River Works—Ojhar Canal	3-26	150	0 1 7	667	6-68
Gokāk Canal, 1st Section	2-17	610	0 2 2	318	1-15
Upper Mān River Works	4-08	298	0 2 11	238	2-87
Revāri Canal	4-61	238	0 3 1	621	2-54
Chikhli do.	4-39	13	0 0 7	155	2-16
Khāri Cut	4-75	184	0 1 0	331	1-09
<i>Tanks.</i>					
Mhasvad Tank	3-61	840	0 3 10	339	4-14
Ekrūk do.	4-74	570	0 3 6	294	5-45
Bhatodi do.	3-73	10	0 1 9	1,734	8-00

Names of Works.	Average Incidence of Water-rate per Acre.	COST OF MEASUREMENT.		WORKING EXPENSES TOTAL IN THE PUBLIC WORKS DEPARTMENT.	
		Total Cost.	Per Acre.	Per mile of Main Canal.	Per Acre Irrigated.
<i>Tanks—continued.</i>	Rs.	Rs.	Rs.	Rs.	Rs.
Matoba Tank	7.68	63	0 0 10	110	2.01
Shirsuphal do.	2.87	15	0 0 4	200	2.48
Bhádálvádi do.	2.71	41	0 0 9	189	2.10
Maini do.	3.94	140	0 1 10	306	2.37
Madag do.	2.44	...	.....	160	1.54

The cost of measurement per acre was in many cases the same as in the previous year. The rate on the Bhatodi Tank, remarked on last year, shows some improvement. The cost of measurement on the Mhasval and Ekruk tanks was rather high in the year under report owing to decrease in the irrigated area while the measuring establishment remained as usual.

The cost of measurement under the Krishna and Gokák canals and Maini Tank is much less than last year. On the Madag Tank no special measuring establishment was employed owing to the land under command having been subdivided into pôt numbers, suitable for irrigation.

The conditions on the various works differ so much that it is scarcely possible to compare the figures themselves.

15 a. The orders contained in Government Resolution No. 172 A. I.—454 dated 15th September 1879, required that special sanction of Government should be obtained to excesses over prescribed percentages of establishment charges to revenue expenditure. The rules which now govern the debit of establishment charges, however, made these orders unnecessary, and they were accordingly cancelled in Government Resolution No. 213 A. I.—1289, dated 14th August 1895. But it was thought necessary to carefully watch the establishment expenditure on revenue management, and it was directed that the Annual Revenue Reports should furnish information showing for each work—

- (a). The cost of establishment debited to revenue management.
- (b). The percentage this bears to the assessed revenue from the irrigation.
- (c). Incidence of cost per acre irrigated.

The information furnished in compliance with these orders is shown in the following table:—

	Establishment debited to Revenue management.	Percentage of Revenue Establishment on assessed Revenue.	Incidence of cost per Acre irrigated.
1. Nira Canal	9,634	11.10	0.41
2. Mhasval Tank	2,927	23.28	0.84
3. Háthmati Canal	514	5.63	0.15
4. Lower Pánjhra River Works	794	7.39	0.28
5. Kádva River Works	1,077	11.17	0.43
6. Pravara River Works—Lákh Canal	104	9.20	0.31
7. Mutha Canals	7,252	4.08	0.89
8. Ekruk Tank	2,508	20.40	0.96
9. Krishna Canal	1,485	3.86	0.48
10. Khári Cut	562	3.78	2.18
11. Hartála Tank	166	107.73	2.37
12. Mhasva do.	245	106.52	4.54
13. Járida Canals	2,231	27.16	1.52
14. Parsul Tank	289	32.04	1.15
15. Pravara River Works—Ojhar Canal	480	7.75	0.25
16. Bhatodi Tank	172	5.26	0.20
17. Matoba do.	395	4.40	0.34
18. Kásurli do.	200	2500.00	66.67
19. Shirsuphal Tank	274	13.28	0.38
20. Bhádálvádi do.	278	12.13	0.33

	Establishment debited to Revenue management.	Percentage of Revenue Establishment on assessed Revenue.	Incidence of cost per Acre irrigated.
21. Koregaon Tank	238	28.00	0.63
22. Ashti do.	553	13.90	0.42
23. Revári Canal	316	5.56	0.26
24. Upper Mán River Works	629	9.44	0.38
25. Yerla River Irrigation Works	932	10.27	0.35
26. Chikhli Canal	147	8.88	0.39
27. Maini Tank	842	17.82	0.70
28. Muchkundi Tank	5	6.10	0.25
29. Nilgund do. ... ..	...	...	...
30. Gadikeri do. ... ..	...	...	...
31. Dámbal do.	313	26.98	1.02
32. Medleri do.	258	49.42	1.78
33. Madag do.	312	13.73	0.33
34. Asundi do.	261	24.41	0.79
35. Mávinkop do. ... ..	...	...	...
36. Gokák Canal, 1st Section	1,781	16.16	0.40

The percentages of revenue establishment on assessed revenue from irrigation water-rates were very high on the Hartála, Mhasva and the Kásurdi tanks.

The Executive Engineer for Irrigation, Khándesh, reports that the irrigated area and revenue assessed under the first two works have decreased during the year under report, and endeavour was made to reduce the revenue establishment charge. On the Kásurdi Tank there was no direct irrigation because the dam was washed away. On the Jámnda Canals there was increase in irrigation and assessment and also a slight increase in the charge of establishment for revenue management.

The cost of establishment debited to revenue management of the Mhasvad Tank was less than in 1894-95, but the percentage of revenue establishment on assessed revenue was a little higher on account of decrease in the area irrigated during 1895-96.

The cause which led to a higher percentage on the Ekruk Tank was a decrease in the irrigated area.

The Koregaon Tank had to be placed in charge of a Sub-Engineer, and the share of his pay and travelling allowance debited to the revenue management of the work being higher than that of the Sub-Overseer who had charge of the tank in the previous year, the percentage was high.

The increase in cost in the case of the Rewári and Chikhli canals and the Maini Tank was due to the reappointment of a third measurer during the year. The experiment made during the previous year of reducing the measuring staff did not prove satisfactory, the preparation of assessment papers being delayed. The increase in the case of the Dámbal Tank was due to the subordinate in charge having to visit the work on more occasions than in the previous year for the disposal of the question of perennial irrigation within a quarter mile of the village site.

The high cost on the Gokák Canal was due to the debit of a share of pay of gauge kárkún and pátkaris, &c., to revenue management.

Enquiries made in the Southern Division as to the possibility of diminishing the charges in general have shown that reduction is not feasible except in the case of the Gokák Canal, on which, when the sub-division of land is completed, the revenue staff can, to a certain extent, be decreased.

16. The indirect receipts, as shown in Statements I—C, IV—C and II—E, were Rs. 14,455. If Rs. 3,263 plus Rs. 41,328 on account of supply to the Poona City = Rs. 44,591, Indirect Receipts.

being the difference between the value of water issued from the Mutha Canals at normal rates and the value of water supplied at special reduced rates or gratuitously, be taken credit for in the revenue returns of the work as a book credit and be added to the above amount, the earnings of the year will be Rs. 6,76,802. The Poona Municipality have not yet accepted the terms offered to them with the sanction of the Government of India, in the matter of increased supply of water.

17. The net assessed revenue of the year, after deducting working expenses, including indirect and all other charges, and neglecting the items, amounting to Rs. 44,591, referred to in the preceding paragraph, was Rs. 3,37,924 as compared with Rs. 2,42,811 in 1894-95.

The details of the assessment were as follows :—

	DIRECT REVENUE.			Indirect Revenue.	Total.
	Water Rates.	Other Receipts.	Total.		
	Rs.	Rs.	Rs.		
<i>Major Works.</i>					
Protective Works	99,356	4,142	1,03,498	...	1,03,498
Productive Works	2,59,045	1,39,529	3,98,574	7,571	4,06,145
Total	3,58,401	1,43,671	5,02,072	7,571	5,09,643
Minor Works	83,168	10,566	93,734	6,884	1,00,618
Provincial Minor Works	10,907	11,043	21,950	...	21,950
Grand Total	4,52,476	1,65,280	6,17,756	14,455	6,32,211

18. The water rates in force during the year are shown in Statement I—F., in the remarks column of which the orders sanctioning revision of rates in certain cases are quoted. For the Gokák Canal it has been ordered that the perennial rate shall be raised from Rs. 14 to Rs. 18 in five years; the rate for the year under report was Rs. 16.

19. The average water rates per acre of land actually irrigated were :—

	1894-95.	1895-96.
Protective Works	3.21	3.69
Productive Works	8.17	11.20
Minor Works... ..	4.35	4.07
Provincial Minor Works	2.73	2.47
Average of all taken together	5.10	6.04

20. The water rate assessments and other receipts compare with those of the previous year as under :—

	1894-95.	1895-96.
	Rs.	Rs.
Water-rates	4,29,769	4,52,476
Other Receipts—		
Plantations	4,024	5,916
Water-power	10,920	16,816
Water-supply to towns	98,779	1,11,951
Miscellaneous	36,634	30,597
Share of land revenue	1,50,357	1,65,280
	13,611	14,455
	1,63,968	1,79,735
	5,93,737	6,32,211

The above comparison shows an increase under all heads except Miscellaneous revenue.

The increase under water rates is wholly under Productive Public Works and principally on the Mutha Canals, and due chiefly to the higher rates introduced for perennial crops. There was also increased revenue from the Poona Water-supply to the extent of Rs. 12,459, which accounts for the increase under Water-supply to towns. The total revenue from the Mutha Canals was Rs. 2,98,470, or Rs. 50,515 in excess of the total of the previous year. This is the highest annual revenue obtained since the work came into operation.

Out of the increase of Rs. 1,892 under Plantations Rs. 1,602 was on the Jámda Canals due to a large sale of full grown bábul trees.

Under Water-power the increase is solely on the Gokák Canal.

Under Miscellaneous the decrease of Rs. 6,037 is the result of small differences on many works.

21. The principal crop acreages irrigated during 1894-95 and 1895-96 were as follows:—

Crop acreages.	1894-95.	1895-96.	Increase or Decrease.
	Acres.	Acres.	Acres.
Gardens and orchards	3,009	2,636	—373
Sugarcane	14,624	11,897	—2,727
Wheat	8,833	8,315	—518
Rice	6,187	6,056	—131
Maize	1,924	1,953	+29
Jowári	19,955	18,581	—1,374
Bájri	6,722	6,869	+147
Gram, &c.	5,990	3,720	—2,270
Ground-nuts	9,084	7,874	—1,210
Condiments	3,309	2,722	—587
Fodder	1,117	1,101	—16

The figures for all the above crops show a decrease with the exception of bájri and maize, which show a slight increase.

Of the total decrease under sugarcane, jowári and gram, the Nira and the Mutha Canals are responsible for the following:—

	Sugarcane. Acres.	Jowári. Acres.	Gram. Acres.
Nira Canal	1,241	1,063	768
Mutha Canals	911	1,451	421

the works in the Southern Division showing an increase of 1,383 acres under jowári.

The falling off in the cultivation of sugarcane is reported to be due to abnormally low market rate of gúr during the past two years, as explained in paragraph 3 of the Mutha Canals report, and that in jowári and gram to favourable rainfall.

The decrease in ground-nut was due to the fact that excessive rainfall rendered irrigation unnecessary.

The total estimated value of crops irrigated is shown as Rs. 49,63,224 against Rs. 56,57,235 in the previous year, and Rs. 58,59,742 for the year 1893-94.

22. In Statement I—E the duty of water on each work, as well as the bases on which the duties were calculated, &c., are shown. The results vary very much on different works; but, as observed in previous years, this is to be expected, as the conditions also vary considerably, and in most of the canals it is necessary to maintain a much larger discharge than is necessary for the area under irrigation, owing to the bulk of the land irrigated being usually situated at the tail of the canal, at a distance from the head-works.

Details of the duty obtained on each canal are given in the body of the report and are generally estimated from the daily discharge observations and the known area of the miscellaneous crops under irrigation during the period.

Special experiments to determine the duty of water per acre for certain crops were carried out during the year with the following results:—

	cft.	
Poona District, Nira Canal—Khapla wheat	=	43,461 per acre.
Ground-nut	=	75,268 "
Násik District—Sugarcane ...	=	185,495 "
Do. ...	=	422,155 "
Do. ...	=	187,168 "
Khondia (Rice)	=	63,720 "

The details of experiments for the Násik and Sholápur Districts have been reported separately.

PART II.

WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT, AND AGRICULTURAL WORKS.

23. The following shows a comparison of the figures for the year under report with those for 1894-95:—

	1894-95.	1895-96.	Increase.	Decrease.
	Acres.	Acres.	Acres.	Acres.
Area irrigated ...	143,907	143,805	.....	102
	Rs.	Rs.	Rs.	Rs.
Revenue receipts ...	5,47,425	5,48,730	1,305	.....
Expenditure ...	2,78,906	2,36,878	.....	42,028
Net revenue ...	2,68,519	3,11,852	43,333	.....

The area irrigated shows a decrease of 102 acres. The revenue receipts show an increase of Rs. 1,305 and the expenditure a decrease of Rs. 42,028, the result being an increase under net revenue of Rs. 43,333.

24. The following gives details of expenditure:—

	EXPENDITURE.		COMPARISON.	
	1894-95.	1895-96.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
Extensions and improvements ...	65,948	52,872	.....	13,076
Maintenance and Repairs ...	64,871	50,696	.....	14,175
Establishment ...	93,116	73,092	.....	20,024
Tools and Plant ...	3,147	5,489	2,342	.....
Total ...	2,27,082	1,82,119	.....	44,933
Share of collection charges ...	51,824	54,729	2,905	.....
Total ...	2,78,906	2,36,878	.....	42,028

The decrease except under Extensions and Improvements and Maintenance and Repairs are satisfactory.

I.—A.

Statement of Canals in the Bombay Presidency, excluding Sind.

Source of Supply of Water.	(1) NIRA CANAL.	(5) HATHMA- TI CANAL.	(7) KADVA RIVER WORKS.			(8) LA'KH CANAL.	(11) KRISHNA CANAL.	(12) KHA'RI CUT.	(15) JA'MDA CANALS.	(17) OJHAR CANAL.	(25) REVA'RI CANAL.	(28) CHIKHLI CANAL.	(39) GOKAK CANAL 1ST SECTION AND STORAGE WORKS.	
	River Nira and Reservoir at Bhatghar.	Hathmati River.	KADVA RIVER. KADVA RIVER.	OJHAR TA'MBAT CANAL. BANGANGA RIVER.	WADA'LI CANAL. KADVA RIVER.	Pravara River.	River Krishna and Rainfall.	Khari River.	Girna River.	Pravara River.	River Warna and Rainfall.	River Nandni and Rainfall.	River Ghat- prabha and Storage Works	
Minimum discharge { C. feet per second... per second,	{ K. 1,318 R. 34 H.W. 5	{ K. 38 R. 24 H.W. 41	{ K. 2.12 R. 1.84 H.W. 0.24	{ K. 1.00 R. 0.64 H.W. 0.16	{ K. 5.93 R. 11.06 H.W. 5.85	{ K. In floods. R. 24.36 H.W. 7.27	{ K. 28.66 R. 293.48 H.W. 26.66	{ K. 24 R. 23 H.W. 19	{ April and May 1895 47.25 K. 190.05 R. 107.08 H.W. 47.06 April and May 1896 21.48 Left Right Bank. Bank. K. 51.39 15.33 R. 63.32 14.87 H.W. 61.04 13.85	{ K. In floods R. 27.73 H.W. 24.83	{ K. 7.17 R. 12.37 H.W. 7.17	{ K. 5.60 R. 16.12 H.W. 5.60	{ K. 700 R. 33 H.W. 0	
Maximum discharge { " " ... of canal,	456	191	35.36	7.02	8.10	27.60	88.54	150	45.15	14.45	13.18	{ K. *31 R. *74 H.W. *67		
Average annual rainfall ... ..Inches.	23.45	{ K. 37.77 R. 0.63	29.56	21.24	21.24	24.47	25.76	{ K. 38.00 R. 0.88	24.63	28.54	24.15	{ Dhupdal. 27.02 Gokak... 23.29		
Gross area commanded ... ..Acres.	274,447	41,744	28,832	8,055	3,486	29,913	28,327	17,800	37,123	9,166	23,724	3,872	1,871	18,668
Culturable do."	227,670	28,840	26,280	7,421	2,729	25,536	26,463	12,000	33,124	7,061	21,155	3,624	1,478	17,627
Area irrigable by complete project. "	56,640	11,336	23,466	6,824	2,433	22,760	28,453	11,500	3,500	1,500	20,088	3,624	1,478	17,200
Do. at present"	56,640	8,000	9,837	2,867	2,433	11,280	26,453	3,000	3,500	1,500	14,763	3,624	1,478	17,200
Sanctioned Estimate—														
Direct charges Rs.	57,31,655	5,89,705	2,38,087	14,541	29,771	3,75,189	8,29,067	1,66,857	10,27,238	3,25,902	56,324	53,803	11,72,084	
Indirect charges"	3,69,780	30,000	15,761	833	1,540	20,277	43,216	11,123	61,403	22,305	3,124	3,612	60,929	
Interest during construction"	28,44,872	2,37,687	2,12,554	2,411	32,150	3,65,298	7,83,613	...	.....	.....	.....	.....	1,44,865
Total, Estimate Rs.	89,49,307	8,57,392	4,66,402	17,785	63,461	7,60,764	16,60,896	1,78,680	10,88,640	3,48,211	59,448	57,415	13,77,878	
Expenditure { Direct charges Rs. to end of } Indirect charges" 1895-96 ... } Interest during con- struction"	{ 53,27,570 3,23,910 23,69,962	{ 4,90,925 26,913 4,53,387	{ 2,21,154 15,379 2,09,700	{ 6,739 613 1,769	{ 27,955 2,330 31,857	{ 3,52,446 19,445 3,83,600	{ 8,18,545 46,347 9,13,470	{ 1,69,868 1,980 ...	{ 9,91,058 49,911	{ 3,09,632 20,640	{ 56,771 3,040	{ 53,803 3,639	{ 11,71,928 39,657 2,25,055	
Total, Expenditure Rs.	80,21,442	9,71,225	4,46,233	9,121	62,142	7,55,491	17,78,362	1,81,848	10,40,969	3,30,275	59,811	57,442	14,36,638	
Works as now sanctioned—														
Main Canals, Irrigation Miles.	100.23	21	11	8	8.62	23	35.25	16	39	19	5.66	6.50	14.10	
Branch Canals do. ... .."	.....	.....	.....	.....	.....	.....	26.25	7	.....	.....	5.25	.....	12.0
Distributaries"	132.46	25	21.50	.....	.....	11	.....	7	75	25	.....	.....	527.80
Of above—														
Navigable channels Miles.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Works completed at end of 1895-96—														
Main Canals, Irrigation Miles.	96	21	11	4.50	8.62	23	35.25	16	39	19	5	6.50	14.10	
Branch Canals do. ... .."	.....	.....	.....	.....	.....	.....	28.62	7	.....	.....	5.25	.....	12.0
Distributaries"	132.46	30	14.36	.....	.....	9.37	.....	7	75	21	.....	.....	527.80
Of above—														
Navigable channels Miles.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Including 58 c. ft. discharge for Mills.
 † Area increased from 6,170 acres to 7,200 acres on account of the additional area of 1,070 acres brought under command by the extension of the canal completed during the year.
 ‡ The increase in discharge from 2.62 to 4.10 is due to the extension carried out during 1895-96.
 § Do. from 26.55 to 27.80 do. do. do.

AX

Statement of Reservoir Projects in the

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Source of supply.	Bhātghar Reservoir, Nira Canal.	Mhasvad Tank.	Lower Pānra River Works and Mukti Tank.	Kādvā River Works (Wagbad Tank).	Mutha Reservoir, Lake Fife.	Ekrak Tank.	Hartāla Tank.	Mhasva Tank.	Parsul Tank.	Rhātodi Tank.	Mātoba Tank.	Kāsurdi Tank.								
	Yelvandi River and Ghāt Catchment.	Mān River and Rainfall.	Local Streams.	Kolvan River.	Mutha River and Rainfall.	Adhela River and Rainfall.	Local Streams.	Local Streams.	Parsul River.	Mehekri River.	Nāla, Rainfall and surplus water from Mutha Right Bank Canal.	Kāsurdi Nala and Rainfall.								
If supplied by rainfall. { Area of catchment, Sq. miles... 128		*480	84.2	29	196.00	159	6.80	13.40	17.83	44.0	10.00	6.00								
{ Average annual rainfall ... Inches ... 145		25.03	23.06	53.39	33.24	32.17	25.95	29.85	31.57	20.06	18.14	20.40								
Contents of tanks between levels of surface of full supply and sill of canal head sluice ... Millions of cubic feet. } 5,500		2,633	342.3	606	(1) 2,679.65 (2) 3,323.30	3,310	134.9	158.5	118.70	154	229	14.5								
Area of surface at full supply ... Acres and decimals. } 3,584		4013.80	500.00	778	(3) 3,629.78 (1) 3,399.24	4,640	473	421	151	316.13	477.46	37.92								
Gross area commanded ... Acres. } No irrigation direct from the Reservoir.		129,045	13,117	(e)...	94,087	17,152	584	4,647	3,337	15,126	10,700	597								
Culturable do. ... " } 106,314		106,314	12,627	(e)...	49,800	16,941	527	4,075	3,197	13,657	71,533	478								
Area irrigable by complete project ... " } 106,214		106,214	12,627	(e)...	16,800	15,320	416	1,700	1,000	12,124	3,800	478								
Do, at present ... " } 45,813		45,813	12,627	(e)...	16,800	14,352	415	1,700	1,000	12,124	2,600	476								
Wells supplied by tanks ... No. } 12		12	...	...	23	...	...	...	...	...	...	...	
Sanctioned Estimate—																				
Direct Charges ... Rs. (a).....	20,24,327	4,44,486	4,67,063	62,14,206	12,23,213	48,890	1,29,813	3,15,368	3,51,767	1,93,000	40,812									
Indirect Charges ... " (a).....	1,03,947	22,774	16,835	2,40,697	1,06,687	26,150	10,202	8,243	26,511	17,500	4,778									
Interest during construction ... " (a).....	6,56,222	4,36,451	2,17,233	34,30,296	8,00,650	...	...	...	...	...	...			
Total Estimate ... Rs. (a).....	27,84,496	9,03,711	7,01,130	98,85,199	21,35,586	75,040	1,40,015	2,23,612	3,78,278	2,10,500	45,590									
Expenditure to end of 1895-96.																				
Direct Charges ... Rs. (a).....	19,84,722	4,41,561	4,37,995	63,53,239	12,28,117	47,948	1,28,781	2,09,467	3,52,680	1,86,148	40,812									
Indirect Charges ... " (a).....	87,784	22,908	11,696	2,34,868	1,12,209	25,434	10,175	6,787	27,022	13,274	4,778									
Interest during construction ... " (a).....	10,48,285	4,36,451	2,14,518	53,96,207	12,73,514	...	...	...	...	...	...			
Total Expenditure ... Rs. (a).....	31,20,791	9,00,920	6,64,209	1,19,84,334	26,13,900	73,382	1,39,956	2,16,754	3,79,707	2,01,422	45,590									
Works as now sanctioned -																				
Dam (earth or masonry) ... Masonry ... Earth. ... Earth. ... Earth. ... Masonry. ... Earth. ... Earth. ... Earth. ... Earth. ... Masonry ... Earth. ... Earth.																				
Total Height ... Feet. (b) 127 (c) 10:	79.79	65	95	97.84	76	51.50	44	62.27	50	48.41	33.45									
Canals ... Miles. } (A) 60.25			(S)...	68	48	...	...	...	4.50	...	...							
Distributaries ... " } 34		45	(S)...	70	...	5.5	7	6.75	5.50	17	1.75									
Works completed at end of 1896-96—																				
Dam (height) completed ... Feet. (d).....	79.79	65	93	97.84	76	51.50	44	62.27	50	48.41	33.45									
Canals ... Miles. } (A) 60.25			(S)...	68	48	...	...	...	4.50	...	...							
Distributaries ... " } 34		45	(S)...	67	...	5.5	7	6.75	5.50	17	1.75									

(1) 24.7 is the reduced level
(2) 24.7 is the height to which

A.

Bombay Presidency, excluding Sind.

(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	REMARKS.
Shirsahpal Tank.	Bhidalvadi Tank.	Koregaon Tank.	Ashti Tank.	Upper Man River Works (Pingli Tank).	Yerla River Irrigation Works (Nehr Tank).	Maini Tank.	Muchkundi Tank.	Gadikori Tank.	Damba Tank.	Medleri Tank.	Madag Tank.	Asondi Tank.	Mavin-kop Tank.	Gokak Canal, 1st Section, and Storage Works.				
Minor Tributary of the Bhima River and Rainfall.	Minor Tributary of the Bhima River and Rainfall.	Nala and Rainfall.	Ashti Nala and Rainfall.	Man River and Rainfall.	Yerla River and Rainfall.	Wanga Nala and Rainfall.	Muchkundi Nala and Rainfall.	Rainfall.	Rainfall.	Medleri Nala and Rainfall.	Kumud-wati River and Rainfall.	Rainfall.	Rainfall.	Ghatprabha River.				
23-00	23-00	4-4	92	30-00	59-5	54-00	20	68	43	11	540	23	6-25	1,080	* Exclusive of 29 square miles for Gondoli Tank.			
20-60	22-53	34-54	29-29	19-58	27-90	22-32	23-19	28-36	19-61	21-23	29-12	23-12	39-01	55-00				
365	222	81	1,419	195-24	430-77	188-59	680	27-5	113-68-4	57-600	54-630	105-500	45-75	701-597				
833-70	335-18	202	2,877	349-4	670-9	380-4	1,050	129	442	169	363	415	170-5	2,273-45				
4,500	3,000	Not Known.	17,882	8,413	11,234	4,376	5,570	687	4,595	1,916	2,351	1,800	872	(a).....	(c) Information supplied in Statement I-A, the tank being only a feeder.			
2,500	2,400		16,835	7,623	10,630	4,625	5,417	Not known.	4,525	1,052	2,452	1,800	755	(a).....				
2,500	2,400		14,476	7,623	10,680	4,625	3,417	450	4,595	1,916	2,188	1,800	755	(a).....				
2,500	2,400		14,476	7,623	10,680	4,625	3,417	337	4,525	1,052	2,188	1,800	617	(a).....				
...	25	18	13	Nil	None.	Un-certain.	Nil	Nil.	Nil	Nil.	None.			
2,09,460	2,14,382	40,731	7,54,250	4,16,341	6,50,041	3,63,000	1,48,200	8,988	61,162	78,237	2,32,283	67,731	27,889	(a).....				
12,322	14,342	1,318	80,677	28,180	47,200	22,492	20,220	350	3,744	3,468	17,144	12,754	3,928	(a).....				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	(a).....				
2,22,252	2,28,724	42,040	8,34,927	4,44,531	7,27,301	3,90,492	1,63,420	9,238	64,906	81,705	2,49,407	80,485	31,817	(a).....				
2,12,199	2,13,115	37,923	7,52,189	4,07,541	6,51,081	3,67,671	1,40,217	8,915	60,847	78,354	1,61,248	60,741	27,612	(a).....	(a) Figures given in Statement I-A.			
12,300	14,307	1,266	78,914	22,910	43,327	22,763	18,400	364	3,133	3,038	6,350	14,254	3,235	(a).....				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	(a).....				
2,24,568	2,27,422	39,189	8,31,107	4,30,451	6,94,411	3,90,434	1,58,707	9,279	63,980	81,392	1,67,598	74,905	30,347	(a).....				
Earth.	Earth.	2 dams 1 masonry	Earth.	Earth.	Earth.	Earth.	Masonry	Earth.	Earth.	Earth.	Earth.	Earth.	Earth.	Masonry weir.				
54-32	55-09	71 and 16	57-75	53-50	74	57-33	60	20	42-25	41	100	33-96	30-53	25' high, Maximum above foundation 28' earthwork	(b) Above lowest foundation. (c) Above lowest point in river bed.			
...	...	3-75	(d) 27-5	17-50	28-60	9-25	5-5	Nil	...	...	9	...	...	16-10†	† Canal ... 4' 10 Branch ... 12' 0 16' 10			
12-5	9-75	...	2	6-50	4	7-58	3-2	Irrigator's Channel	3-27	5-64	...	4-88	Irrigator's Channel.	(a).....	(d) The main dam completed to full height, and weir brought up to correct level.			
14-32	55-09	71 and 10	57-75	53-50	74	57-33	60	20	42-25	41	100	33-95	30-53	25	(f) The tank supplies the Fakhed, Ujhar, Tamlat and Wadli canals as noted in Statement I-A. (h) Includes 3 1/2 miles of Branch Canals.			
...	...	3-75	(d) 27-50	17-50	28-60	9-25	5-5	Nil.	...	...	9	...	...	16-10†	(i) Includes 6 miles of Branch Canals.			
12-5	9-75	...	2	6-50	4	7-58	2-2	Irrigator's Channel	3-27	5-64	...	4-88	Irrigator's Channel	(a).....				

of the finished crest of weir.
water is annually impounded at end of monsoon by fixing standards and boards on waste weir crest.
B 1259—e

Capital Account of Irrigation Works in Deccan and

Name of Work.	DURING YEAR.									
	Direct Charges.					Indirect Charges.				Grand Total.
	Works.	Establishment.	Tools and Plant.	Total.	Deduct Receipts on Capital Account.	Total.	Capitalization.	Leave and Pension Allowances.	Total.	
1	2	3	4	5	6	7	8	9	10	11
IMPERIAL.										
MAJOR WORKS.										
PROTECTIVE WORKS.										
<i>In operation.</i>										
1. Nira Canal	23,121	5,079	-2,262	25,938	...	25,938	27,854	711	29,565	55,503
2. Mhasvad Tank	-274	-57	-7	-338	...	-338	26,967	-8	26,959	26,621
Total	22,847	5,022	-2,269	25,600	...	25,600	55,821	703	56,524	82,124
<i>In abeyance.</i>										
3. Chankapur Tank	1,267	29	-92	1,204	156	1,048	...	4	4	1,052
4. Maladevi do. ... ..	...	...	...	...	...	...	...	...	...	...
Total	1,267	29	-92	1,204	156	1,048	...	4	4	1,052
Total, Protective Works	24,114	5,051	-2,361	26,804	156	26,648	55,821	707	56,528	83,176
PRODUCTIVE WORKS.										
<i>In operation.</i>										
5. Hathmati Canal ... ..	...	...	...	...	...	...	-557	...	-557	-557
6. Lower Panjhra River Works	2,040	469	...	2,509	...	2,509	30	60	96	2,605
7. Kadva River Works	56	26	...	82	...	82	1,358	4	1,362	1,444
8. Pravara River Works—Lakh Canal ... ..	...	...	...	...	...	...	...	...	...	...
9. Mutha Canals	25,917	5,290	-309	30,898	...	30,898	...	741	741	31,639
10. Ekrak Tank ... ..	...	...	...	...	...	...	...	...	...	...
11. Krishna Canal ... ..	...	...	...	...	...	...	...	...	...	...
Total, Productive Works	28,013	5,785	-309	33,489	...	33,489	831	811	1,642	35,131
Total, Major Works	52,127	10,836	-2,670	60,293	156	60,137	56,652	1,518	58,170	1,18,307
MINOR WORKS AND NAVIGATION.										
<i>In operation.</i>										
12. Khari Cut ... ..	...	...	...	...	...	...	...	...	...	...
13. Hartia Tank ... ..	...	...	...	...	...	...	...	...	...	...
14. Mhasva do. ... ..	...	...	...	...	...	...	...	...	...	...
15. Janda Canal	334	78	100	512	...	512	...	11	11	523
16. Parsul Tank	267	61	-2,722	-2,394	...	-2,394	-279	9	-270	-2,664
17. Pravara River Works—Ojhar Canal ... ..	...	...	...	...	...	...	26	...	26	26
18. Bhatodi Tank ... ..	...	...	...	...	...	...	...	...	...	...
19. Matoba do. ... ..	...	...	...	...	...	...	...	...	...	...
20. Kasardi do. ... ..	...	...	...	...	...	...	...	...	...	...
21. Shirsuphal do.	769	...	...	769	...	769	96	...	96	865
22. Bhadalvadi do.	8	...	...	8	...	8	...	...	...	8
23. Koregaon do. ... ..	...	...	...	...	...	...	...	...	...	...
24. Ashti do. ... ..	...	...	...	...	...	...	...	...	...	...
25. Revari Canal	189	...	...	189	...	189	193	...	193	382
26. Upper Man River Works	120	...	...	120	...	120	769	...	769	889
27. Yera River Irrigation Works	6,360	1,462	60	7,882	...	7,882	79	205	284	8,166
28. Chikhli Canal ... ..	...	...	...	...	...	...	...	...	...	...
29. Maini Tank ... ..	...	...	...	...	...	...	524	...	524	624
30. Muchkundi Tank ... ..	...	...	...	...	...	...	...	...	...	...
31. Nilgund do. ... ..	...	...	...	...	...	...	...	...	...	...
32. Gadikeri do. ... ..	...	...	...	...	...	...	...	...	...	...
33. Dambal do. ... ..	...	...	...	...	...	...	...	...	...	...
34. Medleri do. ... ..	...	...	...	...	...	...	...	...	...	...
35. Madag do. ... ..	...	...	...	...	...	...	...	...	...	...
36. Asundi do. ... ..	...	...	...	...	...	...	...	...	...	...
37. Mavinkop do. ... ..	...	...	...	...	...	...	...	...	...	...
Total	8,047	1,601	-2,562	7,086	...	7,086	1,408	225	1,633	8,719
<i>In abeyance.</i>										
38. Gokak Canal, 2nd Section ... ..	...	...	...	...	...	...	...	...	...	...
Total, Minor Works and Navigation	8,047	1,601	-2,562	7,086	...	7,086	1,408	225	1,633	8,719
PROVINCIAL.										
MINOR WORKS AND NAVIGATION.										
<i>In operation.</i>										
39. Gokak Canal, 1st Section, and storage Works... ..	14,033	2,127	240	16,400	...	16,400	...	298	298	16,707
GRAND TOTAL	74,207	14,564	-4,933	83,788	156	83,632	58,060	2,041	60,101	1,40,733

* Including expenditure charged to 1925 Construction

B.
Gujarat for and to end of 1895-96.

TO END OF YEAR.

Direct Charges.						Indirect Charges.			Grand Total.
Works.	Establishment.	Tools and Plant.	Total.	Deduct Receipts on Capital Account.	Total.	Capitalization.	Leave and Pension Allowances.	Total.	
12	13	14	15	16	17	18	19	20	21
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
41,85,835	10,21,068	1,27,776	53,35,579	8,009	53,27,570	1,63,563	1,60,347	3,23,910	56,51,480
15,81,471	3,41,931	62,793	19,86,195	1,473	19,84,722	34,784	53,000	87,784	20,72,506
57,67,306	13,63,899	1,90,569	73,21,774	9,482	73,12,292	1,93,347	2,13,347	4,11,694	77,23,986
40,194	18,042	7,163	65,404	337	65,067	21	3,167	3,188	63,255
20,967	11,600	1,456	34,023	68	33,955	.....	2,161	2,161	36,116
61,161	20,642	8,624	99,427	405	99,022	21	5,328	5,349	1,04,371
53,28,467	13,93,541	1,90,193	74,21,201	9,887	74,11,314	1,93,368	2,18,675	4,17,043	78,28,357
3,83,636	90,517	9,060	4,92,213	11,238	4,90,925	7,083	19,830	26,913	5,17,838
3,64,189	74,182	3,228	4,41,598	37	4,41,561	8,462	14,446	22,908	4,64,469
5,33,036	1,33,937	16,960	6,93,933	140	6,93,843	5,674	24,343	30,017	7,23,860
2,64,529	68,611	19,477	3,52,647	201	3,52,446	5,824	13,621	19,445	3,71,891
52,73,893	9,75,137	1,16,445	63,65,465	12,226	63,53,239	52,502	1,82,386	2,34,888	65,88,127
10,07,089	2,12,509	9,713	12,29,311	1,194	12,28,117	69,948	42,321	1,12,269	13,40,386
6,74,654	1,42,209	1,682	8,18,545	...	8,18,545	18,616	27,831	46,347	8,64,892
85,06,015	17,11,182	1,76,565	1,03,93,762	15,086	1,03,78,676	1,68,009	3,24,778	4,92,787	1,08,71,463
1,13,34,482	31,04,723	3,75,758	1,73,14,963	24,973	1,77,89,990	3,66,377	5,43,453	9,09,830	1,86,99,520
1,35,618	32,298	2,133	1,70,049	181	1,69,868	6,350	5,630	11,980	1,81,848
33,437	11,936	2,579	47,952	4	47,948	23,052	2,382	25,434	73,382
1,01,259	26,399	1,129	1,28,787	6	1,28,781	5,026	5,149	10,175	1,38,956
7,86,213	1,91,837	13,029	9,91,079	21	9,91,058	12,015	37,896	49,911	10,40,969
1,61,660	42,633	6,845	2,10,938	71	2,09,967	799	5,988	6,787	2,16,754
2,30,067	75,184	4,528	3,09,779	144	3,09,635	5,832	14,808	20,640	3,30,275
2,73,838	70,183	9,354	3,53,375	690	3,52,685	13,023	13,099	27,022	3,79,707
1,49,237	35,982	2,937	1,88,156	8	1,88,148	6,274	7,000	13,274	2,01,422
31,433	8,405	884	40,812	...	40,812	3,079	1,699	4,778	45,590
1,71,148	38,190	2,861	2,12,199	...	2,12,199	5,137	7,232	12,369	2,24,568
1,57,091	53,493	2,621	2,13,115	...	2,13,115	4,067	10,240	14,307	2,27,422
30,044	7,661	218	37,923	...	37,923	.....	1,266	1,266	39,189
6,05,284	1,44,175	8,122	7,57,581	5,392	7,52,189	52,311	26,603	78,914	8,31,103
47,067	9,693	21	56,771	...	56,771	1,259	1,731	3,040	59,811
3,07,544	93,456	6,732	4,07,732	241	4,07,541	5,556	17,354	22,910	4,30,451
5,33,842	1,11,522	8,025	6,53,449	2,365	6,51,084	22,447	20,880	43,327	6,94,411
39,984	13,611	208	53,803	...	53,803	917	2,722	3,639	57,442
2,66,543	98,383	3,315	3,68,211	540	3,67,671	3,598	19,165	22,763	3,90,434
1,11,830	26,360	2,294	1,40,484	267	1,40,217	14,386	4,104	18,490	1,58,707
6,938	1,700	130	8,768	...	8,768	.....	259	259	9,027
7,020	1,755	140	8,915	...	8,915	13	351	364	9,279
49,262	10,769	878	60,909	62	60,847	1,034	2,099	3,133	63,980
61,881	15,324	1,155	78,360	6	78,354	243	2,705	3,038	81,392
1,26,506	31,841	2,825	1,61,262	14	1,61,248	.....	6,350	6,350	1,67,598
48,805	10,881	1,055	60,741	...	60,741	12,536	1,718	14,254	74,995
21,665	5,762	323	27,750	138	27,612	2,083	1,152	3,235	30,847
44,95,106	11,60,533	83,391	57,48,050	10,150	57,37,900	2,01,037	2,20,622	4,21,659	61,59,559
92,036	70,024	14,246	1,76,306	...	1,76,306	740	13,238	13,978	1,90,284
43,87,142	12,39,577	97,637	59,24,356	10,150	59,14,206	2,01,777	2,33,860	4,35,637	63,49,843
9,79,664	1,71,453	21,065	11,72,184	258	11,71,926	14,114	25,543	39,657	*12,11,583
1,99,01,288	45,15,755	4,94,469	2,49,11,503	35,381	2,48,76,122	5,82,268	8,02,856	13,85,124	2,62,61,946

of Protective Irrigation Works.

A. L. WRIGHT,
For Examiner, P. W. Accounts.

Statement showing the Financial Results of Irrigation Works in

Realizations under Main Heads of

Name of Work.	REVENUE (ACTUAL RECEIPTS).										Revenue	
	Irrigation.			Navigation.	Planta- tions.	Water- power.	Miscella- neous.	Total.	Refunds of Revenue.	Gross Revenue less Refunds.	Estab-	
	Water rates directly paid.	Share of Land Revenue.	Total.								Direction.	Executive.
	1	2	3	4	5	6	7	8	9	10	11	12	13
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
MAJOR WORKS.												
<i>Protective Works.</i>												
1. Nira Canal	85,368	...	85,368	...	...	...	1,516	86,884	...	86,884	1,409	17,791
2. Mhasvad Tank	13,168	...	13,168	...	1	...	2,625	15,794	...	15,794	487	2,651
Total	98,536	...	98,536	...	1	...	4,141	1,02,678	...	1,02,678	1,896	20,442
<i>Productive Works.</i>												
5. Hathmati Canal	10,221	...	10,221	...	314	...	985	11,520	...	11,520	60	383
6. Lower Panjhra River Works	10,776	6,788	17,564	...	301	...	544	18,409	...	18,409	208	2,094
7. Kadva River Works	9,087	594	9,681	...	22	...	147	9,850	...	9,850	295	2,541
8. Pravara River Works— Lakh Canal	1,034	147	1,181	...	173	...	1,465	2,819	...	2,819	213	6,082
9. Mutha Canals	1,57,044	42	1,57,086	...	2	6,000	1,14,000	2,77,088	641	2,76,447	2,065	22,685
10. Ekrak Tank... ..	13,023	...	13,023	...	282	...	13,116	26,421	...	26,421	463	2,260
11. Krishna Canal	29,313	...	29,313	...	...	...	1,290	30,603	...	30,603	151	1,199
Total	2,30,498	7,571	2,38,069	...	1,094	6,000	1,31,547	3,76,710	641	3,76,069	3,445	37,244
Total, Major Works	3,29,034	7,571	3,36,605	...	1,095	6,000	1,35,688	4,79,388	641	4,78,747	5,341	57,686
MINOR WORKS AND NAVIGATION.												
12. Khari Cut	11,065	...	11,065	...	59	...	268	11,386	...	11,386	62	437
13. Hartala Tank	186	...	186	...	560	...	423	1,159	...	1,159	8	207
14. Mhasva do.	380	...	380	...	1	...	326	707	...	707	31	423
15. Jamba Canals	7,270	...	7,270	...	3,920	...	435	11,625	...	11,625	285	3,871
16. Parsul Tank	1,125	...	1,125	...	...	...	25	1,150	...	1,150	27	430
17. Pravara River Works— Ojhar Canal	4,894	76	4,970	...	26	...	469	5,465	12	5,453	274	8,150
18. Bhatodi Tank	4,300	1,351	5,651	...	...	...	509	6,160	140	6,014	176	5,075
19. Matoba do.	9,100	...	9,100	...	...	...	116	9,216	...	9,216	79	874
20. Kasurdi do. ... ..	...	...	...	...	...	...	46	46	...	46	126	1,037
21. Shirsuphal do.	336	...	336	...	...	...	173	509	...	509	80	815
22. Bhadalvadi do.	1,689	...	1,689	...	...	...	7	1,696	...	1,696	59	635
23. Koregaon do.	944	...	944	...	...	...	40	984	...	984	25	222
24. Ashti do.	3,753	...	3,753	...	28	...	536	4,317	...	4,317	112	496
25. Revári Canal	4,902	...	4,902	...	...	...	114	5,016	...	5,016	36	236
26. Upper Man River Works ...	6,324	...	6,324	...	...	...	86	6,410	...	6,410	67	498
27. Yerla River Irrigation Works	11,165	...	11,165	...	...	...	1,382	12,547	...	12,547	90	767
28. Chikhli Canal	2,309	...	2,309	...	...	...	44	2,353	...	2,353	14	123
29. Maini Tank... ..	6,311	...	6,311	...	...	...	85	6,396	...	6,396	54	767
30. Muchkundi Tank	74	...	74	...	77	...	376	527	...	527	...	...
31. Nigund do. ... ..	...	...	...	...	...	...	...	...	...	...	...	...
32. Gadikeri do. ... ..	...	1,987	1,987	...	...	...	...	1,987	...	1,987	...	...
33. Dambal do.	376	981	1,357	...	79	...	323	1,759	...	1,759	12	605
34. Medleri do.	570	...	570	...	...	...	...	570	...	570	12	466
35. Madag do.	2,047	...	2,047	...	15	...	85	2,147	...	2,147	24	711
36. Asundi do.	603	632	1,235	...	...	...	...	1,235	...	1,235	11	451
37. Mavinkop do. ... ..	...	1,857	1,857	...	...	...	6	1,863	...	1,863	...	...
Total, Minor Works and Navigation	79,723	6,884	86,607	...	4,749	...	5,874	97,230	168	97,072	1,669	27,156
PROVINCIAL.												
<i>Minor Works and Navigation.</i>												
39. Gokak Canal, First Section and Storage Works	11,950	...	11,950	...	72	10,816	155	23,023	3	23,020	89	1,594
GRAND TOTAL	4,20,737	14,455	4,35,192	...	5,916	16,816	1,41,717	5,90,641	802	5,98,839	7,098	86,466

Notes.—(1) The irrigation share of land revenue assessments relates to the Revenue year 1995-96.

(2) The division of Establishment charges between "Revenue Management" and "Maintenance and Repairs" is made in accordance

C.

Deccan and Gujarat for the year ending 31st March 1896.

Revenue and Working Expenses.

WORKING EXPENSES.															
Management.			Maintenance and Repairs.										Indirect Charges.	Grand Total Working Expenses.	Net Revenue.
Establishment.		Total Revenue Management.	Establishment.				Works.	Repairs.	Sundries.	Tools and Plant.	Plantations.	Total cost of Maintenance.			
Navigation.	Civil Officers.		Direction.	Executive.	Medical.	Total.									
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...	4,269	23,469	341	4,324	267	4,932	6	17,879	...	538	776	24,131	3,378	50,978	35,906
...	666	3,804	344	1,871	...	2,215	2,273	6,425	...	88	268	11,269	749	15,822	-28
...	4,935	27,273	685	6,195	267	7,147	2,279	24,304	...	626	1,014	35,400	4,127	66,800	35,878
...	511	954	118	771	...	889	...	3,257	111	67	298	4,622	186	5,762	5,758
...	1,530	3,832	65	663	...	728	115	2,537	...	100	262	3,742	424	7,998	10,411
...	457	3,293	114	976	...	1,090	...	4,072	...	149	287	5,598	550	9,441	409
...	68	6,363	21	601	...	622	...	2,423	...	94	67	3,206	968	10,537	-7,718
...	7,834	32,574	584	6,448	...	7,032	420	28,633	...	4,325	167	40,567	4,448	77,589	1,93,858
...	652	3,37	384	1,874	...	2,258	3,041	5,085	...	97	908	11,389	697	15,461	10,960
...	1,506	2,856	189	1,511	...	1,700	916	5,504	162	68	464	8,804	427	12,037	18,516
...	12,558	53,247	1,475	12,844	...	14,319	4,492	51,511	233	4,900	2,443	77,928	7,700	1,38,875	2,37,194
...	17,493	80,520	2,160	19,039	267	21,466	6,771	75,815	263	5,526	3,487	1,13,328	11,827	2,05,675	2,73,072
...	553	1,052	98	701	...	799	...	3,189	...	44	33	4,065	182	5,299	6,087
...	80	245	1	22	...	23	22	70	...	...	1	116	33	394	765
...	19	473	7	94	...	101	...	201	...	50	203	555	93	1,121	-414
...	363	4,519	64	866	...	930	...	3,721	...	200	...	4,851	712	10,082	1,543
...	56	523	5	81	...	86	...	301	...	50	43	480	77	1,080	70
...	253	8,677	26	773	...	799	...	3,106	...	255	90	4,250	1,291	14,218	-8,765
...	344	5,594	17	494	...	511	...	1,938	...	...	105	2,554	807	8,955	-2,941
...	455	1,403	23	249	...	272	...	1,088	...	75	...	1,435	171	3,014	6,202
...	...	1,163	50	420	...	470	...	1,879	...	25	...	2,374	229	3,766	-3,720
...	17	918	29	277	...	306	...	1,224	...	75	...	1,605	169	2,692	-2,183
...	84	778	17	186	...	203	...	811	...	50	...	1,064	126	1,968	-272
...	47	294	9	82	...	91	...	365	...	18	...	474	47	815	169
...	148	756	109	481	...	590	...	2,124	...	41	236	2,994	168	3,918	399
...	244	516	74	478	...	552	752	1,380	...	72	77	2,833	115	3,464	1,552
...	315	880	95	713	...	808	136	2,945	...	79	153	4,121	192	5,193	1,217
...	558	1,415	98	840	...	938	...	3,391	...	62	361	4,752	251	6,418	6,129
...	115	252	13	121	...	134	...	499	...	5	39	677	38	967	1,386
...	316	1,127	26	371	...	397	...	1,399	...	37	191	2,024	169	3,320	3,076
...	4	4	10	42	...	52	17	209	...	3	...	281	7	292	235
...	...	...	1	4	...	5	...	21	...	...	...	26	1	27	-27
...	199	199	...	...	...	...	...	...	...	...	...	...	...	199	1,788
...	133	650	2	66	...	68	77	195	...	...	...	340	108	1,098	661
...	28	496	2	68	...	70	...	279	...	...	...	349	75	920	-350
...	102	837	4	136	...	140	...	426	...	...	135	701	122	1,660	487
...	93	555	2	65	...	67	...	268	...	...	...	335	74	964	271
...	186	186	...	...	...	...	...	...	...	...	...	...	...	186	1,677
...	4,662	33,517	782	7,630	...	8,412	1,004	31,029	...	1,144	1,667	43,256	5,257	82,030	15,042
...	1,140	2,922	35	631	...	666	...	2,294	...	299	172	3,431	329	6,582	16,433
...	23,295	1,16,859	2,977	27,300	267	30,544	7,775	1,09,133	263	6,969	15,326	1,60,015	17,413	2,94,287	3,04,552

with the orders contained in Government of India No. 93 A.I., dated 19th August 1884.

A. L. WRIGHT,
For Examiner, Public Works Accounts.

II—C.

Statement showing the Financial Results of the Irrigation Works in Deccan and Gujarat for the year 1895-96 based on actual receipts.

Principal Results of operations for the year ended 31st March 1896.

Irrigation Works.	Direct and Indirect Capital outlay to end of 1895-96.	Gross Receipts, Direct and Indirect, from all sources.	Working Expenses, Direct and Indirect.	Net Revenue (excluding charges for interest.)	Percentage of net Revenue on Capital outlay to end of the year.	Interest at 4 per cent. on direct Capital outlay at commencement of year and at 2 per cent. on outlay during year.	SURPLUS REVENUE AFTER PAYING INTEREST ON DIRECT CAPITAL OUTLAY.		EXCESS CHARGES, INCLUDING INTEREST ON DIRECT CAPITAL OUTLAY.	
							Amount.	Percentage on total sum at charge.	Amount.	Percentage on total sum at charge.
1	2	3	4	5	6	7	8	9	10	11
IMPERIAL MAJOR WORKS.										
PROTECTIVE WORKS.										
<i>In operation.</i>										
1 Nira Canal	56,51,480	86,884	50,978	35,906	64	2,12,584	..	..	1,70,678	3.27
2 Mhasvad Tank	20,72,506	15,794	15,822	—28	.00	79,306	..	..	79,334	3.80
Total	77,23,986	1,02,678	66,800	35,878	46	2,91,890	..	..	2,50,102	3.36
<i>In abeyance.</i>										
3 Chankapur Tank	68,255	..	..	..	.00	2,882	..	..	2,882	3.63
4 Maladevi do.	36,116	..	..	..	.00	1,358	..	..	1,358	3.71
Total	1,04,371	..	..	..	.00	3,940	..	..	3,940	2.69
Total Protective Works	78,28,357	1,02,678	66,800	35,878	46	2,95,920	..	..	2,60,042	2.87
PRODUCTIVE WORKS.										
<i>In operation.</i>										
6 Hathmati Canal	5,17,838	11,520	5,762	5,758	1.11	19,697	..	..	18,879	1.37
6 Lower Panjra River Works	4,64,469	16,409	7,998	10,411	2.24	17,612	..	..	7,201	.96
7 Kadva River Works	7,23,800	9,850	9,441	409	.06	27,752	..	..	27,343	2.39
8 Pravara River Works—Lakh Canal	3,71,591	2,819	10,537	—7,718	2.08	14,098	..	..	21,810	2.60
9 Mutha Canals	65,88,127	2,76,447	77,589	1,98,858	3.02	2,63,512	..	..	64,664	.65
10 Ekruk Tank	13,40,386	26,421	15,431	10,990	.82	49,125	..	..	83,165	1.42
11 Krishna Canal	8,64,892	30,603	12,087	18,516	2.14	52,742	..	..	14,226	.90
Total Productive Works	1,08,71,463	3,76,069	1,38,875	2,37,194	2.18	4,14,478	..	..	1,77,284	.99
Total Major Works	1,86,00,820	4,78,747	2,05,675	2,73,072	1.46	7,10,398	..	..	4,87,326	1.62
MINOR WORKS AND NAVIGATION.										
<i>In operation.</i>										
12 Khari Cut	1,81,848	11,386	5,299	6,087	3.33	6,795	..	..	708	.29
13 Hartala Tank	73,382	1,159	394	765	1.04	1,918	..	..	1,153	1.11
14 Mhasva do.	1,38,956	707	1,121	—414	.30	6,161	..	..	6,665	2.80
15 Jamba Canals	10,40,969	11,825	10,082	1,643	.16	39,632	..	..	38,989	1.67
16 Parsul Tank	2,16,754	1,150	1,080	70	.03	8,447	..	..	8,377	2.43
17 Pravara River Works—Ojhar Canal	2,30,275	5,453	14,218	—8,765	2.65	12,385	..	..	21,150	3.42
18 Bhatodi Tank	6,014	6,014	8,955	—2,941	.77	14,107	..	..	17,048	2.40
19 Mastoba do.	2,01,422	9,216	3,014	6,202	3.08	7,525	..	..	1,324	.60
20 Kasurdi do.	45,590	46	3,706	—3,720	8.18	1,033	..	..	6,353	5.43
21 Shirsuphal Tank	2,24,668	609	2,692	—2,183	.97	8,473	..	..	10,056	2.95
22 Bhadavadi do.	2,27,422	1,086	1,998	—272	.12	8,524	..	..	8,796	2.49
23 Koregaon do.	39,192	984	815	169	.43	1,517	..	..	1,348	2.05
24 Ashti do.	2,31,193	4,317	3,918	399	.05	30,088	..	..	29,689	2.24
25 Revári Canal	59,811	5,016	3,464	1,552	2.69	2,297	..	..	716	.99
26 Upper Man River Works	4,30,451	6,410	5,193	1,217	.28	16,299	..	..	15,082	2.98
27 Verla River Irrigation Works	6,94,411	12,547	6,418	6,129	.88	25,866	..	..	19,757	1.98
28 Chikhli Canal	67,442	2,353	987	1,366	2.41	2,152	..	..	796	.95
29 Maini Tank	3,90,434	6,396	3,320	3,076	.79	14,707	..	..	11,631	1.65
30 Muchkundi Tank	1,58,707	627	2.2	235	.15	5,909	..	..	6,374	2.31
31 Nilgund do.	9,027	..	27	—27	.30	851	..	..	878	2.79
32 Gadkeri do.	9,279	1,987	1,09	1,788	19.27	857	1,431	..	..	..
33 Dambal do.	63,080	1,759	1,988	691	1.03	2,434	..	..	1,773	1.46
34 Medleri do.	61,392	670	920	—350	.43	3,134	..	..	3,484	2.92
35 Madag do.	1,07,699	2,147	1,600	467	.29	6,450	..	..	6,908	1.67
36 Asundi do.	74,995	1,235	984	271	.34	2,430	..	..	2,169	2.08
37 Mavinkop do.	30,847	1,803	195	1,677	5.44	1,104	673	1.47	..	..
Total	61,59,569	97,072	22,030	15,042	24	2,20,376	..	..	2,14,334	3.00
<i>In abeyance.</i>										
38 Gokak Canal—Second Section	1,90,234	..	..	..	..	7,052	..	..	7,052	2.25
Total Minor Works and Navigation	63,49,843	97,072	22,030	15,042	24	2,30,428	..	..	2,21,386	2.00
PROVINCIAL.										
MINOR WORKS AND NAVIGATION.										
<i>In operation.</i>										
39 Gokak Canal—First Section and Storage Works	12,11,583	23,020	6,562	16,435	1.36	46,549	..	..	30,111	2.04
GRAND TOTAL	2,02,61,246	6,98,839	2,04,267	3,04,652	1.16	9,93,875	..	..	6,88,828	1.47

* The sum at charge being minus, no percentage can be calculated.

A. L. WRIGHT,
For Examiner, Public Works Accounts.

III.—C.

Demands and Realizations during the year 1895-96 in Deccan and Gujardt.

Irrigation Works.	Balance of demands unrealized at commencement of year.	DEMANDS OF THE YEAR.				Total including balance at commencement of year.	Deduct—Remissions not including Cash Refunds.	Net Total.	Deduct—Amount unrealized at close of year.	Actual realizations of the year.
		Rabi, 1894-95.	Kharif, 1895-96.	Miscellaneous Receipts.	Total.					
1	2	3	4	5	6	7	8	9	10	11
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.										
MAJOR WORKS.										
<i>Protective Works.</i>										
1. Nira Canal	25	36,306	51,888	1,516	89,710	89,735	...	89,735	2,851	86,884
2. Mhasvad Tank	508	7,567	6,637	2,626	16,830	17,338	...	17,338	1,544	15,794
Total ...	533	43,873	58,525	4,142	1,06,540	1,07,073	...	1,07,073	4,395	1,02,678
<i>Productive Works.</i>										
5. Hathmati Canal	1,113	4,900	5,046	1,299	11,245	12,358	...	12,358	838	11,520
6. Lower Pánjhra River Works.	...	(b) 3,491	7,342	845	11,678	(a) 11,678	...	11,678	57	11,621
7. Kádva River Works	1,454	5,235	3,960	163	9,353	(a) 10,812	...	10,812	1,556	9,256
8. Pravara River Works—										
Lakh Canal	23	344	675	1,639	2,658	(a) 2,681	2	2,679	7	2,672
9. Mutha Canals... ..	22,359	6,092	1,72,694	1,20,787	2,99,573	(a) 3,21,932	17	3,21,915	44,869	2,77,046
10. Ekruk Tank	853	3,551	9,585	13,285	26,421	27,274	...	27,274	853	26,421
11. Krishna Canal	660	7,420	31,402	1,511	40,333	40,993	...	40,993	10,390	30,603
Total ...	26,463	31,033	2,30,704	1,39,529	4,01,266	4,27,728	19	4,27,709	58,570	3,69,139
Total Major Works ...	26,995	74,906	2,89,229	1,43,671	5,07,806	5,34,801	19	5,34,782	62,965	4,71,817
MINOR WORKS AND NAVIGATION										
12. Kári Cut	8,051	172	14,802	321	15,295	23,346	...	23,346	11,960	11,386
13. Hartala Tank... ..	...	142	44	973	1,159	1,159	...	1,159	...	1,159
14. Mhasva do. ... ..	...	222	168	327	707	707	...	707	...	707
15. Jámda Canals... ..	1,191	1,331	6,602	4,355	12,288	13,479	24	13,455	1,830	11,625
16. Parsul Tank	—14	957	326	25	1,338	1,324	179	1,145	—5	1,150
17. Pravara River Works—										
Ojhar Canal	573	2,061	2,496	582	5,139	(a) 5,712	14	5,698	309	5,389
18. Bhatodi Tank	2,339	2,895	727	361	3,983	(a) 6,322	308	6,014	1,205	4,809
19. Mátoba do. ... ..	...	1,329	7,839	116	9,284	9,284	...	9,284	68	9,216
20. Kásurdi do. ... ..	...	...	...	46	46	46	...	46	...	46
21. Shirsuphal do. ... ..	...	...	336	173	509	509	...	509	...	509
22. Bhádalvádi do. ... ..	...	612	1,077	7	1,696	1,696	...	1,696	...	1,696
23. Koregaon do. ... ..	...	677	267	40	984	984	...	984	...	984
24. Ashri do.	546	1,892	2,086	568	4,546	5,092	...	5,092	775	4,317
25. Revári Canal ... ..	...	3,523	1,600	114	5,237	5,237	...	5,237	221	5,016
26. Upper Mán River Works ...	366	2,411	4,072	86	6,569	6,935	...	6,935	525	6,410
27. Yerla River Irrigation Works.	35	7,028	4,160	1,382	12,570	12,605	...	12,605	58	12,547
28. Chikhli Canal... ..	...	915	1,463	44	2,422	2,422	...	2,422	69	2,353
29. Maini Tank	54	3,331	3,496	85	6,912	6,996	...	6,996	600	6,396
30. Muchkundi do. ... ..	...	6	68	453	527	527	...	527	...	527
31. Nilgund do. ... ..	...	...	...	...	...	...	...	...	...	...
32. Gadikeri do. ... ..	...	...	...	...	...	(a) ...	...	...	...	...
33. Dánbal do.	76	261	70	402	733	(a) 809	...	809	31	778
34. Medleri do. ... ..	...	116	454	...	570	570	...	570	...	570
35. Madag do.	175	965	1,277	100	2,342	2,517	...	2,517	370	2,147
36. Asundi do. ... ..	...	303	335	...	638	(a) 638	...	638	35	603
37. Mávinkop do. ... ..	...	...	...	6	6	(a) 6	...	6	...	6
Total, Minor Works and Navigation	13,422	31,179	53,755	10,566	95,500	1,03,922	525	1,03,397	18,051	90,346
PROVINCIAL.										
MINOR WORKS AND NAVIGATION.										
39. Gokák Canal, 1st Section, and Storage Works ... ..	...	3,407	8,573	11,043	23,023	23,023	...	23,023	...	23,023
GRAND TOTAL ...	40,417	1,09,492	3,51,557	1,65,280	6,26,329	6,66,746	544	6,66,202	81,016	5,85,186

(a) Exclusive of irrigation share of consolidated assessment.
 (b) Inclusive of Rs. 2,274 on account of rabi of 1895-96 shown in Canal Return No. IX.

A. L. WRIGHT,
 For Examiner, Public Works Accounts.

IV.—C.

Statement showing the Financial Results of Irrigation Works in Deccan and Gujarat for the year ended 1895-96, based on the Assessment of the year.

Principal Results and Operations for the year ended 31st March 1896.

Irrigation Works,	Canal Outlay (direct and indirect) to end of year.	REVENUE ASSESSED DURING THE YEAR.									Working Expenses direct and indirect.	Net assessed Revenue of the year.	Percentage on Capital Outlay to end of year.	
		Direct assessed Revenue (a).								Indirect Revenue—(Land Revenue due to Operation of Canal) (b).				Grand Total.
		Occupier's rate.	Owner's rate.	Plantations.	Water power.	Navigation.	Miscellaneous.	Total.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
IMPERIAL MAJOR WORKS.														
<i>Protective Works.</i>														
1	Nira Canal	58,51,480	86,736				1,516	88,802		88,802	50,978	37,234	76	
2	Mhasvad Tank	20,72,506	12,570		1		2,625	15,196		15,196	15,822	-626	73	
	Total	77,23,986	99,356		1		4,141	1,03,498		1,03,498	66,800	36,898	78	
<i>Productive Works.</i>														
5	Hathmathi Canal	5,17,838	9,120		314		985	10,419		10,419	5,702	4,657	90	
6	Lower Pánjhra River Works	4,64,469	10,763		301		544	11,608	6,788	18,396	7,998	10,398	224	
7	Kadva River Works	7,23,860	9,645		22		141	9,808	594	10,402	9,441	961	113	
8	Pravara River Works—Lákh Canal.	3,71,891	1,120		178		1,466	2,759	147	2,906	10,537	-7,631	305	
9	Mutha Canals	65,88,127	1,77,641		3	6,000	1,14,785	2,98,428	42	2,98,470	77,689	2,30,881	836	
10	Ekruk Tank	13,40,386	12,291		289		13,038	25,576		25,576	15,461	10,115	75	
11	Krishna Canal	8,64,892	38,465				1,511	39,976		39,976	12,057	27,899	322	
	Total	1,08,71,463	2,59,045		1,094	6,000	1,32,435	3,98,574	7,571	4,06,145	1,38,875	2,67,270	246	
	Total Major Works	1,85,95,449	3,58,401		1,095	6,000	1,36,576	5,02,072	7,571	5,09,643	2,05,675	3,03,968	163	
MINOR WORKS AND NAVIGATION.														
12	Khári Cut	1,81,848	14,854		53		288	15,175		15,175	5,280	9,876	643	
13	Hartála Tank	79,892	144		560		423	1,127		1,127	304	733	100	
14	Mhasva do.	1,35,956	230		1		328	557		557	1,121	-564	41	
15	Jánda Canals	10,40,969	8,213		3,920		435	12,567		12,567	10,082	2,485	24	
16	Parul Tank	2,16,754	902				25	927		927	1,080	-153	7	
17	Pravara River Works—Ojhar Canal.	3,30,275	6,189		20		536	6,771	76	6,847	14,218	-7,371	223	
18	Bhatodi Tank	3,79,707	3,271				361	3,632	1,351	4,983	8,956	-3,973	105	
19	Matoba do.	2,01,422	6,971				116	9,087		9,087	3,014	6,073	302	
20	Kasurdi do.	45,590	8				48	54		54	3,760	-3,712	814	
21	Shiruphal do.	2,24,598	2,061				173	2,237		2,237	2,692	-455	20	
22	Bhadalwadi do.	2,27,422	2,292				7	2,299		2,299	1,968	351	16	
23	Koregaon do.	89,189	850				890	890		890	815	75	19	
24	Ashi do.	6,31,103	3,977		28		543	4,545		4,545	3,918	627	70	
25	Revári Canal	69,511	5,617				114	5,731		5,731	3,404	2,327	379	
26	Upper Mán River Works	4,30,451	6,694				86	6,750		6,750	5,103	1,647	76	
27	Yerla River Irrigation Works	6,94,411	9,067				1,382	10,449		10,449	6,419	4,031	58	
28	Chikhli Canal	57,442	1,657				44	1,701		1,701	967	734	128	
29	Maini Tank	3,90,434	4,725				85	4,810		4,810	3,330	1,480	38	
30	Muckkundi Tank	1,58,707	82		77		874	535		535	292	243	16	
31	Nilgund do.	9,027									27	-27	30	
32	Gadikeri do.	9,379							1,987	1,987	169	1,768	1927	
33	Dámbal do.	63,880	150		79		823	552	951	1,533	1,088	445	68	
34	Medleri do.	81,322	522					522		522	920	-398	49	
35	Madag do.	1,67,698	2,273		15			2,353		2,353	1,000	1,353	43	
36	Anundi do.	74,995	437					437		437	694	105	14	
37	Mavinkop do.	30,847					6	6	1,857	1,863	186	1,677	544	
	Total Minor Works and Navigation	61,59,559	83,169		4,749		5,817	93,734	6,884	1,00,618	82,630	18,588	3	
PROVINCIAL.														
<i>MINOR WORKS AND NAVIGATION.</i>														
39	Onák Canal, First Section, and Storage Works	12,11,563	10,907		72	10,916	155	21,950		21,950	6,582	15,368	127	
	GRAND TOTAL	2,50,66,591	4,52,476		5,916	16,816	1,42,548	6,12,756	14,455	6,32,211	2,04,257	3,27,954	130	

(a) Excluding remissions shown in Canal Return No. V for kharif and rabi seasons of 1895-96.

(b) Irrigation share of land revenue assessment.

A. L. WRIGHT,
For Examiner of Public Works Accounts,

STATEMENT I—E.

Statement of Areas irrigated by Irrigation Works in the Bombay

No.	Name of Canal.	AREA IRRIGATED IN ACRES.							AVERAGE DISCHARGES, CUBIC FEET PER SECOND.				
		Kharif.	Rabi.	Total.	Flow.	Lift.	Double-cropped.		At Head.		Utilized.		
							Area irrigated.	Percentage of Total Area.	Kharif.	Rabi.	Kharif.	Rabi.	
1	2	3	4	5	6	7	8	9	10	11	12	13	
MAJOR WORKS.													
<i>Protective Works.</i>													
1	Nira Canal	9,953	13,500	23,453	23,408	45	...	...	19 ³	230	184	249
2	Mhasvad Tank... ..	1,233	2,248	3,481	3,467	14	375	10.77	29.61	54.54	29.61	54.54	
	Total	11,186	15,748	26,934	26,875	59	375	1.39	...	...	...	...
<i>Productive Works.</i>													
5	Háthmati Canal (a)	1,495	1,944	3,439	3,436	3	...	...	85.50	72.75	41.12	36.00
6	Lower Pánjra River Works ...	1,593	1,269	2,862	2,858	4	45	1.57	16.92	9.63	16.92	9.63	
7	Kádwa River Works. {	Wághad Tank... ..	...	...	...	...	...	...	...	...	...	...
		Páikhed Canal... ..	421	1,201	1,622	1,611	11	13	.80	16.45	26.65	10.66	14.66
		Ojhar Támbat Canal... ..	116	412	528	519	9	3	.36	3.09	5.36	2.47	4.02
8	Pravara River Works—Lákh Canal... ..	58	281	339	339	...	2	.59	6.30	7.71	4.85	5.09	
9	Mutha Canals	7,462	676	8,138	8,078	60	351	4.31	165.62	137.33	Not available.	Not available.	
10	Ekrak Tank	1,671	918	2,589	2,561	28	136	5.25	30.44	32.05	27.50	29.56	
11	Krishna Canal	1,719	1,485	3,204	2,770	434	27	0.84	42.81	64.09	41.36	59.03	
	Total	14,667	8,388	23,055	22,495	560	595	2.58	...	...	...	...
	Total, Major Works	25,853	24,136	49,989	49,370	619	970	1.91	...	...	...	...
MINOR WORKS AND NAVIGATION.													
12	Khári Cut	3,109	17	3,126	2,672	454	107	3.42	18.56	4.82	18.90	3.32	
13	Hartála Tank	15	55	70	70	...	...	...	0.50	0.86	0.50	0.86
14	Mhasva do.	18	36	54	51	3	...	...	0.70	0.68	0.70	0.68
15	Jámda Canals	743	729	1,472	1,472	...	35	2.38	33.63	33.63	33.63	33.66	
16	Parsul Tank	108	144	252	252	...	60	23.81	0.65	1.20	0.65	1.20	
17	Pravara River Works—Ojhar Canal... ..	577	1,319	1,896	1,884	12	120	6.33	36.71	33.85	29.16	23.45	
18	Bhátodi Tank	86	791	877	866	11	17	1.91	4.60	6.41	4.60	6.41	
19	Mátoba do.	840	328	1,168	1,168	...	108	9.26	9.67	8.73	9.67	8.73	
20	Kásurdi do. ... ..	...	3	3	3	...	...	...	...	...	...	...
21	Shrisuphal do.	131	589	720	718	2	...	...	2.46	7.25	2.46	7.25
22	Bhádálvádi do.	313	523	836	836	...	...	...	4.45	11.10	4.45	11.10
23	Koregaon do.	51	292	343	342	1	...	...	1.61	2.55	1.61	2.55
24	Ashti do.	486	837	1,323	1,320	3	83	6.27	8.95	10.34	8.95	10.34	
25	Revári Canal	141	1,083	1,224	1,221	3	22	1.79	6.68	6.76	6.55	6.79	
26	Upper Man River Works	723	912	1,635	1,633	2	194	11.85	3.46	5.24	1.88	3.81	
27	Yerla River Irrigation Works... ..	773	1,834	2,607	2,594	13	44	1.69	8.15	9.54	2.84	4.84	
28	Chikhli Canal	322	55	377	374	3	4	1.06	3.16	8.49	2.34	8.19	
29	Maini Tank	705	493	1,198	1,185	13	64	5.34	4.13	6.72	4.57	6.72	
30	Muchkundi Tank	16	6	20	20	...	...	...	...	...	...	...
31	Nilgund do. ... ..	...	...	...	...	...	...	...	...	...	...	...
32	Gadikeri do.	†337	...	†337	...	...	...	...	...	...	...	...
33	Dámbal do.	{ 10 } †144	{ 39 } †144	{ 49 } †144	{ 49 } ...	...	...	...	0.90	2.02	...	...
34	Medleri do.	124	21	145	124	21	...	...	0.78	2.73	...	...
35	Madag do.	576	357	933	931	2	...	...	3.46	5.86	...	...
36	Asundi do.	96	{ 46 } †185	{ 112 } †185	{ 130 } ...	12	...	...	1.31	0.63	...	...
37	Mávkop do.	{ ... } †640	{ ... } ...	{ ... } †540	{ ... } ...	...	...	...	...	...	...	...
	Total	{ 9,962 } †1,021	{ 10,608 } †185	{ 20,470 } †1,206	{ 19,915 } ...	556	858	4.19	...	...	...	...
PROVINCIAL.													
39	Gokák Canal, 1st Section	3,550	{ 914 } †962	{ 4,464 } ...	4,370	94	...	...	16.92	23.13	Approximately all.	...
	GRAND TOTAL	{ 39,365 } †1,021	{ 35,558 } †185	{ 74,923 } †1,206	73,655	1,268	1,828	2.44	...	...	...	...

E.

Presidency, excluding Sind, during the year 1895-96.

AREA IRRIGATED PER CUBIC FOOT PER SECOND.				BASE TO WHICH THE DUTIES OF WATER ARE CALCULATED.		REMARKS.
Discharged at Head.		Utilized.		Kharif.	Rabi.	
Kharif.	Rabi.	Kharif.	Rabi.			
14	15	16	17	18	19	20
50.27 41.64	51.92 41.21	54.09 41.64	54.22 41.21	16th January to 15th October. 16th January to 15th October.	16th October to 15th January. 16th October to 15th January.	
...			
17.49	26.72	36.36	54.00	1st June to 30th September.	1st October to 31st January.	(a) The discharge utilized was larger than that available during the kharif season because the water required was used from the Chaudola Tank which was kept full, while the supply received from head-work was at an average as per column 10, as water was taken from head-works only at times to fill up the tank.
94.15	131.77	91.15	131.77	1st April to 15th October ...	16th October to 15th January.	
25.59	45.06	38.77	81.92	.....	.....
37.54	76.87	46.96	102.48	1st June to 15th October ...	16th October to end of February.	
15.40	73.02	20.00	110.61	June to September ...	October to January.	
6.02	10.31	6.45	11.16			
45.05	4.92	Not available.		16th January to 15th October.	16th October to 15th January.	* Besides this, the mamul irrigation areas for kharif and rabi are taken as 39 and 282 acres respectively in calculating the duty.
54.89	28.64	60.76	31.05	16th January to 15th October.	Do.	
40.00	23.00	42.00	25.00	15th January to 14th October.	15th October to 14th January.	
...			
...			
180.55	3.53	164.50	5.12	July to October ...	November to February.	Beside this water was used for 242 acres of land assessed on the Chandola Tank which has not been accounted for.
30.00	63.95	30.00	63.95	1st April to 15 October ...	16th October to 15th January.	
25.71	52.94	25.71	52.94			
22.09	21.66	22.09	21.66	June to September...	October to January.	
166.15	120.00	166.15	120.00			
15.72	38.97	19.79	56.25			
18.70	123.40	18.70	123.40	16th January to 15th October.	16th October to 15th January.	
86.87	37.57	86.87	37.57	ber.		
53.25	81.24	53.25	81.24	16th January to 15th October.	16th October to 15th January.	
70.34	47.12	70.34	47.12	ber.		
31.67	114.51	31.67	114.51	16th January to 15th October.	16th October to 15th January.	
54.24	80.94	54.24	80.94	ber.		
21.00	150.00	22.00	159.00	15th January to 14th October.	15th October to 14th January.	
209.00	174.00	386.00	239.00	ber.		
95.00	192.00	272.00	379.00			
102.00	6.00	138.00	7.00			
171.00	73.00	154.00	73.00			
Not known.		Not known.		No experiment made.	No experiment made.	
...	
171.00	72.00					
159.00	43.00					
168.00	112.00	Not known.		16th January to 15th October.	16th October to 15th January.	† Area on which consolidated assessment is levied.
133.00	216.00			ber.		
...			
...	
210	81	210	81	16th January to 15th October.	16th October to 15th January.	‡ During rabi season eight months and perennial crops are irrigated. The area of this is included in kharif, but must be added to rabi area to get duty of water.
...	

Statement showing Incidence of Working Expenses and Assessed Water Revenue

No.	Name of Work.	Average Discharge of the year at Canal Head in Cubic feet per Second.	WATER-RATE ASSESSED.				Gross assessed Revenue from all Sources.	Working Expenses, Direct and Indirect.	
			Occupier's.	Owner's.	Total Direct.	Indirect.			Total Direct and Indirect.
			Rs.		Rs.	Rs.	Rs.	Rs.	
MAJOR WORKS.									
<i>Protective Works.</i>									
1	Nira Canal	213	86,786	...	86,786	...	86,786	88,302	50,973
2	Mhasvad Tank	35·84	12,570	...	12,570	...	12,570	15,146	15,122
	Total ... ..	...	99,356	...	99,356	...	99,356	1,03,498	66,800
<i>Productive Works.</i>									
5	Háthmati Canal	68	9,120	...	9,120	...	9,120	10,419	5,762
6	Lower Pánjra River Works	15·37	10,763	...	10,763	6,788	17,551	18,396	7,998
								33	1,312
7	Kádva River Work	21·55	6,398	...	6,398	594	6,992	7,108	5,739
	Wághad Tank, Pákhed Canal.	...	...	...	...	...	...	...	...
	Ojhar Tarnbat Canal	4·23	2,185	...	2,185	...	2,185	2,194	1,118
	Wadali Canal	7·00	1,062	...	1,062	...	1,062	1,067	1,272
8	Pravara River Works—Lakh Canal	21·54	1,120	...	1,120	147	1,267	2,906	10,537
9	Mutha Canals	151·47	1,77,641	...	1,77,641	42	1,77,683	2,98,470	77,589
10	Erkúk Tank	30·85	12,291	...	12,291	...	12,291	25,576	15,461
11	Krishna Canal	44·74	38,465	...	38,465	...	38,465	39,976	12,067
	Total ... ..	...	2,59,045	...	2,59,045	7,571	2,66,616	4,06,145	1,38,875
	Total, Major Works ... ..	...	3,58,401	...	3,58,401	7,571	3,65,972	5,09,642	2,05,675
MINOR WORKS AND NAVIGATION.									
12	Khári Cut... ..	9·71	14,854	...	14,854	...	14,854	15,175	5,299
13	Hartala Tank	0·69	154	...	154	...	154	1,127	394
14	Mhasva Tank	0·68	230	...	230	...	230	557	1,121
15	Jámda Canals	33·22	8,212	...	8,212	...	8,212	12,667	10,082
16	Parsul Tank	0·94	902	...	902	...	902	927	1,080
17	Pravara River Works—Ojhar Canal	31·57	6,189	...	6,189	76	6,265	6,847	14,218
18	Bhatodi Tank	4·36	3,271	...	3,271	1,351	4,622	4,933	8,955
19	Mátoba do... ..	9·20	8,971	...	8,971	...	8,971	9,087	3,014
20	Kásurdi ... ..	...	8	...	8	...	8	54	3,766
21	Shirsuphal do... ..	3·67	2,064	...	2,064	...	2,064	2,237	2,692
22	Bhádavadi do... ..	6·11	2,292	...	2,292	...	2,292	2,299	1,968
23	Koregaon do... ..	1·85	850	...	850	...	850	890	816
24	Ashti do... ..	9·31	3,977	...	3,977	...	3,977	4,545	3,918
25	Revári Canal	6·08	5,617	...	5,617	...	5,617	5,731	3,464
26	Upper Mán River Works	9·25	6,664	...	6,664	...	6,664	6,750	5,193
27	Yerla River Irrigation Works	7·78	9,067	...	9,067	...	9,067	10,449	6,418
28	Chikhli Canal	3·67	1,657	...	1,657	...	1,657	1,701	967
29	Maini Tank	4·30	4,725	...	4,725	...	4,725	4,810	3,320
30	Muchkundi do... ..	Not known	82	...	82	...	82	535	292
31	Nilgund do... ..	...	...	...	...	...	...	...	27
32	Gadikeri do... ..	...	...	...	...	1,987	1,987	1,987	199
33	Dámbaly do... ..	1·18	150	...	150	981	1,131	1,533	1,098
34	Medleri	1·27	522	...	522	...	522	522	920
35	Madag	4·07	2,273	...	2,273	...	2,273	2,373	1,660
36	Asundi	1·14	437	...	437	632	1,069	1,069	964
37	Mávinkop ... ..	...	...	...	...	1,857	1,857	1,863	186
	Total .. ..	...	83,168	...	83,168	6,884	90,052	1,00,618	82,030
PROVINCIAL.									
39	Gokák Canal, 1st Section, and Storage Works	20·02	10,907	...	10,907	...	10,907	21,950	6,582
	GRAND TOTAL ... ..	...	4,52,478	...	4,52,478	14,455	4,66,931	6,32,211	2,94,257

E.

on Canals in the Bombay Presidency excluding Sind, during the year 1895-96.

Area irrigated during the year 1895-96.	WORKING EXPENSES.			OCCUPIER'S RATE.		TOTAL WATER-RATE, DIRECT AND INDIRECT.		REMARKS.
	Per cent. on Gross Revenue.	Per Acre irrigated.	Per Cubic Foot per Second of Discharge at Canal Head.	Per Acre irrigated.	Per Cubic Foot per Second of Discharge at Canal Head.	Per Acre irrigated.	Per Cubic Foot per Second of Discharge at Canal Head.	
Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
23,453	58	2.17	239	3.70	407	3.70	407	
3,181	104	4.54	441	3.61	350	3.61	350	
26,934	65	2.48	.....	3.69	.....	3.69	.....
3,439	55.30	1.68	84.74	2.65	134.12	2.65	134.12	
2,862	43	2.79	520	3.76	700	6.13	1142	
...	3976	...	.....	...	.....	...	.....
1,622	81	3.54	266	3.94	297	4.31	324	
528	51	2.12	264	4.14	517	4.14	517	
339	119	3.75	182	3.13	152	3.13	152	
334	363	31.55	489	3.35	52	3.79	59	
8,138	26	9.53	512	21.83	1173	21.83	1173	
2,589	60	5.97	501	4.74	438	4.74	438	
3,204	30	3.77	270	12.00	860	12.00	860	
23,055	34	6.02	.....	11.2	.....	11.5	.....
49,989	40	4.11	.....	7.17	.....	7.32	.....
3,126	34.92	1.69	545.73	4.75	1529.76	4.75	1529.76	
70	35	5.63	571	2.20	223	2.20	223	
54	201	20.76	1648	4.26	338	4.26	338	
1,472	80	6.85	303	5.58	247	5.58	247	
252	117	4.29	1149	3.58	960	3.58	960	
1,396	208	7.50	450	3.26	196	3.30	198	
877	180	10.21	1842	3.73	673	5.27	951	
1,168	33	2.58	328	7.68	975	7.68	975	
3	6974	1255.33	.....	2.66	.....	2.66	.....
720	120	3.74	734	2.87	562	2.87	562	
836	85	2.35	322	2.74	375	2.74	375	
313	91	2.37	440	2.47	459	2.47	459	
1,323	86	2.96	421	3.00	427	3.00	427	
1,224	60	2.83	570	4.64	935	4.64	935	
1,635	77	3.18	1598	4.03	2050	4.08	2050	
2,607	61	2.46	825	3.48	1166	3.48	1166	
377	57	2.56	263	4.39	451	4.39	451	
1,198	69	2.77	772	3.94	1099	3.94	1099	
20	55	15	Not known.	4.10	Not known.	4.10	Not known.	
...	
*337	10.02	59	.....	...	.....	...	.....
49	70.34	22.41	931	3.65	152	6.01	983	
*144	176.25	45.68	724	3.60	411	3.60	411	
145	69.95	1.78	408	2.44	558	2.44	558	
933	90.17	6.79	845	3.08	383	3.27	938	
142	12.95	.....	.....	...	.....	3.44	.....
*185	9.99	0.34	.....	...	.....	.....	.....
*540	.....	.....	.....	...	.....	.....	.....
20,470	81	4.01	.....	4.07	.....	4.40	.....
*1,206	.....	.....	.....	.....	.....	.....	.....
4,464	29.84	1.48	328.92	2.47	551	2.47	551	
74,023	46	3.93	.....	6.04	.....	6.23	.....
*1,206	.....	.....	.....	.....	.....	.....	.....

* Area on which consolidated assessment is levied.
 † On total area of 183 acres.
 ‡ Do. 327 acres.

III—E.

Statement of Quantity and Value of Crops irrigated in the Bombay Presidency, excluding Sind, during the year 1895-96.

	(1) NIRA CANAL.		(2) MHASVAD TANK.		(5) HATHMI CANAL.		(6) LOWER PÁNJA RIVER WORKS.		(7) KADVA RIVER WORKS.						(8) PRAVARA RIVER WORKS—LAKTI CANAL.		(9) MUTHA CANALS.		
	Area irrigated,	Estimated Value.	Area irrigated.	Estimated Value.	Area irrigated.	Estimated Value.	Area irrigated.	Estimated Value.	Palkhed Canal.		Ojhar Tánbat Canal.		Wadáli Canal.		Area irrigated.	Estimated Value.	Area irrigated.	Estimated Value.	
									Acres.	Rs.	Acres.	Rs.	Acres.	Rs.					Acres.
Gardens and Orchards ... { Vegetables... { Fruit and other trees ...	70	5,995	66	1,320	...	...	34	662	20	700	14	490	1	35	14	291	167	6,346
	138	14,420	76	4,940	...	5	400	486	24,647	29	1,595	4	220	1	55	19	1,755	708	1,40,123
Sugarcane ...	3,088	7,14,720	308	46,200	84	16,800	216	20,466	255	19,125	65	4,875	12	900	46	7,360	4,366	15,53,655	
Cereals ... { Wheat ... { Barley ... { Rice... { Maize ... { Jowár ... { Chino, Rági, Ráta, Wara... { Ráji ... { Miscellaneous ...	2,422	47,365	538	16,140	480	14,400	789	11,041	462	13,860	97	2,910	132	3,960	31	1,085	268	11,753	
	20	225	27	270	87	2,175	1	20	23	861
	181	2,875	111	2,220	1,387	69,100	33	811	33	990	375	7,497
	110	1,095	111	1,110	96	2,850	87	1,056	...	...	...	10	...	...	2	40	22	538
	10,051	2,43,650	1,490	22,350	...	...	4	42	2	16	...	...	...	...	63	1,260	83	1,493
	27	435	34	340	91	2,730	1	4	...	...	...	...	...	...	59	1,357	24	520
	4,547	36,870	33	330	...	...	52	518	...	...	...	...	...	...	20	840	1,835	20,400
	13	220	...	...	6	150	2	9	...	...	1	10	2	20	...	...	23	824
Pulses ... { Gram, Udid, Mug... { Tur ... { Peas... { Ground-nut { Miscellaneous ...	712	12,620	136	1,360	1,006	20,120	23	853	116	2,320	41	820	15	300	39	936	92	2,271	
	13	215	2	40	...	...	...	542	2,891	...	...	...	...	...	...	...	2	17
	1,443	85,460	274	13,700	665	15,807	549	30,195	196	10,780	137	7,635	2	100	27	664
	1	5	8	80	2	20	143	1,544
Fodder Crops ... { Fodder ... { Lucerne, &c. ...	291	6,115	156	7,500	...	...	5	65	4	60	4	60	7	105	4	150	94	1,920
	2	250	...	...	...	...	1	5	...	...	...	...	...	...	...	...	230	34,654
Fibres ... { Cotton ... { Tág (Hemp) ...	...	...	...	...	...	...	62	1,030	...	...	...	...	...	...	8	300	...	...
	2	50	...	...	...	...	2	11	4	60	5	75	2	30	2	60	...	...
Dyes

Drugs and Narcotics ... { Tobacco ... { Bháng ...	14	550	1	50	...	...	...	...	...	...	...	...	...	...	2	176	2	60

Oil-seeds ... { Mustard, Sesam ... { Linseed, Castor-oil ...	9	55	...	...	...	...	34	520	...	...	...	...	...	...	...	...	17	256
	1	10	1	20	16	480	6	44	...	...	...	...	...	...	...	...	...	...
Condiments ... { Chilly and Onions ... { Garlic, Turmeric and Methi ...	187	8,365	16	640	5	250	29	649	33	1,485	71	3,195	...	...	19	1,182	104	4,222
	8	75	1	40	155	4,630	38	500	107	4,280	27	1,080	80	1,200	1	50	8	252	
Miscellaneous ...	100	970	...	...	22	...	...	...	...	...	...	...	...	...	...	...	21	...
Land insufficiently irrigated ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	...	...	...
Total ...	23,153	11,82,940	3,481	1,23,870	3,439	1,34,085	2,862	80,946	1,622	74,766	628	24,545	339	14,140	334	16,442	8,138	17,95,073	
Area on which consolidated assessment is levied ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

III—E—continued.

	(10) EKRUK TANK.		(11) KRISHNA CANAL.		(12) KHABI CUT.		(13) HARTALA TANK.		(14) MNASVA TANK.		(15) JAMDA CANALS.		(16) PARSUL TANK.		(17) PRAVARA RIVER WORKS—OJHAR CANAL.		(18) BHATODI TANK.		
	Area irri- gated.	Estimated Value.	Area irri- gated.	Estimated Value.	Area irri- gated.	Esti- mated Value.	Area irri- gated.	Esti- mated Value.	Area irri- gated.	Esti- mated value.	Area irri- gated.	Esti- mated Value.	Area irri- gated.	Esti- mated Value.	Area irri- gated.	Esti- mated Value.	Area irri- gated.	Esti- mated Value.	
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	
Gardens and (Vegetables... Orchards, { Fruits and other trees ...	...	...	40	800	10	300	...	...	...	...	46	448	...	...	23	386	1	80
	19	380	10	200	...	...	1	85	13	1,223	74	3,901	14	275	52	3,546	6	1,200
Sugarcane ...	497	1,49,100	1,419	4,26,000	5	1,000	2	100	3	800	301	25,461	12	610	151	24,160	13	3,276	
Cereals ...	Wheat ...	240	6,000	128	3,080	50	752	30	415	594	5,953	66	589	491	17,765	123	4,305
	Barley ...	2	40	5	100
	Rice... ..	335	10,050	69	2,760	2,607	78,210	1	18	53	497	1	1	4	240
	Maize... ..	4	80	13	314	13	120	4	55	2	40
	Jowar ...	590	11,800	113	3,692	92	1,380	1	8	56	563	389	7,780	431	12,930
	Chino, Bāgi, Rala, Wara... Bājri Miscellaneous ...	15	150 15 526	2 1 ...	35 8	29 375 ...	238	4,046	1 ... 3	25 ... 60
Pulses ...	Gram, Udid, Mug... Tur ...	65 6	975 120	2 ...	60	3 ...	55 ...	6 ...	45 ...	59 ...	564 ...	43 ...	365 ...	412 ...	9,888 ...	153 ...	3,672 ...
	Peas...	27	530	16	94
	Ground-nut ...	574	17,220	1,246	24,920	1	30	8	24	1	38	9	450	63	5,040
	Miscellaneous
Fodder Crops... { Fodder ... Luerne, &c. ...	92 ...	1,980 ...	45 ...	1,128	21 ...	655 ...	71 ...	3,080 ...	2 ...	300 ...
Fibres... { Cotton ... Tig (Hemp)	1	8	7	165	8	85
	120	698
Dyes
Drugs and Nar- (Tobacco ... otics. { Bhāng ...	...	...	10	400	...	...	...	...	...	...	1	10	...	...	4	352	9	900
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	1,300	27	1,377
Oil-seeds ... { Mustard, Sesam ... Linseed, Castor-oil ...	4 ...	80 ...	...	...	...	...	...	...	...	...	...	...	35 ...	508 ...	...	...	8 ...	224 ...
	
Condiments ... { Chilly and Onions ... Garlic, Turmeric and Methi...	87 53	3,045 1,590	36 30	748 900	...	...	1 ...	12 ...	2 ...	150 ...	93 20	2,271 77	2 13	19 174	26 5	1,000 250	5 ...	308 ...
	Miscellaneous ...	...	...	...	11	...	...	...	...	...	10	...	11	135	...	...	32	8,192
Land insufficiently irrigated ...	...	...	...	...	396	1,584	...	...	...	...	...	...	...	...	6	...	...	...
Total ...	2,589	2,02,590	3,204	4,66,058	3,126	82,574	70	1,218	54	2,135	1,472	40,766	252	3,799	1,896	73,983	877	41,889	
Area on which consolidated assessment is levied ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

III—E—continued.

	(19) MATOBA TANK.		(20) KAMUDDI TANK.		(21) SHIRSHUPHAL TANK.		(22) BHADALVADI TANK.		(23) KOROGAON TANK.		(24) ASUTI TANK.		(25) REVARI CANAL.		(26) UPPER MAN RIVER WORKS.		(27) YERLA RIVER IRRIGATION WORKS.		(28) CHIKKI CANAL.		
	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	Area Irrigated.	Estimated Value.	
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	
Gardens and Orchards ... { Vegetables ...	7	315	...	...	...	...	1	185	1	40	2	80	8	60	...	...	6	60	...	...
... { Fruit and other trees ...	9	2,934	...	...	19	18,090	12	5,530	1	100	19	1,000	6	450	4	100	20	1,000	...	...
Sugarcane ...	406	1,53,007	...	...	21	4,500	53	11,775	30	9,000	00	27,000	52	8,810	92	2,300	58	1,450	27	8,310
Cereals ...	Wheat ...	155	6,511	208	8,650	100	3,575	31	275	220	5,500	124	4,748	226	3,616	154	2,310	18	421
	Barley ...	28	1,114	...	...	11	170	8	35	...	...	...	...	...	23	280	5	30	...	...
	Rice ...	60	1,212	22	1,105	131	6,695	3	75	166	3,320	14	425	22	330	11	165	4	136
	Maize	1	10	35	700	138	1,032	44	215
	Jowar ...	104	1,501	3	48	153	5,120	392	9,275	160	3,320	531	10,020	577	1,733	507	7,371	1,124	22,280	75	3,018
	Chino, Ragi, Rala, Wari...	1	12	1	15	1	30	2	24	50	250	17	85	4	54
Bajri ...	308	7,710	...	...	83	1,235	01	1,350	...	...	2	50	...	...	57	285	10	100	4	84
Miscellaneous ...	1	5	...	...	...	...	...	...	...	...	14	700	40	1,944	36	510	49	735	2	50
Pulses ...	Gram, Uddi, Mug ...	28	704	23	200	15	180	2	50	78	1,050	5	69	97	1,164	149	1,490	9	270
	Tur ...	3	50	...	...	...	...	...	...	...	27	675	...	...	...	...	...	...	...	...
	Pean ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ground-nut ...	3	51	111	4,440	84	3,300	309	2,610	287	2,296	930	9,500	180	1,710
Miscellaneous ...	33	824	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fodder Crops... { Fodder ...	1	23	...	...	...	...	3	20	...	...	...	...	1	10	...	...	...	...	...	...
	Lucerne, &c. ...	1	40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fibres ... { Cotton ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	TAg (Hemp) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dyes ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Drugs and Narcotics ... { Tobacco ...	...	...	...	...	...	...	1	95	...	...	5	200	2	72	3	54	...	...	1	40
	... { Bhang ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oil-seeds ... { Mustard, Sesam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	... { Linseed, Castor-oil ...	...	...	...	...	1	15	...	...	...	...	...	...	...	...	...	...	...	...	...
Condiments ... { Chilly and Onions ...	14	443	...	...	17	1,335	24	6,060	8	320	40	1,300	8	876	28	488	22	500	...	...
	... { Garlic, Turmeric and Methi ...	6	128	...	...	...	...	...	10	450	...	...	12	480	1	20	5	50	47	1,560
Miscellaneous ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	4	...	7	...	...	...
Land insufficiently irrigated ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,168	1,70,723	3	48	720	41,025	836	45,625	843	18,070	1,323	58,025	1,224	21,817	1,635	20,976	2,607	39,770	377	15,638	
Area on which consolidated assessment is levied ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

	gated.	value.	gated.	value.	gated.	value.	gated.	value.	gated.	value.	gated.	value.	gated.	value.	gated.	value.	gated.	value.	gated.	value.	
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	
Gardens and Orchards. { Vegetables ...	11	110	7	129	...	...	18	450	18	810	70	5,545	69	5,195	...	...	57	912	776	31,784
Gardens and Orchards. { Fruit and other trees ...	24	2,500	4	450	...	...	7	220	39	4,843	1	93	2	250	...	...	38	2,850	1,860	2,40,527
Sugarcane ...	53	8,480	...	...	...	...	3	172	...	...	43	4,350	1	75	...	...	125	11,260	11,897	32,70,187
Cereals ...	Wheat...	82	3,280	...	...	...	...	...	...	...	...	...	...	...	...	...	7	105	8,315	1,99,704
	Barley...	4	100	...	...	...	...	...	...	...	...	...	...	...	...	...	67	670	304	6,040
	Rice ...	10	285	6	60	...	...	...	63	1,890	254	7,620	4	112	...	...	96	1,440	6,066	1,99,939
	Maize ...	1	20	...	...	...	...	...	...	...	...	...	...	...	...	...	1,320	21,120	1,953	31,305
	Jowar ...	131	4,192	1	10	3	45	4	70	6	125	3	55	1,276	14,086	18,581	3,59,873
	Chino, Ragi, Rala, Wara	5	75	1	19	8	124	1	15	287	2,870	632	9,155
Pulses ...	Bajri ...	48	480	...	...	...	...	...	...	...	...	...	...	...	...	...	11	110	6,609	74,351
	Miscellaneous ...	5	125	...	...	...	...	...	...	...	1	15	...	...	...	...	...	...	222	5,933
Fodder Crops. {	Gram, Udid, Mug	244	4,870	1	7	...	...	...	...	...	...	...	...	...	...	...	146	1,898	3,720	69,616
	Tur ...	3	50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	56	1,147
	Pean ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	389	3,625
	Miscellaneous...	499	9,980	...	...	...	...	...	...	...	...	...	...	...	...	...	110	1,760	7,874	2,52,466
Fibres ... {	Cotton ...	...	...	...	...	...	...	...	2	50	2	43	...	...	...	...	37	703	122	2,384
	Tag (Hemp) ...	...	...	...	...	...	...	...	14	290	...	...	...	...	...	...	49	735	200	2,009
Drugs and Narcotics. {	Tobacco ...	2	150	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	57	3,109
Drugs and Narcotics. {	Bhang ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40	2,677
Oil-seeds ... {	Mustard, Sesam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	60	105	1,479
	Linseed, Castor-oil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33	793
Condiments... {	Chilly and Onions	9	200	1	6	...	...	3	225	...	10	300	19	570	...	...	608	12,160	1,638	53,878
	Garlic, Turmeric and Methi	8	160	...	...	...	...	15	823	3	120	536	16,063	43	1,260	...	6	66	1,186	35,815
Miscellaneous ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	218	2,180	459	11,477
Land insufficiently irrigated ...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	413	1,584
Total ...	1,198	36,732	20	662	...	...	49	*1,440	145	8,092	933	34,280	142	7,562	...	...	4,464	74,925	74,923	49,63,324
Area on which consolidated assessment is levied ...	...	...	...	...	337	...	144	...	...	...	...	...	185	...	540	...	...	...	1,206	.....

* Crops suffered much : therefore estimated value calculated according to the quality produced.

Comparative Statement of Irrigation and Rainfall for the years 1894-95

No.	Work supplying Irrigation.	Civil Station.	Total Area of the Civil District.	Culturable area of the Civil District.	Cultivated area of the Civil District.	Culturable area commanded by Irrigation Works in Column 3.
1	2	3	4	5	6	7
MAJOR WORKS.						
<i>Protective Works.</i>						
1	Háthmati Canal	Ahmedabad...	2,443,565	1,961,838	1,889,163	11,336
2	Khári Cut					11,500
Total ...						22,836
3	Nira Canal	Poona	3,423,542	2,551,321	2,542,534	227,670
4	Mutha Canals					49,800
5	Matoba Tank					7,133
6	Kasurdi do.					478
7	Shirsuphal do.					2,500
8	Bhádálvádi do.	2,400				
Total ...		289,981				
9	Lower Pánjhra River Works...	Khándesh	5,660,936	3,608,962	3,081,900	12,627
10	Hartála Tank					527
11	Mhasva do.					4,075
12	Jamda Canals					40,185
Total ...		57,414				
13	Kádwa River Works. { Wághad Tank Palkhed Canal Ojhar Tamhat Canal Wadáli Canal	Násik	3,723,208	2,449,422	1,934,941	26,280
14	Parsul Tank					3,197
Total ...		39,627				
15	Pravara River Works—Lákh Canal	Ahmednagar	4,215,468	3,233,907	3,199,104	25,536
16	Do. —Ojhar Canal					21,155
17	Bhatodi Tank					13,657
Total ...		60,348				
18	Mhasvad Tank... ..	Sholápur	2,905,194	2,474,286	2,462,024	1,06,214
19	Ekrok do.					16,941
20	Koregaon do.					Not
21	Ashti do.					16,825
Total ...		139,980				
22	Krishna Canal	Sátára	3,087,619	2,235,850	2,278,334	26,453
23	Revári do.					3,624
24	Upper Mán River Works					7,623
25	Yerla River Irrigation Works... ..					10,680
26	Chikhli Canal					1,478
27	Maini Tank					4,625
Total ...						54,453
28	Muchkundi Tank	Bijápur	3,601,623	3,221,247	3,170,701	5,417
29	Nilgund do. ... ..					...
Total ...		5,417				
30	Gadikeri Tank... ..	Belgaum	2,984,206	2,357,366	2,279,296	Not known.
31	Gokák Canal, 1st Section					17,627
Total ...		17,627				
32	Dámbal Tank	Dhárwar	2,940,668	2,410,736	2,321,300	4,625
33	Mulleri do.					1,052
34	Madag do.					2,452
35	Asundi do.					1,800
Total ...		9,929				
36	Mávinkop Tank	Kánara	2,523,797	358,389	232,587	765
Grand Total ...			57,515,726	26,961,614	26,341,954	608,297

E.

and 1895-96 in the Bombay Presidency, excluding Sind.

Culturable area at present irrigable by works specified in Column 2.	AREA IRRIGATED IN ACRES.						RAINFALL.		REMARKS.	
	1894-95.			1895-96.			1904-95.	1895-96.		
	Kharif	Rabi.	Total.	Kharif.	Rabi.	Total.	Inches.	Inches.		
8	9	10	11	12	13	14	15	16	17	
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.		
8,000	1,797	2,402	4,199	1,495	1,944	3,439	50.95	22.76		
2,846	2,053	35	2,088	3,109	17	3,126	51.33	31.82		
10,846	3,850	2,437	6,287	4,604	1,961	6,565				
56,640	12,349	16,021	28,370	9,953	13,500	23,453	17.75	*23.83	*23-84 in the Comparative Statement of Irrigation and Rainfall issued under G. E. No. 101 W. I.—1230, dated 26th August 1896, is a clerical error. The correct figures are:— Kharif 18.63. Rabi 4.20. — 32.83	
16,800	7,662	2,520	10,082	7,462	676	8,138	32.22	32.14		
2,600	828	592	1,420	840	328	1,168	15.28	17.57		
478	1	...	1	...	3	3	13.14	22.21		
2,500	177	...	177	131	589	720	15.24	16.62		
2,400	6	293	299	313	523	836	14.23	17.75		
81,418	20,923	19,426	40,349	18,699	15,619	34,318				
12,627	1,692	1,098	2,790	1,593	1,269	2,862	18.47	27.82		
415	12	71	83	15	55	70	34.71	18.61		
1,700	21	106	127	18	36	54	28.07	31.01		
5,000	539	609	1,148	743	729	1,472	24.37	24.11		
19,742	2,264	1,884	4,148	2,369	2,089	4,458				
...		
9,837	688	1,163	1,851	421	1,201	1,622	25.38	29.92		
2,367	222	367	589	116	412	528	} 30.28	27.77		
2,433	72	255	327	58	281	339		25.37	18.03	
1,000	116	247	363	108	144	252				
15,637	1,098	2,032	3,130	703	2,038	2,741				
11,280	138	172	310	132	202	334	25.64	17.38		
14,763	593	951	1,544	577	1,319	1,896	24.29	24.57		
12,124	517	1,181	1,698	86	791	877	24.35	24.65		
38,167	1,248	2,304	3,552	795	2,312	3,107				
45,813	1,207	3,019	4,226	1,233	2,248	3,481	15.71	27.78		
14,352	1,830	1,462	3,292	1,671	918	2,589	20.18	31.09		
known.	85	306	391	51	292	343	23.10	43.95		
14,476	645	814	1,459	486	837	1,323	21.70	29.55		
74,641	3,767	5,601	9,368	3,441	4,295	7,736				
26,453	2,689	1,982	4,671	1,719	1,485	3,204	25.45	29.41		
3,624	942	1,199	1,541	141	1,083	1,224	31.76	31.90		
7,623	614	680	1,294	723	912	1,635	20.18	23.28		
10,680	147	2,239	2,386	773	1,834	2,607	29.40	28.60		
1,478	147	258	405	322	55	377	20.02	22.36		
4,623	272	1,008	1,280	705	493	1,198	14.43	29.56		
54,483	4,211	7,366	11,577	4,383	5,862	10,245				
3,417	16	3	19	15	5	20	17.87	12.58		
..		
3,417	16	3	19	15	5	20				
337	†337	...	†337	†337	...	†337	28.53	23.67	† Area on which consolidated assessment is levied.	
6,170	3,038	1,325	4,363	8,550	914	4,464	13.90	24.92		
6,507	†337	1,325	†337	†337	914	†337				
	3,038		4,363	3,550		4,464				
4,525	{ 98 } †143	{ 74 } 74	{ 172 } †143	{ 10 } †44	{ 39 } 39	{ 49 } †144	} 12.98	} 14.58		
1,052	{ 100 } 580	{ 87 } 335	{ 137 } 924	{ 124 } 576	{ 21 } 357	{ 145 } 933			9.29	18.70
2,188	{ 112 } †185	{ 99 } †185	{ 211 } †85	{ 96 } 96	{ 46 } †185	{ 142 } †185			19.74	21.50
1,800	{ 112 } †185	{ 99 } †185	{ 211 } †85	{ 96 } 96	{ 46 } †185	{ 142 } †185			13.49	16.87
9,565	†143	†185	†323	†144	†185	†329				
	899	545	1,441	806	463	1,269				
617	†492	...	†492	†540	...	†540	No gauge.	No gauge.		
315,040	41,314	42,923	84,237	39,365	35,558	74,923	23.13	24.51		
...	†972	†185	†1,157	†3,021	†85	†1,206				

STATEMENT F.

Statement showing the Operation of Irrigation Works in the Deccan and Gujarat for the year 1895-96.

No.	Names of Works.	AMOUNT DUE, 1895-96.		REMISSIONS.		TOTAL.		Grand Total.	REMARKS.
		Kharif, 1895-96.	Rabi, 1895-96.	Kharif.	Rabi.	Kharif.	Rabi.		
1	2	3	4	5	6	7	8	9	10
MAJOR WORKS.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<i>Protective Works,</i>									
1	Nira Canal	51,889	34,897	...	...	51,889	34,897	86,786	
2	Mhaswad Tank	6,637	5,933	...	...	6,637	5,933	12,570	
	Total ...	58,526	40,830	...	...	58,526	40,830	99,356	
<i>Productive Works,</i>									
5	Háthmati Canal	5,096	4,178	49	104	5,046	4,074	9,120	
6	Lower Panjcha River Works ...	7,342	3,421	...	...	7,342	3,421	10,763	
7	Kádvá River Works, { Wághad Tank. Pálkhad Canal. Ojhar Támbat Canal. Wadáli Canal.	...	...	...	...	...	...	...	...
		2,921	3,477	...	...	2,921	3,477	6,398	
		749	1,436	...	...	749	1,436	2,185	
		291	771	...	...	291	771	1,062	
8	Pravara River Works—Lákh Canal	675	445	...	...	675	445	1,120	
9	Mutha Canals	1,72,694	4,947	...	...	1,72,694	4,947	1,77,641	
10	Ekrak Tank	9,585	2,706	...	...	9,585	2,706	12,291	
11	Krishna Canal	31,402	7,063	...	...	31,402	7,063	38,465	
	Total ...	2,30,754	28,444	49	104	2,30,705	28,340	2,59,045	
	Total, Major Works ...	2,89,280	69,274	49	104	2,89,231	69,170	3,58,401	
MINOR WORKS AND NAVIGATION.									
12	Khári Cut	19,457	52	4,655	...	14,802	52	14,854	
13	Hartala Tank	43	111	...	...	43	111	154	
14	Mhasva do.	168	72	...	...	168	72	230	
15	Jámda Canals	6,602	1,610	...	...	6,602	1,610	8,212	
16	Pársul Tank	326	576	...	...	326	576	902	
17	Pravara River Works—Ojhar Canal	2,496	3,693	...	...	2,496	3,693	6,189	
18	Bhatodi Tank	727	2,544	...	...	727	2,544	3,271	
19	Matoba do.	7,539	1,132	...	...	7,539	1,132	8,671	
20	Kásurdi do. ... ..	...	8	...	...	...	8	8	
21	Shirsuphal Tank	336	1,728	...	...	336	1,728	2,064	
22	Bhádalvádi do.	1,077	1,215	...	...	1,077	1,215	2,292	
23	Koregaon do.	267	583	...	...	267	583	850	
24	Ashti do.	2,086	1,891	...	...	2,086	1,891	3,977	
25	Revári Canal	1,628	4,054	27	38	1,601	4,016	5,617	
26	Upper Man River Works ...	4,072	2,592	...	...	4,072	2,592	6,664	
27	Yerla River Irrigation Works ...	4,166	4,907	6	...	4,160	4,907	9,067	
28	Chikhli Canal	1,463	194	...	...	1,463	194	1,657	
29	Maini Tank	3,496	1,229	...	...	3,496	1,229	4,725	
30	Muchkundi Tank	68	14	...	...	68	14	82	
31	Nilgund do. ... ..	...	...	...	...	...	...	...
32	Gadikeri do. ... ..	...	...	...	...	...	...	...
33	Dambal do.	99	80	29	...	70	80	150	
34	Medleri do.	454	68	...	...	454	68	522	
35	Madag do.	1,277	996	...	...	1,277	996	2,273	
36	Asundi do.	335	102	...	...	335	102	437	
37	Mávinkop do. ... ..	...	...	...	...	...	...	...
	Total ...	68,472	29,451	4,717	38	53,755	29,413	83,168	
PROVINCIAL.									
39	Gokák Canal, 1st Section, and Storage Works.	8,690	2,334	117	...	8,573	2,334	10,907	
	GRAND TOTAL ...	3,56,442	1,01,039	4,663	142	3,51,569	1,00,917	4,62,476	

Statement showing Water-rates per Acre in force during 1895-96 on Irrigation Works in the Bombay Presidency, excluding Sind.

No.	Names of Works,	WATER-RATES.						Occupier's Rate.	Owner's Rate.	Water advantage.	REMARKS.
		Class I.	Class II.	Class III.	Class IIIA.	Class IV.	Class V.				
		Perennial.	Eight months.	Four months.	Superior Rabi crops.	Monsoon dry.	Special hot weather.				
1	2	3	4	5	6	7	8	9	10	11	12
MAJOR WORKS.											
Protective Works.											
1	Nira Canal*	{ A. 15 B. 16 C. 12 Pangardens 16	4 8 0	2 4 0	.....	1 0 0	6 0 0				* Revised rates sanctioned—vide Government Resolution No. 1 A. I.—1, dated 2nd January 1895.
2	Mhasvad Tank ...	10	4 0 0	2 0 0	.....	0 12 0	4 0 0				
Productive Works.											
5	Háthmati Canal ...	10	† 3 0 0	2 0 0	.....	1 0 0	6 0 0				† Rice flooding land is charged at Re. 1.
6	Lower Pánjhra River Works ...	10	4 0 0	2 0 0	.....	1 0 0	4 0 0				
7	Kádva River Palkhed Canal ...	8	4 0 0	2 0 0	.....	1 0 0	6 0 0				
7	Kádva River Ojhar Tánbat Canal Works.	8	4 0 0	2 0 0	.....	1 0 0	6 0 0				
7	Wadali Canal ...	8	4 0 0	2 0 0	.....	1 0 0	6 0 0				
8	Pravara River Works—Lákh Canal.	8	4 0 0	2 0 0	.....	0 8 0	4 0 0				
9	Within the Poona City and suburban Municipal and Cantonment limits or within one mile of those limits.	A. 50									
9	On all remaining land commanded by both the canals.	{ A. 40 A. 29	8 0 0	2 8 0	.....	1 8 0	6 0 0				‡ Revised rates sanctioned in Government Resolution No. 229 A. I.—1802, dated 11th October 1894.
9	Pan gardens wherever situated throughout the canals.	A. 30									
9	All lands commanded by both canals.	B. 18									
10	Do. do.	C. 12									
10	Ekrak Tank ...	12	4 0 0	2 0 0	.....	0 12 0	6 0 0				¶ In force for 5 years from 1st April 1895 to 31st March 1900. Vide Government Resolution No. 80 A. I.—179, dated 29th January 1895.
11	Krishna Canal	25	6 0 0	3 0 0	.....	1 0 0	8 0 0				
MINOR WORKS AND NAVIGATION.											
12	Khárit Cut ...	14	7 0 0	5 0 0	.....	1 0 0	6 0 0				
13	Hartála Tank ...	10	4 0 0	2 0 0	.....	1 0 0	4 0 0				
14	Mhasva Tank ...	10	4 0 0	2 0 0	.....	1 0 0	4 0 0				
15	Jámda Canals ...	16	4 0 0	2 0 0	.....	0 8 0	4 0 0				
16	Paraul Tank ...	.....	4 0 0	.....	.....	1 0 0	6 0 0				
17	Pravara River Works—Ojhar Canal††	{ (a) 8 (b) 10	4 0 0	2 0 0	3 0 0	0 8 0	4 0 0				
18	Bhátodi Tank ...	12	4 0 0	{ (c) 2 0 0 (d) 3 0 0	.....	1 0 0	4 0 0				(a) Up to 31st March 1895. (b) From 1st April 1895. (c) Up to 14th October 1895. (d) From 15th October 1895. ** Revised rates sanctioned in Government Resolution No. 40 A. I.—253, dated 7th February 1895.
19	Matoba Tank**	{ A. 25 B. 13 C. 10 Pangardens 30	6 0 0	2 8 0	.....	1 8 0	6 0 0				
20	Kásordl Tank**	{ A. 16 B. 12 C. 10	4 0 0	2 0 0	.....	0 12 0	6 0 0				
21	Bhirsuphal Tank**	10	4 0 0	2 0 0	.....	0 12 0	4 0 0				
22	Bhadalvádi do.**	10	4 0 0	2 0 0	.....	0 12 0	4 0 0				
23	Korekoon do.	6	2 0 0	2 0 0	.....	2 0 0	2 0 0				
24	Ashli do.	12	4 0 0	2 0 0	.....	0 12 0	4 0 0				
25	Revári Canal||	20	5 0 0	3 0 0	.....	1 0 0	8 0 0				
26	Upper Mán River Works||	18	4 0 0	2 0 0	.....	1 0 0	8 0 0				
27	Yeria River Irrigation Works||	18	4 0 0	2 0 0	.....	1 0 0	8 0 0				
28	Chikhli Canal||	20	4 0 0	2 0 0	.....	1 0 0	8 0 0				
29	Máhi Tank||	18	4 0 0	2 0 0	.....	1 0 0	8 0 0				
30	Muchkundi Tank§§	8	4 0 0	2 0 0	.....	1 0 0	4 0 0				
31	Nilgund do.	.....	.....	.....	.....	.....	.....
32	Gadikeri do.	.....	.....	.....	.....	.....	.....
33	Dámbal do. (1)	10	{ \$ 4 0 0 \$ 6 0 0	{ a 2 0 0 b 2 0 0	.....	0 8 0	4 0 0				
34	Medleri do. (2)	10	{ \$ 4 0 0 \$ 6 0 0	{ a 2 0 0 b 2 0 0	.....	0 8 0	4 0 0				
35	Madag do. (1)	10	{ \$ 4 0 0 \$ 6 0 0	{ a 2 0 0 b 2 0 0	.....	0 8 0	4 0 0				
36	Assundi do. (2)	10	{ \$ 4 0 0 \$ 6 0 0	{ a 2 0 0 b 2 0 0	.....	0 8 0	4 0 0				
37	Mavinkop ...	.....	.....	.....	.....	.....	.....
PROVINCIAL.											
39	Gokák Canal, 1st Section, and Storage Works†	{ (a) 16 (a) 8	{ (b) 3 8 0 (c) 3 0 0 (d) 7 0 0	{ (e) 1 8 0 (f) 2 8 0	.....	0 14 0	(g) 6 0 0				§§ In force for 5 years from 1st April 1894 to 31st March 1899—vide Government Resolution No. 236 A. I.—1845, dated 18th October 1894. § From 15th June to 15th February. ¶ " 15th October to 15th June. || " 15th June to 15th October. || " 15th October to 15th February (1) In force for 5 years from 1st April 1893 to 31st March 1898—vide Government Resolution No. 91 A. I.—741, dated 13th May 1893. (2) In force for 1 year from 1st April 1895 to 31st March 1896—vide Government Resolution No. 144 A. I.—893, dated 31st May 1895. ‡ In force for 5 years from 1st April 1893 to 31st March 1898, vide Government Resolution No. 69 A. I.—556, dated 30th March 1893. (a) This is a special rate for sweet potatoes which require water for 10 months. (b) & (c) From 15th June to 15th February. (d) " 15th October to 15th June. (e) " 15th June to 15th October. (f) " 15th October to 15th February. (g) " 15th February to 15th June.

Note.—(1) For lift irrigation half the ordinary rates are charged.
(2) Double the ordinary rates are charged as penal rates for taking water without permission.
(3) Leakage or percolation rates are the same as ordinary rates.

STATEMENT G.

Statement showing Areas and Water-rate Assessments during 1925-26 according to the system of classification adopted in fixing the Scale of Water-rates.

Number.	Name of Works.	CLASS I.— PERENNIAL.		CLASS II.— 8 MONTHS.		CLASS III.— 4 MONTHS.		CLASS III A.— SUPERIOR RABI CROPS.		CLASS IV.— MONSOON DRY.		CLASS V.— SPECIAL HOT WEATHER.		MISCELLA- NEOUS.		GRAND TOTAL.		REMARKS.	
		Area.	Assess- ment.	Area.	Assess- ment.	Area.	Assess- ment.	Area.	Assess- ment.	Area.	Assess- ment.	Area.	Assess- ment.	Area.	Assess- ment.	Area.	Assess- ment.		
MAJOR WORKS.																			
<i>Protective Works.</i>																			
1	Nira Canal	2,853	37,477	2,324	10,763	12,575	29,121	—	—	4,965	4,910	744	4,240	4	21	23,453	66,786		
2	Mhaswad Tank	368	3,923	446	2,651	2,411	5,792	—	—	66	51	163	725	1	9	3,461	12,570		
	Total	3,221	41,399	2,770	12,814	14,986	34,913	—	—	4,971	4,961	907	5,015	5	30	26,914	79,356		
	Average rate	—	12.8	—	4.63	—	2.31	—	—	—	1.00	—	5.22	—	4.82	—	5.70		
<i>Productive Works.</i>																			
6	Hathmati Canal	86	892	1,333	4,150	1,953	3,619	—	—	2	2	69	459	2	20	2,439	9,250		
6	Lower Panjira River Works	216	2,112	2.6	1,185	564	1,129	—	—	13	13	9	52	—	—	1,109	4,558		
7	Kadva River Works	277	2,206	627	2,583	702	1,462	—	—	4	4	12	61	—	—	1,522	6,389		
	Palkhed Canal	69	602	207	1,138	189	410	—	—	5	5	4	29	—	—	329	2,159		
	Ojhar Timala Canal	13	104	137	546	178	372	—	—	4	51	7	48	—	—	260	1,082		
	Wadali Canal	65	531	27	118	206	497	—	—	21	12	4	18	—	—	364	1,150		
8	Pravara River Works—Lakh Canal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Within the Poona City suburban Municipal and Cantonment limits or within one mile of those limits.	456	21,726	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
9	Mutha Canal	3,156	119,235	—	—	—	—	—	—	1,520	2,229	—	—	1	393	8,136	1,77,042		
	On all the remaining land commanded by both canals.	654	13,793	422	3,341	815	2,424	—	—	—	—	—	—	—	—	—	—		
	Pan gardens wherever situated throughout the canals	A	31	961	—	—	—	—	—	—	—	—	—	—	—	—	—		
	All lands commanded by both canals	B	613	10,377	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Do.	C	353	4,161	—	—	—	—	—	—	—	—	—	—	—	—	—		
10	Ekrak Tank	515	6,093	768	3,053	699	1,481	—	—	440	529	103	1,076	—	87	2,559	19,291		
11	Krishna Canal	1,480	24,255	1,476	7,021	157	574	—	—	—	—	111	855	—	—	3,294	38,463		
	Total	8,096	211,743	5,411	23,177	5,357	11,592	—	—	2,013	2,869	396	2,625	61	491	21,203	2,52,789		
	Average rate	—	26.4	—	4.25	—	2.21	—	—	—	2.42	—	6.63	—	9.65	—	11.9		
MINOR WORKS AND NAVIGATION.																			
12	Ehri Cut	5	52	3,003	14,175	15	65	—	—	—	—	92	546	11	16	3,126	14,554		
13	Hartala Tank	3	25	—	—	5	11	—	—	—	—	—	—	—	—	—	—		
14	Mhasva dr.	18	149	2	9	26	71	—	—	—	—	—	—	—	—	—	—		
15	Jimda Canals	376	6,019	163	425	704	1,444	—	—	296	137	47	189	—	—	1,472	6,212		
16	Parsul Tank	27	145	3	11	136	354	—	—	10	65	21	127	—	—	222	892		
17	Pravara River Works (Ojhar Canal)	293	1,954	69	275	424	858	887	2,617	274	138	23	138	6	16	1,966	6,186		
18	Shitadi Tank	54	647	95	389	727	2,257	—	—	—	—	1	7	—	—	877	3,272		
	A	466	6,462	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	B	1	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	C	4	39	98	588	312	790	—	—	343	514	—	—	—	—	1,169	6,971		
	Pan Gardens	4	136	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
20	Kienoli do.	—	—	—	—	3	1	—	—	—	—	—	—	—	—	—	—		
21	Enarsopal do.	49	390	17	64	55	1,492	—	—	106	197	—	—	2	11	729	2,964		
22	Ehalsadi do.	66	659	24	94	318	1,154	—	—	235	334	2	10	1	9	249	2,122		
23	Koregaon do.	41	247	119	237	149	357	—	—	3	6	—	—	—	—	543	829		
24	Asoti do.	108	1,299	164	691	822	1,789	—	—	242	151	25	134	—	12	1,326	5,087		
25	Bevri do.	55	1,789	415	2,159	647	2,490	—	—	2	5	52	349	—	—	1,326	5,087		
26	Upper Man River Works	96	1,727	582	2,222	749	1,490	—	—	107	115	109	1,109	4	9	2,897	19,073	Includes	
27	Yera River Irrigation Works	78	1,379	1,680	4,311	1,359	2,721	—	—	—	—	—	—	—	—	—	—		
28	Chikhi Canal	27	425	216	891	92	181	—	—	81	31	85	618	—	—	377	1,629		
29	Maini Tank	73	1,343	569	2,351	424	981	—	—	52	54	4	89	—	2	1,198	4,728		
30	Muchkundi do.	4	32	9	34	7	10	—	—	—	—	—	—	—	—	29	82		
31	Nilgund do.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
32	Gadhari do.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
33	Danbal do.	10	76	—	—	36	71	—	—	—	—	—	—	—	—	—	—		
34	Mellari do.	29	902	3	9	89	177	—	—	22	33	—	—	—	—	142	529	Exclusive	
35	Madar do.	44	442	84	468	784	1,341	—	—	17	17	—	—	—	—	253	2,572	of Rs. 29	
36	Asundi do.	3	29	83	1.4	59	121	—	—	4	5	23	8	—	—	142	431	on account	
37	Mavinkap do.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	of remain-	
	Total	1,791	25,502	6,741	29,517	8,483	29,162	887	2,617	1,721	1,729	460	3,424	32	87	29,470	82,200		
	Average rate	—	14.2	—	4.38	—	2.2	—	3.15	—	1.99	—	7.44	—	2.72	—	4.9		
PROVINCIAL.																			
29	Golden Canal, 1st Section, and storage Works...	1.4	2,611	7.9	2,715	1,735	3,460	—	—	1,369	1,208	53	315	21	60	4,940	89,590		
	Grand Total	12,292	2,51,569	15,774	65,253	20,929	79,443	887	2,617	10,057	10,757	1,618	11,389	331	1,389	7,047	4,49,999		
	Average rate	—	21.2	—	4.24	—	2.27	—	3.17	—	1.01	—	6.26	—	3.9	—	6.10		

Note.—The difference between the figures of total areas and assessments in this statement and those in Statements F-E to IV-V is due to differences in treatment of the same in some cases, and in others to the fact that the figures in this statement are more or less hypothetical and are arrived at on the assumption that certain areas are assessed at certain rates.

STATEMENT II.

Statement showing Operations of the year 1895-96.

No.	Names of Works.	Amount of Estimate, Direct and Indirect.	CAPITAL OUTLAY, DIRECT AND INDIRECT.		LENGTH OF (AS EXCLUDED).		AREA UNDER COMMAND.		Rain-fall.	Discharge of canal at head Cubic feet per second.	AREA.		Amount of gross Assessment.	Realizations.	Working Expenses.	Net Revenue.	REMARKS.	
			During 1895-96.	To end of 1895-96.	Canal.	Distributaries.	Gross.	Irrigable at present.			Applied for.	Irrigated.						
		Rs.	Rs.	Rs.	Miles.	Miles.	Acres.	Acres.			Acres.	Acres.	Rs.	Rs.	Rs.	Rs.		
MAJOR WORKS.																		
<i>Protective Works.</i>																		
1	Nira Canal	*89,40,397	55,503	56,51,480	06	132.46	274,447	56,640	23.83	2.18	17,438	23,453	88,302	86,884	50,978	85,906	*Includes Interest charge.	
2	Mhasvad Tank	*27,81,496	26,621	20,72,506	00.25	34.00	1,29,045	45,813	27.78	35.84	8,178	3,481	15,190	15,794	15,822	- 28		
	Total	1,17,33,803	82,124	77,23,986	166.25	166.46	403,492	102,453	...	...	20,616	26,934	1,03,498	1,02,678	66,800	33,878
<i>Productive Works.</i>																		
5	Hathmati Canal	*8,57,992	-557	5,17,838	21	30	44,744	8,000	22.76	68	2,692	3,430	10,419	11,520	5,762	5,758	Includes 1.762 acres of Bagayat. 2/	
6	Lower Panjhra River Works	*9,03,711	2,005	4,61,469	.....	45	13,117	12,027	27.82	15.37	954	12,806	18,806	18,409	7,998	10,411	
	Wadhni Canal	*7,01,730	86	3,49,690	.....	.....	.....	.....	.....	.....	.....	.....	83	83	1,812	-1,279
	Palkhed Canal	*4,90,493	7	2,36,533	11	14.56	.....	.....	.....	.....	.....	.....	.....	.....	5,739	1,579
7	Kadva River Works... {	*17,785	420	.....	4.50	.....	28,832	9,887	29.92	21.55	1,521	1,622	7,108	7,118	1,118	468
	Offhar Tantal Canal. {	*63,461	931	30,255	8.02	.....	8,486	2,432	27.77	4.23	470	523	2,194	1,686	1,118	468	
	Wadhni Canal	*7,60,764	.....	3,71,891	23	.....	20,913	11,280	17.28	21.54	309	830	1,007	1,113	1,272	-159
8	Pravara River Works—Lakh Canal	*88,85,199	31,639	65,83,127	88	0.37	94,087	16,800	32.14	151.47	9,757	8,138	2,98,470	2,70,447	77,589	1,08,858		
9	Mutha Canals	*21,35,580	.....	18,40,386	48	.....	17,152	14,562	31.09	30.85	2,192	2,589	25,576	26,421	16,461	10,960
10	Ekrak Tank	*18,60,896	.....	8,61,692	63.87	.....	28,327	26,453	28.41	44.74	8,201	3,204	89,076	80,093	12,987	18,510
11	Krishna Canal ... ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total	1,74,62,920	35,131	1,03,71,463	267.99	165.73	267,713	104,140	...	...	21,531	23,055	4,06,145	3,76,069	1,38,875	2,37,194
	Total, Major Works	2,91,96,723	1,17,255	1,85,95,440	421.24	332.10	671,205	208,602	...	...	42,147	49,980	5,09,643	4,73,747	2,05,675	2,73,072
MINOR WORKS AND NAVIGATION.																		
12	Khari Cut	1,78,850	1,81,848	23	7	17,800	3,000	31.82	9.71	2,068	3,126	15,175	11,886	5,209	6,087	Acres on which consolidated assessment is levied.	
13	Hartala Tank	75,040	.....	79,382	.....	5.50	684	415	16.01	0.00	86	70	1,127	1,150	394	765
14	Mhasva Tank	1,40,015	.....	1,38,956	.....	.....	4,647	1,700	31.01	0.08	53	54	557	707	1,121	-414
15	Jindra Canals	10,88,610	523	10,40,000	39	75	46,288	5,000	24.11	33.22	1,442	1,472	12,567	11,625	10,082	1,543		
16	Parsul Tank	2,23,612	-2,604	2,16,754	.....	4.75	3,337	1,000	18.93	0.04	227	252	1,160	1,080	70	70	
17	Pravara River Works—Ojhar Canal	3,48,211	26	3,50,276	10	21	23,724	14,768	24.57	31.57	2,436	1,806	6,847	5,453	14,218	-8,765		
18	Bhatodi Tank	3,78,278	.....	3,70,707	4.50	5.50	16,126	12,124	24.65	4.80	679	877	4,988	6,014	8,955	-2,941	
19	Matoba do.	2,10,500	.....	2,01,422	.....	17	10,796	2,000	17.67	0.20	1,550	1,168	9,037	9,216	8,014	0,202
20	Kasurli do.	45,500	.....	45,500	.....	1.75	697	473	22.21	.....	1	3	54	46	8,708	-8,720
21	Shirsuphal do.	2,24,568	865	2,24,568	.....	12.50	4,600	2,500	16.62	3.67	688	720	2,237	509	2,602	-2,183	
22	Bhagdavadi do.	2,28,724	8	2,27,422	.....	9.75	3,000	2,400	17.75	6.11	938	836	2,299	1,693	1,968	-272	
23	Koragun do.	42,040	.....	39,189	3.75	.....	Not known.	Not known.	43.95	1.86	362	314	890	984	815	160
24	Ashli do.	8,34,927	.....	831,103	.....	2	17,882	14,476	29.55	9.31	1,333	1,323	4,545	4,817	3,918	899
25	Revadi Canal	59,448	382	59,811	10.25	.....	3,818	3,624	31.90	6.08	1,433	1,224	5,731	5,016	3,404	1,562	
26	Upper Man River Works	4,44,531	889	4,30,451	17.50	6.50	8,443	7,623	28.28	8.25	1,567	1,616	6,750	6,410	5,193	1,217		
27	Yerla River Irrigation Works	7,27,708	8,160	6,04,411	28.00	4.00	11,234	10,680	28.60	7.78	2,386	2,607	10,440	12,547	6,418	6,120		
28	Chikhli Canal	57,442	.....	57,442	6.50	.....	1,871	1,478	22.36	3.67	405	377	1,701	3,353	967	1,380
29	Maini Tank	3,00,791	624	3,00,434	9.25	7.58	4,870	4,625	20.50	4.30	1,077	1,198	4,810	6,896	8,320	8,076		
30	Muchkund do.	1,68,430	.....	1,58,707	5.50	2.25	5,670	3,417	12.59	Not known.	30	20	535	527	292	235	
31	Nalgund do.	9,022	.....	9,027	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27	-27
32	Gadikeri do.	9,238	.....	8,279	.....	.....	697	337	23.67	.....	.....	1,337	1,087	199	1,758	
33	Dambal do.	64,906	.....	63,980	.....	3.27	4,595	4,525	14.58	1.18	48	144	1,538	1,759	1,008	661
34	Modori do.	81,705	.....	81,302	.....	5.04	1,916	1,652	16.70	1.27	131	145	522	570	920	-350
35	Madang do.	2,49,497	.....	1,67,598	9	.....	2,351	2,188	21.50	4.07	917	933	2,378	2,147	1,600	487
36	Asundi do.	74,346	.....	74,905	.....	4.68	1,800	1,600	16.87	1.14	109	142	1,069	1,285	964	271
37	Mavinkop do.	31,817	.....	30,847	.....	.....	872	617	No gauge	.....	.....	1,185	1,868	186	1,677	
	Total	68,06,470	8,710	61,50,560	208.35	202.85	106,213	102,422	...	...	21,164	20,470	1,00,618	97,073	82,020	16,042
PROVINCIAL.																		
38	Gokak Canal	*13,77,878	16,707	12,11,583	16.10	27.80	18,868	7,200	24.92	20.02	4,000	4,464	21,050	23,020	6,532	10,438		
	GRAND TOTAL	3,00,61,071	1,42,091	2,59,69,591	618.60	562.34	886,068	310,224	21.54	...	67,811	74,928	6,82,211	5,98,830	2,04,287	8,04,552		

XXXIX

PART I.

MAJOR WORKS.

PROTECTIVE IRRIGATION WORKS.

(1).—NIRA CANAL.

On the 31st March 1895 the culturable area commanded by the distributaries in operation was 183,862 acres, the same as in the previous year, no fresh area having been brought under command.

2. The total area irrigated during the year was 23,453 acres.

The following table gives a comparison of the figures of the previous five years with those of the present year:—

Years.	Kharif.	Rabi.	Total.	Water-rate Assessment.
	Acres.	Acres.	Acres.	Rs.
1890-91... ..	8,920	7,993	16,913	36,226
1891-92... ..	9,595	19,268	28,863	66,390
1892-93... ..	11,104	7,142	18,246	60,036
1893-94... ..	13,556	10,947	24,503	83,703
1894-95... ..	12,349	16,021	28,370	90,864
1895-96... ..	9,953	13,500	23,453	86,786

3. The total area irrigated was 4,917 acres less than in 1894-95. The kharif season showed a decrease of 2,396 acres again, chiefly due to a reduction in the area of sugarcane. The rabi season showed a decrease of 2,521 acres, due to there being rain at more favourable times than last year. The explanation given in paragraph 3 of the report on the Mutha Canals regarding the reduction in area of sugarcane applies also to the Nira Canal.

4. The excess of the measured area over that applied for, as shown in the following table, was 6,015 acres. The difference is due to the fact that the cultivators are in the habit of entering in their applications only the minimum area that can be charged for, and irrigating much more. Measures are being taken to check this:—

Season and year.	Applied for.	Irrigated.	Difference more.	Percentage of difference on area applied for.	
	Acres.	Acres.	Acres.		
<i>Kharif.</i>					
1894-95	11,039	12,349	1,310	.....
1895-96	8,639	9,953	1,314	.....
<i>Rabi.</i>					
1894-95	9,933	16,021	6,088	.....
1895-96	8,799	13,500	4,701	.....
Total ...	1894-95 ...	20,972	28,370	7,398	35.28
	1895-96 ...	17,438	23,453	6,015	34.49

5. The rainfall during the rabi season was scanty but fell at favourable times. The kharif rain was good. The comparison with the previous two years is as follows:—

(1)—NIRA CANAL.

Years.				Kharrif.	Rabi.	Total.
				Ins. cts.	Ins. cts.	Ins. cts.
1893-94	...	...	...	10 20	5 63	15 83
1894-95	...	...	...	13 62	4 13	17 75
1895-96	...	...	...	19 63	4 20	23 83

The following table shows the total rainfall of the kharif and rabi seasons at different stations along the canal :—

Stations.	1895-96.						Averages.	REMARKS.
	Kharrif.		Rabi.		Total.			
	Ins.	cts.	Ins.	cts.	Ins.	cts.		
Pimpra ...	15	09	5	73	20	82	23 10	Average of 11 years.
Wadgaon ...	17	03	4	93	21	96	23 94	Do.
Pandhara ...	18	90	4	14	23	04	23 01	Do.
Báramati ...	18	71	4	00	22	71	22 86	Do.
Sansar ...	16	24	5	04	21	28	23 70	Do.
Haturna ...	19	78	3	28	23	06	24 59	Average of 9 years.
Nimbgaon ...	19	82	2	28	22	10	22 09	Do.
Bánda ...	31	45	4	25	35	70	24 30	Average of 4 years.
Total ...	157	02	33	65	190	67	187 59	
Average ...	19	63	4	20	23	83	23 45	
Virwadi bungalow ...	13	00	4	63	17	63	21 08	Average of 11 years.
Indápur ...	22	57	5	87	28	44	25 17	Do.

6. The first flood in the Nira river did not occur until the 8th August and water was not drawn off from the Bhátghar reservoir until the 19th November 1895. Water was successfully stored to $4\frac{1}{2}$ feet above weir crest, giving a storage of 4,600 millions of cubic feet of water, which proved largely in excess of requirements.

7. The monthly average discharge at the head of the canal is given below. The first column shows the average struck on the number of days the canal was actually open, while the second column gives the mean average discharge for the month ascertained by dividing the total quantity of water by the number of days in the month :—

Months.	Average actual discharge taken on number of days.	Mean discharge taken on full number of days in month.
April ...	154	129
May ...	196	152
June...	141	117
July...	270	270
August ...	279	279
September ...	197	118
October ...	214	159
November ...	261	174
December ...	278	278
January ...	239	239
February ...	181	131
March ...	157	127
Total ...	2,567	2,173
Monthly Average ...	214	181

8. The working expenses, including direct and indirect charges, amounted to Rs. 50,978.

The following table shows the comparison between the working expenses of 1894-95 and 1895-96 :—

Names of Works.	Main-tenance and Repairs.	ESTABLISHMENT.		Tools and Plant.	Refunds of Revenue.	Leave and Pension Allowances.	Share of Collection Charges.	Total.
		Executive.	Direction.					
1894-95.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Nira Canal ...	24,240	17,067	4,633	608	37	3,038	4,002	53,625
1895-96.								
Nira Canal ...	18,661	22,382	1,750	538	...	3,378	4,269	50,978

The decrease in expenditure is due chiefly to the pay of Inspectors and Pátkaris being charged to "Establishment" instead of to "Works" as formerly. With 96 miles of main canal in operation, this gives a rate of Rs. 531.02 per mile, and it includes the maintenance of 132 miles of distributaries. The cost of maintenance per acre irrigated was more than last year owing to the area under irrigation being less this year, the rate being Rs. 2.17 against Rs. 1.89 in the previous year. The working expenses included a sum of Rs. 1,952 for special repairs, which consisted of strengthening the banks by puddled earth cores in places where they were found to be unsafe or leaky, due to the nature of the soil of which they were originally made.

9. The gross revenue from all sources amounted to Rs. 88,302, made up of Rs. 86,786 for water-rates assessed on the total irrigated area of 23,453 acres and Rs. 1,516 from other sources. The rate of assessment thus works out at Rs. 3.70 per acre against Rs. 3.20 of the previous year. Deducting Rs. 50,978 for working expenses and Rs. 169 for remissions sanctioned during the year, from the gross revenue, Rs. 88,302, the net revenue was Rs. 37,155, or Rs. 1,933 less than that of the previous year.

10. The expenditure on plantations was Rs. 1,334, including Rs. 558 for plantations at head-works shown in the monthly accounts as expenditure under the head Miscellaneous. An expenditure of Rs. 255 was also incurred against Capital Account on demarcating and on planting bábul trees along the canal. The receipts from plantations amounted to Rs. 403. The trees were not counted during the year.

11. The cost of measuring the irrigated area was Rs. 1,820, giving a rate of 1 anna and 3 pies per acre against 1 anna in the previous year.

12. The figures in Statement I—E showing the duty of water during the kharif and rabi seasons show merely the average of all sorts of crops actually irrigated per cubic foot of discharge at the head of canal for the two seasons, but give no guide to the actual quantity of water required for any given acreage of a certain class of crops. The duty of water for the whole discharge of the canal for special periods has not been taken this year owing to misunderstanding on the part of the Baramati and Nimbgaon sub-divisional officers.

13. During the year special experiments to ascertain the quantity of water consumed by wheat and ground-nut crops were carefully carried out. The water gauging for these was carried on, under the personal supervision of the sub-divisional officer, by means of a triangular notch at the field in question, the supply being kept regular by means of the head regulator of the distributary from which the water was drawn.

The results of each experiment are tabulated below :—

Area under command.	Number of waterings.	Total quantity of water given.	Average of watering.	Period of irrigation.	Duty per cubic foot at field.	Outturn.
A. g.		Cubic feet.	Cubic feet.	Days.	Acres.	Lbs.
1 3 Khapla wheat...	7	63,055	9,008	83	122	2,652
1 23 Ground-nut ...	4	92,580	23,145	134	197	5,360

14. The duty on the distributaries, water being gauged at the head of the distributary, is shown in the following table. The results however, in the absence of special establishment to record the discharges, must be considered only approximate :—

Number of Distributary.	Quantity of water passed between 10th December 1895 to 10th January 1896.	Acres.	The duty of water for the base of 31 days.	DETAILS OF CROPS WATERED.					Total Number of days open.	REMARKS.
				Perennial.	Eight months.	Rabi 2-4.	Rabi 4-8.	Total.		
	Cubic feet.		Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		
No. 8...	3,776,882	224	159	109	3	102	10	224	17	Almost all perennial crops were ripe and very little water was required.
No. 13...	2,712,838	383	381	103	...	260	20	383	23	
No. 16...	3,583,440	317	236	13	21	274	9	317	21	

15. The total area under command was 183,862 acres, and of this 5·41 per cent. was irrigated during the kharif season and 7·34 per cent. during the rabi season.

16. The most noticeable feature of the year was the continued decrease in sugarcane plantation, the cause being as explained in para 3. of the report on the Mutha Canals. The eight and four months crops area is a good deal less than in the previous year owing to opportune rainfall. During the year the depth of water admitted into the canal was 6·25 feet, and under this depth the banks stood well, except in those parts of the leaky and high banks of the Kara and the Nimbori, which had not yet been strengthened and made water-tight by puddle hearting. This work was however practically completed during the year.

Several portions of roads available for the transport of produce which had been damaged by canal leakage were put in repair and by degrees others will be taken in hand.

(2).—MHASVAD TANK.

The rainfall for the year under report was 27·78 inches (kharif 22·73 and rabi 5·05 inches) against 15·71 inches of the previous year (kharif 11·29 and rabi 4·42 inches), and was seasonable.

2. The lowest water level in the tank was R. L. 1,920·85 prior to replenishment, with a depth of water over the sill of canal sluice of 5·15 feet. The tank commenced to fill from 28th of May 1895. On 15th September 1895 the cut in the waste weir began to overflow, and continued to do so till 15th November 1895.

3. The area irrigated during the year was 3,481 acres (kharif 1,233 and rabi 2,248) against 4,226 acres of the previous year (kharif 1,207 and rabi 3,019). The area applied for was 1,195 acres and 1,983 acres of kharif and rabi respectively, the excess of area applied for over area actually irrigated being due to the cultivators being ignorant of the areas of their fields.

4. The assessment on account of water-rates amounted to Rs. 12,570 against Rs. 13,869 of the previous year. The gross revenue from all sources was Rs. 15,196 against Rs. 16,134 of the last year. The decrease is due to less area irrigated under "Rabi" during the year.

5. The figures of the previous years since the opening of the canals are given in the following statement:—

Years.	Kharif.	Rabi.	Total.	Water-rate Assessment.	Gross Revenue from all sources.	Working Expenses.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
1886-87	617	727	1,344	1,030	1,825	11,812
1887-88	1,717	2,144	3,861	5,897	6,883	15,618
1888-89	2,965	3,139	6,104	12,733	12,875	13,269
1889-90	4,074	2,718	6,792	14,969	16,327	12,285
1890-91	4,081	3,025	7,106	13,541	14,241	12,729
1891-92	3,514	4,760	8,304	25,457	26,104	12,633
1892-93	3,561	1,436	4,997	19,997	20,613	15,121
1893-94	3,907	1,376	5,283	21,492	22,490	22,060
1894-95	1,207	3,019	4,226	13,869	16,134	28,460
1895-96	1,233	2,248	3,481	12,570	15,196	15,822

There was an increase of 26 acres in kharif and a decrease of 771 acres in rabi as compared with the previous year. The decrease was due to favourable rainfall during the rabi season. The incidence of water-rate per acre irrigated was Rs. 3.61 against Rs. 3.28 of the previous year.

6. The rainfall over 480 square miles of catchment area of the tank was gauged at five stations. The average rainfall from 1st June to 31st October 1895 was 23.99 inches, which gave 26,752 million cubic feet of water on the catchment area of the tank. The run-off is calculated to have been 0.088 of the rainfall from 1st June to 31st October 1895, and 0.144 of the rainfall from 1st June to 15th September 1895, on which date the cut in the waste weir began to overflow. The supply in the tank at R. L. 1,934.20 (level of cut in the waste weir), or 18.50 feet above the sill of the canal sluice, was sufficient to meet the requirements of irrigation during the year. As there was not sufficient water in the tank at the commencement of the rains, water applications for dry and wet kharif crops were not admitted till the end of July 1895. The waste weir is being rebuilt the remaining 2 feet during the current year (1896-97), and it is hoped that the water-supply thus increased will lead to improvement in revenue.

7. The working expenses, including indirect charges, amounted to Rs. 15,822. The expenditure on maintenance and repairs amounted to Rs. 6,693, inclusive of certain special repairs. The charges on account of raising the waste weir 2 feet high were Rs. 2,273, which are also included in the working expenses. The total length of canals, including branch canals and distributaries, is 94 miles, which gives a charge for maintenance and repairs at Rs. 71 per mile against Rs. 62.68 of the previous year. The increase is due to the special repairs referred to above, which cost Rs. 1,100.

8. The area irrigated was measured at a cost of Rs. 840, which gives a rate of annas 3 and pies 10 per acre irrigated.

9. No special experiments were made during the year on this tank to ascertain the duty of water.

10. No new plantation was made during the year. It is proposed in future to divide the tank contour into 30 blocks, and when they are well grown with bábul and other trees,

to sell one block annually for clearance. The cleared block will be ploughed up and sown with bábul seed broadcast, immediately after clearance; the same system will be adopted for canal plantations, as far as practicable.

The number of trees above and below 5 feet in height on the tank and canals at the end of March 1896 were as under :—

Names of Trees.	Above 5 feet.	Below 5 feet.
	No.	No.
Bábul	11,984	6,171
Nimb	847	922
Mango	458	173
Tamarind	9	16
Sandal	4	12
Bori	496	478
Guava	20	1
Shindi	30	5
Miscellaneous	3,853	463
	17,701	8,241
Total	25,942	

11. The following figures show the storage and the loss of water by evaporation and absorption :—

	Millions of Cubic feet.
Volume of water in the tank on 31st March 1895 ...	613·85
Quantity received into the tank up to date on which water flowed over the cut in waste weir	1,867·97
	<u>2,481·82</u>
<i>Deduct—</i>	
Balance in tank on 31st March 1896	993·26
Quantity of water discharged through canals, and leakage (measured)	1,239·68
	<u>2,232·94</u>
Loss due to evaporation and absorption	248·88

PRODUCTIVE PUBLIC WORKS.

(5).—HA'THMATI CANAL.

The rainfall was 21·80 inches in the kharif and 0·96 inches in the rabi season, against 50·74 and 0·21 inches respectively during the previous year, the average of the last five years being as follows :—

	Ins.	cts.
Kharif	21	80
Rabi	0	96

2. The areas irrigated are compared with those of 1894-95 in the table below :—

	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.
1894-95	1,797	2,402	4,199
1895-96	1,495	1,944	3,439

Assessments.

3. The assessments were as follows :—

		Kharif.	Rabi.	Total.
		Rs.	Rs.	Rs.
1894-95	...	5,637	4,900	10,537
1895-96	...	5,046	4,074	9,120

4. The decrease in the areas irrigated and in the assessments both for the kharif and rabi crops was due to insufficient supply in the canal consequent on scanty rainfall. It is to be noted that the unfavourable monsoon did not increase the area of kharif irrigation. As pointed out at page 8 of the Revenue Report for the year 1893-94, the area irrigated seems now to depend on the discharge available in the canal, and not on the scantiness of the rainfall during the monsoon. As suggested in the report for the year mentioned, this is a healthy sign showing that the cultivators now look steadily to the canal for the production of kharif crops.

Remissions.

5. Of the total of Rs. 153 shown in the accounts as remissions, Rs. 43 were on account of free grants.

6. The amount of outstanding balance at the close of the year for the kharif season was Rs. 837-12-0; out of this the following recoveries have been made :—

			Rs.	a.	p.
April 1896	...	...	567	8	0
June 1896	...	...	210	10	0
July 1896	...	...	48	6	0
Total			*826	8	0

Area applied for.

7. The areas applied for and irrigated were as under :—

		Kharif.	Rabi.	Total.
		Acres.	Acres.	Acres.
Applied for	...	1,308	1,284	2,592
Irrigated	...	1,495	1,944	3,439

The difference is due to the inability of cultivators to state exactly what areas they will irrigate, and also to the fact that lands within 200 yards of the canal, which benefit by percolation, are assessed, no applications for water being, from the nature of the case, necessary for them.

8. The miscellaneous revenue realized during the year amounted to Rs. 1,299 against Rs. 1,196 in the previous year.

9. The areas irrigated were measured by the ordinary establishment employed on the canal (charged to Revenue Establishment) at a total cost of Rs. 141 or 8 pies per acre irrigated, against 6 pies per acre during the previous year as shown below :—

Years.	Cost of Establishment debited to Revenue management.	Percentage the Cost bears to the gross assessed Revenue.	Incidence of the Cost per Acre irrigated.	REMARKS.
	Rs.		Rs. a. p.	
1894-95 ...	141	1.20	0 0 6	
1895-96 ...	141	1.35	0 0 8	

10. The percentage of revenue establishment on assessed revenue and the incidence of cost per acre irrigated are a little higher than those of the previous year, and are due to the decrease in the areas irrigated and revenue assessed.

* Includes Rs. 5-4-0, amount received in excess to be refunded as per Treasury Officer's report.

Average water-rate. 11. The average water-rate per acre irrigated during the year was Rs. 2·65 as compared with Rs. 2·50 during the previous year.

Working expenses. 12. The working expenses of the year as compared with those of the previous year were as follows :—

Years.	Extensions and Improvements.	Maintenance and Repairs.	Establishment, including Indirect Charges.	Tools and Plant.	Total.
		Rs.	Rs.	Rs.	Rs.
1894-95	...	4,331	1,750	6	6,087
1895-96	...	3,666	2,029	67	5,762

13. The rate per acre irrigated was Rs. 1·68 for the year under report against 1·45 in the previous year—an increase of 0·23. The average amount spent on silt clearance from the commencement, including the year under report, was Rs. 575, or Rs. 11·27 per mile on the total length of 51 miles of the canal and distributaries.

14. No reliable data can be given regarding the duty of water. The canal has been gauged for a series of years and the result shows that about 50 per cent. of the water is lost by absorption and evaporation in the first ten miles, where there is practically no irrigation; thus the average discharge gauged at the head during the kharif season was 85·50 cubic feet per second; out of this only about 43 cubic feet per second reached the first distributary; on this discharge the duty works out to 35 acres per cubic foot of discharge against 58 acres in the previous year. In the rabi season, the average discharge at the head for the year was about 72 cubic feet per second, the area irrigated being 1,944 acres; allowing the same percentage for loss by absorption, the result is 54 acres per cubic foot as against 77 acres for the previous year.

Sugarcane. 15. The following table compares sugarcane cultivation for the past three years :—

	Acre.
1893-94	17
1894-95	33
1895-96	84

The increased area of sugarcane cultivation is a very favourable feature.

(6).—LOWER PANJRA RIVER WORKS.

These works have been in operation for 24 years.

Gross and irrigable area. 2. The gross area under command is 13,117 acres, of which the area irrigable at present is 12,627 acres.

3. The source of supply of water is principally the Pánjhra river. If the natural supply of the river falls short of requirements, it is supplemented from the Mukti Tank storage, Source of supply. During the year under report the river supply was found deficient

for 46 days in the hot season,
for 6 days in the monsoon, and
for 14 days in the rabi season ;

Total 66 days.

4. The available storage in the tank at the commencement of the year was 237·56 million cubic feet, which, after being drawn upon for 46 days to the extent of a daily discharge varying from 25·37 to 7·50 cubic feet per second, fell to 138·16 million cubic Tank supply.

feet before the tank had its first replenishment on 19th June. It filled on 21st September 1895. At the close of the year the storage in the tank was 252.96 million cubic feet.

5. The area irrigated during the year amounted to 2,862 acres. Of this, 1,762 acres are classed as *bágáyat*, with a consolidated assessment for land and water, while the balance is classed for land only, separate water rates being charged. Of the *kayam bágáyat*, 2 acres were lying fallow at Nimkhedi.

6. In the following table the year's irrigation is given by seasons :—

	Kharif.			Rabi.			Total.		
	Acres.			Acres.			Acres.		
Mámul <i>bágáyat</i> land	1,059	...	703	...	1,762	...	...	...
Dry crop land	534	...	566	...	1,100	...	...	...
Total	1,593	...	1,269	...	2,862	...	...	...

The area of *mámul bágáyat* is fixed under the settlement, but the remainder of the area under irrigation fluctuates according to the nature of the rainfall and the inclination and means of the irrigators. During the year under report there was an increase of 72 acres in the latter class of irrigation, due to extended cultivation of sugarcane, wheat, and ground-nut.

7. In connection with the *mámul bágáyat* of the Mudhi and Mandal villages the anomaly resulting from the operations of the revision survey, referred to in paragraph 7 of the last year's report, still remains unsettled.

8. The rainfall during the year was gauged at two stations in the tank catchment, and is recorded as under :—

	Kharif.			Rabi.			Total.		
	Ins. cts.			Ins. cts.			Ins. cts.		
Sadgaon	30 90	...	...	...	30 90	...	...	...
Dahiana	22 89	...	1 85	...	24 74	...	...	...
Total	53 79	...	1 85	...	55 64	...	...	...
Average	26 89	...	0 93	...	27 82	...	...	...

the total being 51 per cent. in excess of the quantity gauged at the dam site in the previous year.

9. The following is the classification of the areas irrigated outside the *bágáyat* limits during the year according to the rates levied :—

	Kharif.		Rabi.		Total.	
	1895.	1894.	1895.	1894.	1895.	1894.
	1 Perennial ...	216	201	2	10	218
2 Eight months ...	296	234	...	3	296	237
3 Four do. ...	...	1	564	552	564	553
4 Monsoon ...	13	17	...	...	13	17
5 Hot weather ...	9	10	...	...	9	10
	534	463	566	565	1,100	1,028

(6).—LOWER PA'NJRA RIVER WORKS.

Gross revenue.	10. The year's assessments amounted to		
	Rs. 18,396 as under :—		
			Rs.
On old irrigation or káyam bágáyat land	...	...	13,036
On new irrigation or "dry crop" land...	...	...	4,515
Miscellaneous ...	...	...	845
		Total ...	18,396

as compared with Rs. 17,759 of the previous year. The increase of Rs. 637 was due to more irrigation of "dry crop" land especially in the kharif season.

11. The average rates per acre were :—

				Rs. a p.
Old irrigation...	...	...	...	7 6 5
New irrigation	...	...	...	4 1 8

Remission. 12. There were no remissions during the year.

13. The realizations amounted to :—

				Rs.
Water-rates on old irrigation	...	...	...	6,248
Irrigation share on land revenue	...	...	...	6,788
Water-rates on new irrigation	...	...	...	4,527
		Total water-rates ...	...	17,563
Revenue from other sources...	...	...	...	845
		Total ...	...	18,408

14. The unrealized balance of assessed water-rates is Rs. 58 only, in addition to the rabi assessment of Rs. 1,147, which was sent for realization after the close of the year under report. Measures are being taken to effect the recovery of the sum of Rs. 58 remaining unrealized.

15. The following table contains a comparison of the areas for which applications for water were received and the areas actually assessed :—

		Kharif.	Rabi.	Total.
		Acres.	Acres.	Acres.
Applied for	...	478	476	954
Assessed	...	534	566	1,100
Difference	...	56	90	146

The difference is due mostly to the "jiráyat" portions (*i. e.* portions classed as 'dry crop') of the "káyam bágáyat" (*i. e.* land classed as permanent garden land) in Mudhi and Mandal, which are watered without applications. The cause of this has been explained in previous reports.

16. The cost of measurement of crops irrigated in dry crop land during the year was Rs. 36-11-1 against Rs. 41-12-8 of the previous year, and the rate per acre 6 pies against 8 pies.

17. The working expenses of the year amounted to Rs. 7,998 against Rs. 8,569 last year. These being deducted from the gross assessed revenue, the year's net earnings amount to Rs. 10,398.

18. No special observations of the duty of water were taken during the year.

19. The following figures represent the calculated loss by evaporation and absorption from the Mukti tank, after making deduction for leakage gauged below the dam :—

Evaporation and absorption.

Kharif Season—			
April, May and June, 70 days...	...	...	2.18 feet.
Rabi Season—			
November-December 1895 and January 1896, 92 days...			1.245 „
Hot Weather—			
February and March 1896, 60 days	...	...	1.409 „
		Total ...	<u>4.834 „</u>
	Daily average loss ...		<u>0.0218 „</u>

20. The number of trees on this work at the close of the year was 4,041 ;
 Plantation. 70 trees such as bamboo, nimb, moho, mangoes, &c.,
 were sold by auction, and 15 plants of sorts were
 destroyed by white ants and by the excessive heat in the hot season.

The expenditure on plantations during the year was Rs. 262, which raise
 the total expenditure on this head up to the end of the year to Rs. 7,301.

(7).—KADVA RIVER SYSTEM.

The Wághad tank has been in operation for the last eleven years. As the
 Replenishment, Wághad waste weir has not been constructed as yet, the full
 Tank. supply level of the water in the tank is from 15 to 18
 feet short of the designed full supply level. At the
 close of the monsoon, however, a temporary dam is annually thrown across the
 waste weir channel and 4 feet additional storage was thus obtained last year.

The erosion of the waste weir channel and the consequent necessity for
 building a waste weir wall and providing some protection works to the channel
 have led to a review of the general position of the Kadva river system. The
 plans and estimates for dealing with the Wághad tank, though completed, have
 been held back until a revised estimate for the tank and canals is ready. It is
 necessary to enlarge the carrying capacities of the canals, and to complete the
 proposals for distribution. Owing to an accident to the canal subordinate the
 survey has been unavoidably delayed.

2. From April 1st to June 1st, 1895, a period of 61 days, the tank was
 continuously drawn upon to feed the canals. The expenditure of water from
 the tank outlet was 78.15 millions cubic feet. The rivers brought in 4.93
 millions cubic feet. Thus during this period 83.08 millions cubic feet were
 used in watering 354 acres applied for. The duty calculated on these data is 22
 acres per cubic foot per second.

3. During this period the total reduction of quantity in the tank was 93.15
 millions cubic feet, whereas the total discharge from the outlet was 78.15 millions
 cubic feet, which shows a difference of 15 millions cubic feet, *i. e.* 1.25 feet on
 the mean area of the period (11.908 millions square feet), or 1.60 feet over the
 mean tank area (9.529 millions square feet). From this the conclusion may be
 drawn that about 5 feet on the mean area of the tank represents the annual loss
 from evaporation.

4. Of the 83.08 millions cubic feet referred to in paragraph 2 above, 82.42
 millions cubic feet passed into the canal, showing that whatever loss from eva-
 poration occurred was practically compensated for by springs in the river.

5. In the Páلكhed Canal itself experiments made in April 1896 show that
 52 per cent. was lost by evaporation and percolation. Deducting this loss (42.86
 millions cubic feet) and the tail discharge into the Ojhar Támbat and Wadáli
 canals (18.69 millions cubic feet) from 82.42 millions cubic feet, we have 20.87
 millions cubic feet irrigating 301 acres (obtained from statement of crops for
 the khárif season) actually on the canal. The duty thus arrived at is 76 acres
 per cubic foot per second.

6. At the head of the Wadáli Canal the quantity of water derived from the
 Parashari river and from springs between the Páلكhed and Wadáli weirs was
 23.13 millions cubic feet

Deducting 42 per cent. (from actual experiment), or 11.81 millions cubic feet,
 for loss by evaporation and percolation, the remainder 16.32 millions cubic feet

was used up in irrigating 59 acres (of which 39 acres was the Thal irrigation). Hence the duty is 19 acres per cubic foot per second. This result is bad as compared with that of the Pálkhed Canal. It is however to be observed that the water is all derived from percolation and from the Parashari river, and that there is no irrigation further down.

7. The duty for the Ojhar Támbat Canal is worked out as follows:—

	Millions c. ft.
Total quantity at the head	19·85
<i>Deduct—</i>	
For loss by absorption and evaporation (from experiment) at 37 per cent.	7·34
	<u>12·51</u>

Thus the net quantity 12·51 millions cubic feet irrigating 76 acres gives a duty of 32 acres. The low duty is due to much scattered irrigation and longer field channels.

8. The tail flow of the Pálkhed Canal was all utilized, and practically no water was allowed to run to waste. This consideration and the high duty on the Pálkhed Canal show that the water was economically used and well managed.

The balance of water left in the tank on the 8th June 1895, when its level was at its lowest, *i.e.* R. L. 100·25, was 85·99 millions cubic feet, or sufficient for irrigating 1,225 acres of hot weather crops on the Pálkhed Canal.

9. There was no replenishment to the tank during the hot weather season. On the 18th July, after 11·40 inches of rain had fallen at Wághad from the beginning of the monsoon, the tank began to overflow and water continued to run until the 4th of October 1895, when the temporary bank cut off the waste weir outflow. The water begins to flow in the waste weir channel at R. L. 110, at which level the storage is 197·64 millions cubic feet. The temporary dam brought the water level to R. L. 113·70, giving a storage at the beginning of the new season of 257·52 millions cubic feet.

10. By the 1st February 1896 the natural supply of the rivers had fallen so low that it was necessary to supplement it from the tank, the discharge from which varied from 4 to 19 cubic feet per second.

11. The duty for the rabi season is worked out for the Pálkhed Canal as follows:—

	Millions c. ft.
From October 16th to February 29th, supplied by the river ...	199·72
Do. do do tank ...	28·54
	<u>228·26</u>

12. Out of the 228·26 millions cubic feet, only 222·37 millions cubic feet passed into the canal, showing a difference of 5·89 millions cubic feet which probably represents storage behind the Pálkhed weir.

13. From 222·37 millions cubic feet deducting (from experiment) 45 per cent., or 100·07 millions, for loss by evaporation, and 32·61 millions cubic feet as the tail discharge let into the Ojhar Támbat and Wadáli canals, the net quantity of water utilized was 89·69 millions cubic feet, irrigating 1,555 acres, of which 277 acres were under perennial crops. The duty for the rabi season (including the watering of hot weather crops) works out, therefore, to 205 acres per cubic foot per second, but there is reason to believe that this duty is too high to be reliable.

Taking the perennial duty at 76 acres as arrived at for the hot weather, the duty for the rabi crops alone works out to 325 acres.

14. On the Ojhar Támbat Canal the quantity supplied was

	Millions c. ft.
By the river	23·42
From the Pálkhed Canal	31·97
	<u>55·39</u>

Out of this supply only 51·03 millions cubic feet passed into the canal irrigating 497 acres, the duty at canal head being thus 115 acres per cubic foot per second.

From 51·03 millions cubic feet deducting 25 per cent., or 12·76 millions cubic feet for loss by evaporation and absorption, the quantity used was 38·27 millions cubic feet irrigating 497 acres. The duty for the season thus arrived at is 154 per cubic foot per second.

15. On the Wadáli Canal the duty is worked out as follows :—

				Millions c. ft.
Total canal head discharge from 16th October to 29th February				76·42
<i>Deduct—</i>				
For loss by evaporation and absorption at 34 per cent. ...				25·98
Net supply ...				50·44

Thus 50·44 millions cubic feet irrigating 610 acres (of which 282 acres was the Thal irrigation) give a duty for the season of 143 acres per cubic foot per second.

16. The rainfall in the catchment area of the tank was 46·36 inches against the average 52·39 inches. Over the irrigated area the total of 28·84 inches is in excess of the average (25·53) for the last 22 years. The distribution according to seasons is :—

Locality of Gauge.			Kharif.	Rabi.	Total.
			Ins. cts.	Ins. cts.	Ins. cts.
Palkhed	...	...	25 81	4 11	29 92
Niphád	...	...	26 52	1 25	27 77

The monsoon season was characterised by timely and favourable rainfall at the beginning and insufficient rainfall at the end. At Palkhed there was no rainfall after the 25th October.

17. The following table shows areas applied for and areas actually irrigated as compared with those of the previous year :—

Year.			Area applied for in Acres.			Area actually irrigated in Acres.		
			Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
			Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1894-95	...	...	1,095	1,452	2,547	982	1,785	2,767
1895-96	...	...	856	1,444	2,300	595	1,894	2,489

The excess of areas actually irrigated as compared with areas applied for is due to the approximate character of the areas as entered in the applications. The decrease in kharif area for 1895-96 is due to the sufficiency of fodder and to favourable rainfall at the beginning of the monsoon.

18. The following table shows by seasons the areas and assessments of irrigated land exclusive of permanent bagayat :—

Comparison of areas and assessments.

1895-96.

Canals.	Areas.			Assessment.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
Pálkhed Canal	421	1,201	1,622	2,921	3,477	6,398
Wadáli Canal	58	281	339	291	771	1,062
Ojhar Támbat Canal	116	412	528	749	1,438	2,185
Total	595	1,894	2,489	3,961	5,684	9,645

This compares as follows with the areas and assessments in the previous year :—

1894-95.

Canals.	Areas.			Assessment.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
Pálkhed Canal	688	1,163	1,851	3,914	3,435	7,349
Wadáli Canal	72	255	327	274	770	1,044
Ojhar Támbat Canal	222	367	589	1,082	1,030	2,112
Total	982	1,785	2,767	5,270	5,235	10,505

The comparison shows that the kharif area was much less than that of the previous year. The decrease is in hot weather crops, which were not raised for the reasons given in paragraph 17 above. The increase in rabi area is due to the raising of ground-nut crop mostly in the rabi season. The total area irrigated shows a decrease of 10 per cent. as compared with the average of the preceding five years. The total assessment is, in consequence of the falling off in kharif, less than that of the previous year.

Areas of crops.

19. The following table shows areas of principal crops for the year under review compared with the average of the previous five years :—

Name of Crop.	For the year 1895-96.	Average of the five preceding years.	Increase.	Decrease.
	Acres.	Acres.	Acres.	Acres.
Wheat	691	904	...	213
Ground-nut... ..	882	810	72	...
Gram	172	170	2	...
Sugarcane	332	274	58	...

20. The most noticeable feature is that owing to the timely and sufficient rainfall there was considerable decrease in the area of irrigated wheat. There was however no diminution of the wheat area cultivated. The cultivation of ground-nuts increased owing to the rise in market price.

21. The total assessment and the amount realized during the year were as under :—

		Rs.
Assessment during the year	...	9,808
Unrealized rabi assessment for 1894-95	...	5,235
Unrealized balance from previous years	...	1,449
Do. do. on Miscellaneous receipts	...	5
	Total	16,497
<i>Deduct—</i>		
Total realizations during the year	...	9,256
	Balance unrealized	7,241

The above figures include direct receipts as noted below, Rs. 594 being for enhancement of land assessment :—

		Rs.
(1) Sale of water	...	3
(2) Receipts from plantation	...	22
(3) Do. from other canal produce	...	96
(4) Alluvial Galper land above Palkhed weir for 1895-96	...	41
	Total	162

22. The following exhibits a comparison of working expenses, &c., under each head between the years 1895-96 and 1894-95 :—

Name of Work.	CHARGES FOR 1895-96.				CHARGES FOR 1894-95.			
	Mainten- ance and Repairs.	Estab- lishment.	Tools and Plant.	Total.	Mainten- ance and Repairs.	Estab- lishment.	Tools and Plant.	Total.
<i>Kadva River Works.</i>	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Palkhed Canal	2,707	2,376	...	5,083	1,814	5,732	102	7,648
Ojbar Tambat Canal	389	570	...	959	467	1,531	24	2,022
Wadali Canal	543	591	...	1,134	509	1,617	18	2,144
Waghada Tank	720	389	149	1,258	716	1,931	...	2,647
	4,359	3,926	149	8,434	3,506	10,811	144	14,461
	(1)	(2)	(3)					

Notes :—(1). The excess in Maintenance and Repair charges of the Palkhed Canal in 1895-96 were due to special clearance of silt accumulated in the canal owing to exceptionally heavy floods.

(2). Balance of establishment charges is debited to this in proportion to outlay. Heavier expenditure being incurred in 1895-96 on other service heads, less balance was left to be charged to this, and hence decrease.

(3). The excess in other heads being trivial requires no explanation.

23. The usual works of maintenance and repairs were carried out during the year. The Wadali Canal has been provided with mile and furlong stones.

The total maintenance charges on the three canals and the Waghada tank during the year amounted to Rs. 9,441 and are divided as follows :—

		Rs.
I.—Maintenance and Repairs	...	4,359
II.—Establishment	...	3,926
III.—Tools and Plant	...	149
IV.—Share of Collection Charges	...	457
V.—Indirect Charges	...	550
VI.—Refund of Revenue	...	.....
	Total Rs.	9,441

24. The crops were measured at a cost of Rs. 235 for 2,489 acres, which gives a rate of 1 anna 6 pies per acre.

25. The following table shows the cost of establishment debited to revenue management, the percentage it bears to the assessed revenue from irrigation, and the incidence of cost per acre irrigated as required per Government Resolution No. 213 A-I.—1289, dated 14th August 1895:—

Name of Work.	Establishment debited to Revenue management.	Percentage of Revenue Establishment on assessed Revenue.	Incidence of Cost per Acre irrigated.
<i>Kadva River Works.</i>			
	Rs.		
Palkhed Canal	656	10·25	·40
Ojhar Tambat Canal	235	10·75	·44
Wadali Canal	186	17·51	·55
	1,077	11·17	·43

26. The Palkhed Canal was closed seven times and the Wadali Canal four times for periods aggregating 38 and 20 days respectively. The Ojhar Tambat Canal was not formally closed, but it ran dry four times for a period aggregating 22 days when the Palkhed Canal water was shut off.

27. The duty of water in the canals has been worked out in the remarks above relating to the storage tank. When calculated according to the ordinary method it varies from 20 to 47 for the kharif season and from 82 to 111 for the rabi season.

28. The following table shows results of special observations taken for ascertaining the quantity of water required for maturing different crops:—

Canal.	Village.	Crop.	Area.	Number of Waterings.	Volume of Water.	Volume of Water per Acre.	PERIOD OF WATER.	
							From	To
<i>Kharif Season.</i>								
Palkhed	Palkhed	Sugarcane...	0 13	17	60,286	1,85,496	19th February 1895	5th February 1896.
Ojhar Tambat	Datana	Do.	0 14	17	1,47,754	4,22,156	15th May 1895	14th March 1896.
Wadali	Wadali	Do.	0 10	29	46,782	1,87,168	23rd March 1895	18th March 1896.
Do. ... ..	.....	Khondia	0 10	8	15,830	65,720	2nd March 1895	27th June 1895.
<i>Rabi Season.</i>								
Palkhed Canal	Mohadi	Ground-nut...	0 14	3	6,595	15,729	21st October 1895	9th December 1895.
Dixi Distributary	Jival	Do.	0 17	2	11,200	26,352	26th October 1895	9th December 1895.
Do.	Dixi	Wheat	0 25	2	15,248	24,397	7th December 1895	24th January 1896.
Ojhar Tambat	Datana	Ground-nut...	0 35	3	40,697	46,396	27th October 1895	6th December 1895.

The results are much below what are given in Jackson's Hydraulics. Perhaps this is due to the watering of the ground by rain being neglected.

29. Observations were made in October and December 1895 and in April 1896 for ascertaining the loss by evaporation and percolation.

The results are:—

Canals,	AVERAGE LOSS IN CUBIC FEET PER SECOND PER MILE.			PERCENTAGE OF HEAD DISCHARGE COST.			REMARKS.
	Kharif.	Rabi.	Hot Weather.	Kharif.	Rabi.	Hot Weather.	
Wadali	·28	·45	·58	23	34	42	
Ojhar Tambat	·55	·60	·11	20	25	37	

30. The total number of trees standing on the canals at the close of the year was 12,319. Of these the principal were as under:—

Names of Trees.				Number of Trees.
Bābul	...	...	...	9,607
Mango	...	...	...	1,026
Nimb	...	...	...	478
Moho	...	...	...	641

The expenditure during the year was Rs. 287 from the Revenue Account.

(8).—PRAVARA RIVER WORKS—LA'KH CANAL.

The area irrigated during the year was 334 acres, of which 132 were under kharif and 202 acres under rabi crops. The total shows an increase of 24 acres on the area of the last year. The area of kharif was 6 acres less and the area of rabi 30 acres greater than in the previous year. The decrease in the kharif season is small and needs no explanation. The increase in rabi season is due to growth of irrigation under the Nevāsa distributary at the tail of the canal, as is shown by the following figures of cultivation:—

Nevāsa village.

Year.				Kharif.		Rabi.		Total.	
				A.	g.	A.	g.	A.	g.
1892-93	...	...	..	1	10	.....		1	10
1893-94	...	...	...	2	0	10	24	12	24
1894-95	...	...	...	14	13	42	0	56	13
1895-96	...	...	..	19	24	69	3	88	27

Comparison of Area applied for and irrigated.

2. The following statement compares the areas applied for and irrigated during the year:—

Year.	KHARIF.		RABI.		TOTAL.		DIFFERENCE LESS IRRIGATED.		
	Applied for.	Irrigated.	Applied for.	Irrigated.	Applied for.	Irrigated.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1895-96	100	101	201

The area applied for but not irrigated is 37·57 per cent. of the total area applied for. Of the deficiency, 81 acres was on account of less cultivation on fields irrigated during the rabi, 94 acres on account of kharif lands which took on water as rainfall was sufficient, and 26 acres on account of garden crops for which water was applied for but which were not sown.

Water-rate assessments.

3. The water-rate assessments amounted to Rs. 1,120 against Rs. 1,065 in the previous year. The details were:—

Kharif	...	...	...	...	Rs. 675
Rabi	...	...	...	...	Rs. 445
Total					Rs. 1,120

The increase is due to greater attention in keeping the canal flowing to the tail distributaries, which has resulted in a steady increase of irrigation in Nevása village as noted in para. 1 above.

Area irrigated per mile of main canal and of main canal and branches.

4. The area irrigated per mile of main canal was kharif 5·74 and rabi 8·78 acres, and of main canal and branches together was kharif 4·08 acres and rabi 6·24 acres.

Comparison of area irrigated and revenue.

5. The following table compares the area irrigated and the revenue derived during the past three years with the figures for the year under report:—

Year.	Area irrigated.	Revenue from Water-rates.	Rainfall from 1st April 1895 to 31st March 1896.	
			In.	cts.
1892-93	158	532	32	41
1893-94	343	1,078	27	17
1894-95	310	1,065	26	71
1895-96	334	1,120	17	46

The South-West monsoon rainfall was deficient in August and October and the rabi rainfall below the average.

6. The incidence of water rate per acre was Rs. 3·35 against 3·44 in the previous year. The decrease is due to the lesser area of 8 months crops.

Capital Account.

7. There was no expenditure from Capital Account, which is closed.

Working expenses.

8. The working expenses amounted to Rs. 10,587 as detailed below, as compared with Rs. 13,319 in the previous year:—

Maintenance and repairs	...	...	...	Rs. 2,490
Share of establishment	...	...	...	6,917
Tools and plant	...	...	...	94
Share of collection charges	...	...	...	68
Indirect charges	...	...	...	968
				Total ... 10,537

The rate of working expenses per mile of main canal open was Rs. 458 and per acre irrigated Rs. 31·55. The expenditure on repairs to head-works was reduced from Rs. 222 to Rs. 194, due to less cost of raising a temporary bund. On repairs to main canal and branches there was an excess over expenditure of 1894-95 of Rs. 212. Of this excess Rs. 120 was for replacing iron pipes of outlets which had become worn out through rust, Rs. 80 was for restoring the road surface over bridges which had been much injured by heavy rains and traffic, Rs. 66 was on plantations against which no charge had been made in the preceding year, and Rs. 35 on buildings. A large saving was anticipated on earth-work, but heavy rains caused many breaches in the canal banks, and therefore the expenditure could not be kept below Rs. 1,386 for both clearance and bank repairs. The section of the canal is now being maintained of sufficient depth and width to supply the tail branches of the canal, and this of necessity causes some additional expense beyond what was previously incurred. The saving on earth-work was Rs. 102. The total expenditure for maintenance and repairs exceeded that of the previous year by Rs. 348.

9. The duty per cubic foot per second of water admitted into the canal was 6·02 acres in the kharif and 10·31 acres in the rabi season. That of water actually utilized was 6·45 acres in the kharif and 11·16 acres in the rabi season. The cause of small duty is explained in last year's report.

10. The total cost of measuring 334 acres during the year was Rs. 39-11-2, or one anna and 11 pies per acre against one anna and 8 pies per acre on the previous year. The high rate is due to the fields irrigated being small and scattered along the canal at a distance from each other.

11. The rainfall gauged at Malunja was 16·37 inches in the kharif and 1·01 inches in the rabi season; total 17·38 inches; or 4·30 inches less than the average of the last five years.

12. The supply of water in the river was more than sufficient to meet the requirements of the irrigators during the kharif and rabi seasons. In December 1895 a temporary earthen bund 2 feet high was constructed on the weir to increase the back-water during the hot weather of 1896-97. An increased supply during the hot weather is a desideratum, but can only be looked for after construction of a storage reservoir, for which a scheme is under consideration.

13. The canal was closed six times (for 24 days altogether) for silt and weed clearance. It was also closed for 13 days more owing to heavy rains during the monsoon.

14. At the end of the year the number of trees on this canal was 20,107. The number of principal kinds were:—

Bábul	13,261	Melingtonia	32
Nimbhárá	49	Divi-divi	18
Nimb	1,444	Moho	3
Bore	580	Jámbul	869
Sandal	87	Siras	31
Bakan	55	Mango	649
Tamarind	14	Bamboo	175
Lemon	5	Orange	19
	Miscellaneous ...		2,816.

The total number in the previous year was 22,932. There is a decrease of 2,837 bábul trees on the number of the last year. They were sold by public auction for the sum of Rs. 1,100. It was necessary to cut this large number of bábul trees, as their shade was injuring a considerable extent of land bordering on the Toka and Nevása distributaries.

(9).—MUTHA CANALS.

On the 1st April 1895, the water at Lake Fife was 21·28 feet above the sill of canal sluices, and the minimum level was reached on the 17th June, when the depth was 10·97 feet. The water began to rise on the 18th June and the lake filled to overflowing the 22nd of that month.

The highest flood of the year occurred on the 18th July 1895, when the water rose to R. L. 247·22 or 3·15 feet above finished crest level. The flood of July 1891 rose to R. L. 249·17 and that of 21st July 1894, the highest recorded up to date, rose to R. L. 249·52 or 5·45 feet above finished crest level.

The standards and planks were fixed on the weir by the end of September, and on the 6th November the water stood at 4 feet above the finished crest of the weir.

The draw-off from the storage commenced from the 9th November, *i. e.* 15 days later than the previous year. On the 31st March 1896 the level of the water was 21·47 feet above the sill of the sluices, *i. e.* 0·07 higher than on the same date in 1895.

Assessment of revenue. 2. During the year under review the assessments amounted to Rs. 2,98,471 as noted below:—

	Amount.
	Rs.
Water-rates	1,77,642
Sales of water	2,214
Water-supply of towns	1,07,219
Plantations	2
Water-power	6,009
Receipts from other canal produce	1,000
Rents of buildings	117
Miscellaneous... ..	4,235
Irrigation share on account of enhanced revenue from percolation from the Mutha Canals in the village of Warza, Shivene and Kondwe Dhawda, taluka Haveli, as per Canal Return No. VIII	42
	2,98,471

This is Rs. 50,517 in excess of the total for the previous year and is the highest annual revenue obtained since the work has been in operation. The increase is due chiefly to the higher rates introduced for perennial crops and also to an increase in the revenue from the Poona water-supply.

3. The area irrigated during the year was 8,133 acres, of which 7,462 were kharif and 676 rabi crops. The total shows a decrease of 1,944 on the area irrigated in the previous year.

Area irrigated.

The principal decrease is in "jowári", of which only 83 acres were irrigated, as compared with 1,534 acres in the previous year. This is due to the favourable rabi rainfall and also to the fact that water for rabi crops was not available beyond the 39th mile of the canal, as the storage at Lake Fife was reserved for perennial and 8 months crops. If water had been allowed in the canal to the tail, probably 300 or 400 acres of jowári would have been irrigated, as some of the crops required one watering towards the end of the rabi season. There was a serious decrease, viz. 911 acres, in the area of sugar-cane, 5,277 acres being irrigated in 1894-95 and 4,366 acres this year. This is chiefly due to the abnormally low market rate of "gul" during the past two years; the rate fell at a time when the cultivators had to procure money for the next cane-sowing operations, and it was those who had to raise money on the security of their standing crops who failed to get the necessary advances. It is the farmers with no capital who suffer most in these circumstances, as they are entirely in the hands of the *soukára*. The price of sugar fell to only Rs. 8 per *palla*, a fair rate being from Rs. 13 to Rs. 15. The fall of Re. 1 per *palla* means a loss to the cultivator of about Rs. 40 per acre, and therefore a probable loss of about Rs. 200 per acre was sufficient to make many cultivators give up a certain area, until they saw there was some chance of the price rising. It was unfortunate that this influence should have been at work just when the enhanced rates were introduced. That the increase, however, to Rs. 40 per acre for sugarcane has not checked the area under cultivation is proved by the fact that a certain area near the village of Mundwa, where the rate is Rs. 50 per acre, has *increased*. There is little doubt that as soon as the price of sugar goes up the maximum area of cane that can be irrigated will be applied for. The area this year was 4,366 acres and the storage at Lake Fife could serve about 5,400 acres. There will always be some fluctuation in the area, but the minimum should not be less than 4,500 acres.

The area of rice has increased from 294 to 375 acres. Seed was obtained through the Agricultural Department and issued to those who required it. The results were in every way most satisfactory, and the only thing to be regretted is that the area was not much larger. All the cultivators who grew the best kind of rice admit the crop to have been good and the value of the outturn very satisfactory. Apparently the reason for the slow development of this class of irrigation is want of capital.

There was an increase of 465 acres in the area of *báji*, which is the principal monsoon dry crop, and the irrigation of which varies with the character of the rainfall,

4. The revenue derived from the Poona water-supply amounted to Rs. 1,07,219 as compared with Rs. 94,760 in the previous year, or an increase of Rs. 12,459. About one-third of this is due to an increased supply to private houses, more than a third to the Poona Municipality, and the balance to an increased consumption by the G. I. P. Railway Company and by Government in the Civil and Public Works Departments. The new settling tanks, filter beds and pumping machinery are complete and in good working order. The quantity of water supplied by the new works during the year amounted to 297,810,000 gallons, or 816,000 gallons a day. The quantity supplied from the old Sholapur Bazar filter is estimated approximately at 300,000 gallons a day. The average daily supply throughout the year amounted to 1,116,000 gallons a day.

5. The working expenses of the year, including Rs. 641 for refunds of revenue, amounted to Rs. 78,230 as compared with Rs. 82,187 in the previous year. The following table gives an analysis of the charges:—

Names of Works.	Maintenance and Repairs.	Establishment.	Tools and Plant.	Refunds of Revenue.	Leave and Pension Allowances.	Share of Collection Charges.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1895-96.							
Mutha Canals ...	13,140	D. 1,187 C. 14,544	1,946	641	2,835	7,834	42,127
Poonawater-supply	16,070	D. 1,452 C. 14,589	2,379	...	1,613	...	36,103
Total ...	29,210	31,772	4,325	641	4,448	7,834	78,230
1894-95.							
Mutha Canals ...	19,930	D. 4,136 C. 12,814	3,759	2,478	2,975	6,330	52,422
Poona water-supply	13,806	D. 2,172 C. 10,071	2,604	...	1,112	...	29,765
Total ...	33,736	29,193	6,363	2,478	4,087	6,330	82,187

On the Mutha Canals the cost as shown above, excluding refunds of revenue, represents a rate for maintenance, administration, &c., of Rs. 471.43 per mile (the total mileage in operation being 88 miles) and Rs. 5.10 per acre irrigated (the total acreage being 8,138). The expenditure under maintenance and repairs amounted to Rs. 13,140 as compared with Rs. 19,930 in the previous year. The chief reason for the decrease is that the pay of Canal Inspector and Pátkaris is now charged to "Establishment" instead of to "Works" as formerly. The increase in the amount charged as construction establishment is due to the decrease in capital outlay during the year. The excess on the Poona water-supply is due to the employment of a mechanic at Rs. 180 per mensem, and to repairs to fire plugs.

6. Deducting the total net working expenses, Rs. 77,589 plus Rs. 1,099, the amount of remissions and refunds sanctioned during the year, from the total earnings of Rs. 2,98,471, the net profits from the work amount to Rs. 2,19,783, or Rs. 3.34 per cent. on Rs. 65,88,127, the total entire capital outlay to the end of the year, against Rs. 2.53 per cent. in the previous year.

7. The areas irrigated were ascertained by actual measurements, the greater part of which were taken by measurers specially entertained for the purpose and assisted occasionally by the Canal Inspectors. From 9 to 12 per cent. of the area was checked by the subordinate in charge. The cost of measurements amounted to Rs. 1,432, or at the rate of 2 annas and 10 pies per acre against 2 annas and 2 pies in the

previous year. The increase in the rate is due to the area under irrigation being less than in the previous year.

8. The rainfall of the year along the canal varied considerably. The maximum was 34.31 inches at Hadapsar and the minimum 17.57 inches at Kedgaon as under:—

			Kharif.	Rabi.	Total.
			Ins. cts.	Ins. cts.	Ins. cts.
Hadapsar	...	...	27 85	6 46	34 31
Kedgaon	...	...	14 70	2 87	17 57

Both the kharif and rabi rainfall was favourable.

9. A statement is appended giving the particulars of the water issued gratis or at reduced rates to various institutions in accordance with the orders issued by Government from time to time. It will be seen from the statement that local institutions have received water during the year at Rs. 3,263 less than the normal rates.

10. The following is the comparison of areas applied for and those actually irrigated:—

	Area applied for.			Area irrigated.			More.		Less.	
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Kharif.	Rabi.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Mutha Right Bank Canal ...	8,023	722	8,745	6,648	581	7,224	...	...	1,350	141
Mutha Left Bank Canal... ..	916	96	1,012	819	95	914	...	...	97	1
Total ...	8,939	818	9,757	7,462	676	8,138	...	...	1,477	142

The decrease in kharif is due partly to the cultivators being unable to plant as much sugarcane as they applied for and partly to favourable rainfall causing a reduction in the area of monsoon crops; that in rabi is partly due to favourable rainfall during the season and partly to the supply being confined to the first 39 miles of the canal.

11. Remissions amounting to Rs. 17 were granted during the year on account of erroneous assessments.

12. Refunds amounting to Rs. 1,082 were sanctioned during the year, of which Rs. 22 were for short supply of water, Rs. 650 on account of rebate given to the Indian Paper Mills Company for 39 days, for 19 days the supply having been insufficient to yield 60 horse-power and for 20 days the canal having been closed, and Rs. 410 on account of the use for irrigation of the surplus water from the Nāna Phadnavis' conduit together with the leakage from the Mutha Canal in the village of Wadgaon Budruk, Taluka Haveli. The amount actually paid as shown in the statement in paragraph 5 was Rs. 641, the balance not having been paid by the Civil Department before the close of the year.

13. Gaugings to ascertain evaporation and leakage were taken for broken periods in the months of April, May, June 1895, and January, February and March 1896, or a total number of 164 days. During this period the loss amounted to

Loss by evaporation and absorption.

1,177,585,311 cubic feet, or rather less than one-third of the total capacity of the lake above outlet level.

14. The following statement shows the duty of water on the two canals for those months during which correct figures regarding the discharge and area under irrigation were available:—

Month.	Discharge of Canal at head. Cubic feet per second.	AREA UNDER IRRIGATION, ACRES.				Duty per cubic foot per second.			
		Perennial.	8 months.	4 months.	Total.				
1895	{ April	116·96	3,775	38	80	3,893	33·28	} Mutha Right Bank Canal.	
	{ May	123·10	4,756	46	93	4,895	39·76		
1896	{ January	96·75	3,747	95	242	4,084	42·21		
	{ February	97·08	3,822	103	72	3,997	41·17		
1895	{ April	16·44	684	...	2	686	41·73		} Mutha Left Bank Canal.
	{ May	20·62	750	...	20	770	37·34		

Sugarcane sowing was continued later than usual, and as there were signs of a reduction in the area, a more liberal supply than usual was maintained in the canal in order to encourage the cultivators to extend the area. This accounts for the reduction in the duty of water as compared with the previous year.

POONA WATER-SUPPLY.

Statement showing water supplies given gratuitously or at reduced rates during 1895-96.

To whom supplied.	Quantity supplied.	Amount paid.	Value at 6 annas per 1,000 gallons.	Difference between 4 and 3.	Remarks.
1	2	3	4	5	6
		Rs. a. p.	Rs. a. p.	Rs. a. p.	
The Civil Surgeon, Sassoon Hospital.	1,032,750	193 9 10	337 3 8	193 9 10	
Do. do.	553,850	103 13 4	207 10 8	103 13 4	
Superintendent, Byramji Jijibkoy Medical School	523,409	98 2 0	196 4 0	98 2 0	
Superintendent, Lunatic Asylum ...	1,013,651	190 0 6	380 1 0	190 0 6	
Secretary, Cantonment Committee:—					
(New Modikhána)	1,205,001	225 14 8	451 13 4	225 14 8	
(Beef Market)	1,285,995	241 2 0	482 4 0	241 2 0	
(Malcolm Tank)	1,341,995	251 10 0	503 4 0	251 10 0	
(Mutton Market)	1,276,995	239 7 0	478 14 0	239 7 0	
(Asurkhána)	1,430,000	268 2 0	536 4 0	268 2 0	
(Butler Moholla)	1,421,000	266 7 0	532 14 0	266 7 0	
Convent School... ..	463,230	86 13 5	173 10 10	86 13 5	
Jamsetji Fountain	1,146,960	18 5 9	430 1 9	411 12 0	
Houds in Booty Street	1,830,000	.....	686 4 0	686 4 0	
				3,263 1 9	

(10).—EKRUK TANK.

The rainfall for the year under report was 31·09 inches (kharif 27·81 and rabi 3·28) against 20·18 inches of the previous year (kharif 19·25 and rabi 0·93), and was seasonable.

2. The lowest water level in the tank was R. L. 1,509·057 prior to the commencement of replenishment, and the depth of water over sill of main or perennial canal sluice was 25 feet. On 7th September 1895 there was a heavy rainfall, 9·55 inches, and the tank water level rose to R. L. 1,524·107, or 3 feet over the crest of the waste weir, which overflowed from that date to 24th October, and again in November from 1st to 12th, both days inclusive.

3. The area irrigated during the year was 2,589 acres, of which 1,671 were kharif and 918 rabi, against 3,292 acres of the previous year (kharif 1,830 and rabi 1,462). The area applied for was 2,192 acres (kharif 1,472 and rabi 720), or 397 acres less than that actually irrigated. The difference is due to the cultivators being ignorant of the areas of their fields.

4. The assessment of water-rates amounted to Rs. 12,291 as compared with Rs. 13,463 of the previous year, and the gross assessed revenue from all sources was Rs. 25,576 against Rs. 29,551 of the previous year. The decrease is due to less area irrigated during the year and to a smaller number of trees sold. The details of revenue, other than from water-rates, are as under :—

				Rs.
1. Plantation	...	...	...	282
2. Other canal produce	...	...	...	5,774
3. Sales of water to—				
(a) Sholapur Municipality...	...	...	...	4,731
(b) G. L. P. Railway Company	...	...	...	1,209
(c) Spinning and Weaving Mills	...	...	...	704
(d) Distillery	...	...	...	60
4. Miscellaneous	...	...	...	525
Total				13,285

5. The following table compares the figures of area, assessments and working expenses with those of the previous eight years :—

Years.	Kharif.		Rabi.		Total.	Water-rate Assessment.	Gross Revenue.	Working Expenses.
	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
1887-88	1,357	757	2,114	6,651	13,784	15,953		
1888-89	1,620	1,356	2,976	7,652	15,209	14,666		
1889-90	1,335	1,199	2,534	9,441	18,532	13,231		
1890-91	1,835	763	2,598	10,188	23,516	13,824		
1891-92	1,935	1,202	3,137	13,125	27,470	13,770		
1892-93	2,425	613	3,038	14,760	23,830	27,043		
1893-94	2,247	642	2,889	14,364	24,357	26,411		
1894-95	1,830	1,462	3,292	13,463	29,551	12,050		
1895-96	1,671	918	2,589	12,291	25,576	15,461		

The falling off in kharif and rabi irrigation was due to the favourable rainfall of the year. The incidence of water-rate was Rs. 4.74 per acre irrigated against Rs. 4.09 of the previous year.

6. The area irrigated by each canal and the water-rate assessment thereon were as follows :—

Name of Canal.	Average discharge per day during the year.	Area irrigated.						R. L. of water in tank on 5th June 1896.	
		Kharif.		Rabi.		Total.		R. L. on 5th June 1896.	Height of water over sills in feet.
		Acres.	Assessment.	Acres.	Assessment.	Acres.	Assessment.		
Left Bank Low Level Canal	2.04	1,391	8,015	718	1,920	2,109	9,935	16.0-5.37	25.150
Left Bank High Level Canal	3.43	179	1,207	83	475	262	1,662		
Right Bank High Level Canal	5.37	101	363	117	311	219	674		
Total	...	1,671	9,685	918	2,706	2,589	12,291	...	...

7. Working expenses, including indirect charges, amounted to Rs. 15,461. The item "Maintenance and Repairs" amounted to Rs. 5,993, or Rs. 125 per mile of canal against Rs. 126 of the last year, the length of the canals being 48 miles. The working expenses include the cost (Rs. 3,041) of a new iron bridge provided to the outlet tower of the perennial canal. Establishment charges, direct and indirect, amounted to Rs. 5,678.

8. The area irrigated was measured at a cost of Rs. 570, which gives a charge of annas 3 and pies 6 per acre measured.

9. The rainfall over 159 square miles of catchment area was gauged at one place only, and amounted to 35.36 inches from 1st June to 31st October 1895. The run-off into the tank was 13,061 million cubic feet, which amounted to 48 per cent. of the total rainfall over the catchment area of the tank, assuming the fall at 35.36 inches throughout that area. The run-off from 1st June to 7th September 1895, on which date the waste weir began to overflow, is calculated to be 0.36 on the same basis, which is probably erroneous.

10. Bábul trees grow plentifully on the tank margin and on the canals, and form a good source of revenue, as there is always demand for firewood at Sholápur. The system mentioned in the Mhasvad Tank report regarding new plantation and sale of existing trees applies to this tank as well. No trees were sold during the year. The numbers of existing trees on 31st March 1896 on the tank contour and canals were as shown below:—

Names of Trees.	Number above 5 feet in height.	Number under 5 feet in height.
Bábul	50,836	73,291
Nimb	1,146	79
Mango... ..	649	162
Jámbul	100	7
Tamarind	186	124
Shiras	137	20
Bori	37	...
Sandal... ..	90	34
Bamboo	194	5
Guava... ..	25	...
Moho	5	2
Nimboni	88	7
Shindi... ..	50	300
Miscellaneous... ..	471	63
	54,014	74,094
Total	1,28,108	

The fruit trees do not yield any considerable revenue as yet. The amount realized from this source was Rs. 241 against Rs. 81 of the previous year.

11. The following figures show storage of water and loss by evaporation and absorption during the year:—

	Cubic feet.
Quantity of water in tank on 31st March 1895	1,677,836,301
Quantity of water which flowed into the tank during the year	6,454,743,942
Total	8,132,580,243
Discharge through the canal, leakage gutters and over waste weirs	3,477,978,375
Actual quantity of water in the tank on the 31st March 1896	2,503,472,751
Total	5,981,451,126
Quantity lost by evaporation and absorption	2,151,129,117

(11).—KRISHNA CANAL.

12. Experiments to determine, with accuracy, the duty of water were made on the Left Bank High Level Canal during the rabi season. The observations were made twice, first from 9th to 18th February 1896 and again from 22nd to 31st idem. The result of the first observation was a duty of 6·15 acres per cubic foot per second, and that of the second was a duty of 5 acres per cubic foot per second. These results are very unsatisfactory, the reasons being,—1st, that the canal runs through muram and porous soil and a great deal of water is therefore lost in transit, and 2nd, that most of the water was utilized for sugarcane while it was being sown in highly manured fields which absorbed large quantities of water in the initial waterings. It is proposed to make the next observations on one of the Ashti Tank canals during 1896-97.

(11).—KRISHNA CANAL.

The construction estimate of this canal was closed on 31st March 1892—*vide* Government Resolution No. 75 W.-I.—777, dated 14th May 1892, and the completion report was approved of in Government Resolution No. 12 W.-I.—119, dated 22nd January 1894. The following original works executed during the year under report were charged to the Revenue Account :—

	Rs.
Constructing 5 module heads	443
Do. 3 chawkidars' huts	291
Providing Persian wheel to the well at Shenoli	67
Providing furlong stones	115

The total Capital outlay, direct and indirect, to end of the year was Rs. 8,64,892.

Rainfall. 2. The rainfall, as gauged at Retre Budruk (16th mile of the canal), is shown in the following table :—

Year.	Kharif.	Rabi.	Total.
	Inches.	Inches.	Inches.
1895-96	22·21	6·20	28·41
1894-95	20·82	4·63	25·45
Average, 1891—1894	18·33	6·25	24·58

and exhibits an increase of 1·39 inches for the kharif and 1·57 in the rabi over last year. There is an increase of 2·96 over the total of the last year.

3. The hot weather flow of the river in 1895 (April and May) was less than the average. After that the supply was ample until the hot weather of 1896.

4. The area irrigated, the assessment, working expenses and average water-rate as compared with the average of the previous four years were as follows :—

Year.	Kharif.		Rabi.		Total		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1895-96	1,719	31,402	1,485	7,063	3,204	38,465	12	12,087
Average, 1891-92 to 1894-95	2,627	33,376	2,018	7,199	4,645	40,575	8·70	13,519
Increase	908	1,974	533	136	1,441	2,110	...	1,432
Decrease	908	1,974	533	136	1,441	2,110	...	1,432

5. As compared with the average of the previous four years, the area irrigated shows a decrease of 908 acres in the kharif season and of 533 acres in the rabi season. This decrease is due chiefly to the area of ground-nut crop irrigated being less than the previous year's, as that crop was injured by excessive rain in September and October of last year.

The area irrigated was 12 per cent. of the irrigable area and the measured area was nearly equal to that applied for.

6. There is a decrease in kharif assessment this year as compared with the last two years. This was due to good and timely rainfall and the partial failure of the ground-nut crop. The following table will show that the sugarcane cultivation on this canal is on the whole steadily increasing, although this year there is a slight falling off compared with the two previous years. There were no remissions during the year:—

Year.	Area of Sugarcane.	Year.	Area of Sugarcane.
	Acres.		Acres.
1885-86	852	1891-92... ..	1,219
1886-87	907	1892-93... ..	1,319
1887-88	1,089	1893-94... ..	1,449
1888-89	1,144	1894-95... ..	1,566
1889-90	1,023	1895-96... ..	1,419
1890-91	1,036		

7. The average water-rate per acre was Rs. 12 as compared with Rs. 9.50 of the previous year. The increase was due to the increase in water-rates sanctioned in Government Resolution No. 179 of 29th January 1895.

Average water-rate.

8. The realizations of the year amounted to Rs. 30,823 against Rs. 56,050 in the previous year, and the outstandings were Rs. 10,169.

Realizations.

9. The miscellaneous revenue from all other sources amounted to Rs. 1,511 against Rs. 4,664 of the previous year.

Miscellaneous revenue.

10. The working expenses, including direct and indirect charges, compare as under for the last five years:—

Working expenses.

Particulars.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.
	Rs.	Rs.	Rs.	Rs.	Rs.
Works... ..	6,164	7,954	6,898	7,064	7,036
Establishment	2,683	3,530	3,571	3,086	3,050
Tools and Plant	103	99	91	100	68
Refund of Revenue ... ..	...	...	1	...	...
Collection	1,775	3,629	1,943	3,584	1,506
Leave and Pension Allowances.	376	494	500	432	427
Total	11,101	15,706	13,004	14,266	12,087

The actual outlay on works and establishment was about the same as in the previous year.

11. The cost of working per mile of canal and per acre irrigated is as under for the past five years:—

Year.	Per mile of Canal.	Per Acre irrigated.
	Rs.	Rs.
1891-92	182	2.07
1892-93	255	4.14
1893-94	211	2.75
1894-95	223	3.05
1895-96	189	3.77

The higher figures for the year per acre irrigated are due to the decrease in the area irrigated. A better comparison would be between the working expenses and the total revenue :—

Years.	Gross Revenue.	Working Expenses.	Per cent.	Surplus Revenue.
	Rs.	Rs.		Rs.
1891-92 ...	40,970	11,101	27.1	29,869
1892-93 ...	40,057	15,706	39.2	24,351
1893-94 ...	43,281	13,004	30.0	30,277
1894-95 ...	49,041	14,256	29.1	34,785
1895-96 ...	39,976	12,087	30.2	27,889

The percentage of working expenses to gross revenue for the year under report shows a slight increase. This increase was due to the decrease in revenue—*vide* paragraph 4 above. The actual working expenses were the lowest of the series with the exception of 1891-92.

The capital sum at charge at end of the year was Rs. 8,64,892. The net revenue of the year amounted to Rs. 27,889, giving a return of 3.22 per cent. on the total Capital outlay, direct and indirect.

12. The cost of crop measurement alone was Rs. 593, equal to Re. 0-2-11 per acre against Rs. 767, or Re. 0-2-7 per acre for the previous year.

Duty of water.

13. The average duty of water obtained was for kharif 40 acres per cubic foot per second and for rabi 23 acres.

Plantations.

14. The number of trees of all classes on the canal at the beginning of the year was 22,692, and in addition 379 new saplings were planted. The number of trees cut and sold during the year was 1,359; the balance at the close of the year was thus 21,712. The net revenue from plantations was Rs. 1,229.

The principal varieties of trees on the canal are bábul 17,261, mango 732, nim 534, bamboos 413, and jámbul 190.

General remarks.

15. The canal has been heavily silted up and therefore it does not carry the estimated discharge. During the year under report the last five miles were cleared of silt at a cost of Rs. 1,534; the result was satisfactory as there were no complaints from cultivators. In 1896-97 three miles (28 to 30) of the canal will be cleared of silt.

MINOR WORKS AND NAVIGATION.

(12).—KHA'RI CUT.

The rainfall was 28.71 inches in the kharif and 3.11 inches in the rabi season, against 49.94 and 1.39 inches respectively during the previous year, the average of the last five years being as follows :—

	In.	cts.
Kharif ...	28	71
Rabi ...	3	11

Area irrigated.

2. The areas irrigated as compared with those of the previous year are as below :—

	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.
1894-95 ...	2,053	35	2,088
1895-96 ...	3,109	17	3,126

3. Though the rainfall was not favourable, the tank was, with great care and economy, kept sufficiently full during the season; nevertheless but for the seasonable rain in the latter part of October 1895, the crops would have suffered to a very large extent. The revenue during the year was Rs. 14,854, or Rs. 2,593 more than during the previous year, and is the highest on record.

4. The assessments, excluding remissions and free grants (the former being Rs. 2,437 and the latter Rs. 2,213), were as under:—

Assessments.			Khari.	Rabi.	Total.
			Rs.	Rs.	Rs.
1894-95	...	...	12,083	172	12,261
1895-96	...	...	14,802	52	14,854

Khari cultivation is increasing every year; and as it proved difficult, *vide* paragraph 3 above, to keep the tank full, it is desirable to increase the supply in the Khari Cut Canal to the utmost extent practicable.

5. The amount of outstanding balances at the close of the year for the kharif season was Rs. 11,960-6-6; out of this the following recoveries have since been made:—

				Rs.	a.	p.
April 1896	...	...	...	4,211	14	6
May 1896	...	...	...	1,410	4	10
June 1896	...	...	...	827	13	6
July 1896	...	...	...	877	1	5
Total	...	...	...	7,327	2	3

6. The working expenses of the year amounted to Rs. 5,299 against Rs. 6,107 in the previous year. The incidence per acre was 1.69 against 2.92 of the last year.

7. The area under irrigation was measured by establishment specially employed for the purpose at a total cost of Rs. 184, or nearly one anna per acre irrigated, against $1\frac{1}{4}$ annas per acre during the previous year. The cost of establishment debited to revenue management was as under:—

Years.	Cost of Establishment debited to Revenue management.	Percentage the Cost bears to the gross assessed Revenue.	Incidence of the Cost per Acre irrigated.	REMARKS.
	Rs.		Rs. a. p.	
1894-95	556	4.30	0 4 3	
1895-96	562	3.70	0 2 10	

8. The average water-rate during the year was Rs. 4.75 per acre as compared with Rs. 5.87 during the previous year.

9. The supply drawn from the Khari river during the kharif season at the head of the Khari Cut was at the rate of 18.56 cubic feet per second, and the area irrigated was 3,109 acres plus the area assessed on the Chandola Tank, *viz.* 242 acres, making a total of 3,351 acres; these figures give a duty of 180.55 acres per cubic foot of discharge at head.

10. The discharge at headworks during the rabi season was 4.82 cubic feet per second and the area irrigated was 17 acres, giving a duty of 3.53 acres per cubic foot. With so small a discharge the proportionate loss by evaporation, &c., is necessarily excessive.

11. A good beginning seems to have been made towards developing hot weather crop irrigation, the area of this crop during the year under report being 92 acres against 3 acres in 1894-95, while there was none in previous years.

12. The year under report has been a most favourable one from a revenue point of view, the realization having been the highest on record; and there is reason to believe that the improvement will prove permanent.

(13).—HARTÁLA TANK.

This tank has been in operation for 23 years. It commands a gross area of 584 acres in the village of Hartála, of which the net irrigable area is 415 acres. The full storage of the tank would suffice for the irrigable area, but the actual irrigation is very fitful as the work is situated in the cotton-growing district.

2. The depth of water in the tank had fallen to 7·90 feet on 20th June 1895, after which the first replenishment was received. Tank supply. The greatest depth of water reached was 8·50 feet on the 22nd September, this being 5·20 feet short of full supply. At the close of the year there was only 4·08 feet depth of water.

3. The rainfall of the year amounted to 18·61 inches against 34·71 inches of the previous year and 25·59 inches the average of the past 22 years. Rainfall.

4. The area irrigated during the year amounted to :— Area irrigated.

					Acres.
Kharif	...	...	...	...	15
Rabi	...	...	...	...	55
					—
				Total	70
					—

which is 16·86 per cent. only of the irrigable area commanded by the tank, as compared with 20 per cent. in the previous year. The falling off is in the rabi area owing to large cultivation of cotton.

5. The kharif areas consisted of 3 acres of fruit gardens, 10 acres of monsoon dry crops, 1 acre of chillies and 1 acre of ground-nut. The rabi crops were 53 acres of wheat and gram and 2 acres rájgira. The total value of these crops is estimated at Rs. 1,218.

6. The gross revenue from this tank during the year amounted to Rs. 1,127, or nearly double the amount of the previous year. Of this, water-rates amounted only to Rs. 154 and the revenue from other sources to Rs. 973. The increase is due to the sale of full grown bábul trees. Gross revenue.

7. The incidence of water-rate per acre during the year was Rs. 2-3-2 against Rs. 2-8-1 of the previous year. The decrease is due to the falling off in rabi irrigation.

8. The realization of revenue during the year amounted to :—

					Rs.
Water-rates	...	...	...	...	185
Miscellaneous	...	...	...	...	973
					—
				Total	1,158
					—

With the exception of the year's rabi assessments, Rs. 111, which were sent for realization after the close of the year, there is no outstanding of revenue.

Working expenses. 9. The working expenses during the year amounted to:—

				Rs.
In the Public Works Department	...	...	...	£64
In the Civil Department	...	...	...	30
			Total	394

against Rs. 1,030 in the previous year, in which some extensive repairs were carried out. This shows that the tank has to its credit during the year

				Rs.
By assessments	...	...	...	733
„ realizations	...	...	...	765

after paying the working expenses.

10. The cost of measurement of the area irrigated was Rs. 1-4-8 against Rs. 2-5-4 of the previous year, which gives a rate of Cost of measurement of crops. 3 pies per acre against 5 pies of previous year.

11. The actual area irrigated compares as shown below with the area applied for:—

				Kharif.	Rabi.
				Acres.	Acres.
Applied for	...	...	...	22	64
Actually irrigated	...	...	...	15	55
			Difference	7	9

Duty of water. 12. The duty of water is shown in Statement I—E attached to this report. There were no special observations.

Loss by evaporation and absorption. 13. The loss by evaporation and absorption was as follows:—

Kharif Season.

				Feet.
April, May and June, 70 days	...	...	...	= 2.55
July, August and September	...	...	...	= Nil.

Rabi Season.

October, November, December, 1895, and January 1896, 123 days	= 2.94
---	-----	-----	-----	--------

Hot Weather.

February and March, 60 days	...	...	...	= 1.21
			Total	6.70
			Average daily loss	.0265

(14).—MHASVA TANK.

This tank has been in operation for 19 years. The gross area under its command is 4,647 acres, of which the irrigable area is 1,700 acres. But owing to its situation in the cotton-growing part of the district the actual irrigation is very fitful.

2. The full supply depth of water in the tank is 22 feet. At the commencement of the year the depth of water was 18.61 feet, which fell to 15.42 feet on 9th June 1895, after which the tank received its first replenishment, and by 20th July 1895 it filled

to overflowing. The depth of water at the close of the year was 18.25. The supply was thus sufficient to meet the requirements of irrigation.

3. The rainfall of the year gauged at the tank amounted to 31.01 inches against 28.07 inches of the previous year and 29.00 inches, the average of the past 18 years. The monsoon or kharif rainfall was heavier than in the previous year, which made the monsoon crops independent of the tank water, and the heavy fall in September of 10.30 inches followed by a good fall in October also helped the rabi crops to grow independently of canal water. Late sowings in inferior land required watering from the tank.

4. The area irrigated during the year was as under :—

				Acres.
Kharif	...	...	...	18
Rabi	...	...	...	36
				—
Total				54
				—

against 127 acres of the previous year. This falling off in irrigation is explained by the nature of the year's rainfall described in the foregoing paragraph. The value of the crops grown during the year is estimated at Rs. 2,135.

5. The gross assessed revenue of the year was :—

				Rs.
Water-rates	...	...	...	230
Miscellaneous	...	...	...	327
				—
Total				557
				—

against Rs. 1,036 of the previous year. The diminution is due to less irrigation in the year and to no bábul wood having been sold.

6. The incidence of water-rate assessment per acre was Rs. 4-4-1 against Rs. 3-1-8 of the previous year. The increase in rate with less irrigation during the year is due to the proportion of the perennial crops to the low-rated crops being greater than in the previous year.

7. The revenue realized was—

				Rs.
From water-rates	...	...	...	380
,, other sources	...	...	...	327
				—
Total				707
				—

With the exception of the rabi assessments of the year, Rs. 72, which were sent for realization after the close of the year, there is no outstanding of revenue.

8. The working expenses amounted to :—

				Rs.
In the Public Works Department	...	...	...	1,102
In the Civil Department	...	...	...	19
				—
Total				1,121
				—

against Rs. 1,223 of the previous year.

9. The cost of measurements of the area irrigated was Rs. 4-6-0, which gives a rate of anna 1 and pies 3 per acre against 1 anna 1 pie in the previous year.

10. The area applied for was 53 acres or 1 acre less than that actually irrigated.

11. The scale of water-rates during the year under report was the same as in the previous year and the following table shows the classification of crops and the revenue assessed under that scale :—

No.	Crops.	Area irrigated.	Rate per Acre.	Assessment.
		Acres.	Rs.	Rs.
1	Perennial ...	16	10	149
2	Eight months ...	2	4	9
3	Four months ...	36	2	72
		54		230

There were also 3 acres of lift irrigation assessed at half the sanctioned rate.

12. The loss by evaporation and absorption was as under :—

Kharif Season.

April, May and June, 70 days Feet.
... .. 2.05

Rabi season.

November, December 1895, and January 1896—92 days ... 1.71

Hot Weather.

February and March 1896, 60 days 1.32

Total ... 5.08

Daily average loss0228

(15).—JAMDA CANALS.

These canals have been in operation for 29 years. The gross area under command is 46,288 acres, of which the area irrigable by the works as completed is 5,000 acres only.

2. The source of supply to these canals is the Girna River. Its discharge during the year under report was less than in the previous year, but was sufficient for all requirements. Care had to be taken in distributing the supply of water to the hot weather and perennial crops, the area under which was almost equal to that of the previous year.

3. The rainfall of the year in the kharif and rabi seasons is given in the following table in contrast with that of the same seasons in the previous year :—

	Kharif.		Rabi.	
	1894.	1895.		1895.
	Ins. cts.	Ins. cts.	Ins. cts.	Ins. cts.
<i>At Canal head.</i>				
Jámda Bungalow ...	20 71	23 15	3 66	0 96
<i>About middle of Canal.</i>				
Kolgaon Chauki ...	24 74	24 68	5 87	1 56
<i>At tail of Canal.</i>				
Bhádgaon Kacheri ...	29 47	34 71	4 62	1 22

The favourable kharif rain led to a falling off in the irrigation of monsoon dry crops and the decrease in the rabi rain caused an increase in the rabi areas.

Area irrigated.

4. The area irrigated during the year amounted to—

			Acres.
Kharif ... ..	...	...	743
Rabi ... ..	...	...	729
Total ...			<u>1,472</u>

against 1,148 acres of previous year. The increase is due to larger irrigation of monsoon wet and eight months crops and also of wheat and gram owing to short rain in the rabi season.

Gross revenue.

5. The assessments of the year from all sources are contrasted with those of the previous year in the following table :—

	1894-95.	1895-96.	Increase.	Decrease.
	Rs.	Rs.	Rs.	
Water-rates ...	7,744	8,212	468	
Miscellaneous ...	2,734	4,355	1,621	
Total ...	10,478	12,567	2,089	

The increase in water-rate is due to larger cultivation of hot weather and eight months crop as well as to a larger rabi area having been watered. The increase in miscellaneous revenue is due to large sale of full grown bábul trees.

6. The remissions during the year amounted to Rs. 24 and the realizations to—

			Rs.
Water-rates ... ..	...	...	7,270
Miscellaneous ... ..	...	...	4,355
Total ...			<u>11,625</u>

or Rs. 364 more than the amount realized last year.

7. The unrealized balance of assessed water-rates is Rs. 1,830, in addition to the rabi assessment of Rs. 1,610 sent for realization after the close of the year. Measures are being adopted to effect the recovery of the amount unrealized.

8. The average incidence of water-rate assessment per acre during the year under report was Rs. 5-9-3 against Rs. 6-11-11 in the previous year.

9. The following table contains a contrast of the year's working expenses with the amount of the previous year :—

	1894-95.	1895-96.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
<i>Direct Charges.</i>				
Original works ... ..	.....	.....	...	...
Repairs	3,071	3,721	650	...
<i>Establishment.</i>				
Direction	587	349	...	238
Construction	4,686	4,737	51	...
Tools and Plant	200	200	...	...
<i>Indirect Charges.</i>				
Leave and Pension allowance	738	712	...	26
Capitalization ... ..	.....	.....	...	...
Collection charges	426	363	...	63
Total ...	9,708	10,082	374	...

(16).—PARSUL TANK.

35

There was an increase of Rs. 374 during the year owing to certain repairs which had to be carried out to meet the requirements of irrigation. Notwithstanding this increase the gross revenue shows a margin of Rs. 2,485 over working expenses.

10. The cost of measurements of crops irrigated during the year on the two canals separately is given below:—

	Area irrigated.	Area measured.	Cost of measurement.	Rate per Acre.
	Acres.	Acres.	Rs. a. p.	Rs. a. p.
Left Bank Canal	1,061	471	49 10 4	0 1 8
Right Bank Canal	411	70	9 10 11	0 2 2

On the Right Bank Canal there was an increase in the perennial area, which required more elaborate and accurate measurements.

11. The area applied for amounted to 1,442 acres, whereas the actual irrigation was 1,472 acres. The difference of a little over 2 per cent. is due to under-estimates in water applications.

12. No special observations of the duty of water were taken during the year.

13. The expenditure on plantations during the year was Rs. 106 which brings the expenditure to end of the year to a total of Rs. 16,475. The number of trees on the canals has been reduced from 15,344 in the previous year to 11,568 during the year owing to large sales of bábul trees. Arrangement is being made to replace the deficiency by new plantation.

(16).—PARSUL TANK.

1. This tank has been in operation for seven years. During the year under report a survey of the area under command was made with the following result:—

Villages.	Gross Area commanded.	Culturable Area commanded.	Area irrigable by works as completed.
	Acres.	Acres.	Acres.
Umrána	1,439	1,358	400
Saundána	405	361	300
Nándgaon	1,493	1,478	300
Total	3,337	3,197	1,000

2. The tank works with the distributaries have been completed with the exception of the extension of the Saundána channel to irrigate the lands of Nándgaon. This was delayed pending settlement of the question of the formation of fixed bágáyat at Saundána and Umrána. The villagers have, however, now decided on the crop rate system, and the work of channel extension will be resumed to allow of irrigation at Nándgaon.

3. The tank supply during the year was sufficient to meet all demands. The storage in the tank at the commencement of the year was 70·37 million cubic feet, which fell to 42·49 million cubic feet on the 9th June 1895 when the tank received its first replenishment. The full storage was reached on 22nd September 1895 when water began to overflow the waste weir. The tank remained full up to 6th November 1895. At the end of the year the storage was 63·70 million cubic feet.

4. The rainfall of the year was 18·93 inches (kharif 16·47 and rabi 2·46) against 25·37 inches in the previous year and 21·77 inches, the average of the past thirteen years. By seasons the year's fall was as given below in comparison with that of the previous year:—

Seasons.		1895-96.	1894-95.
		Ins. cts.	Ins. cts.
Kharif	... ..	16 47	21 95
Rabi	... ..	2 46	3 42
Total	... ..	18 93	25 37

Although the rainfall in both the seasons was less than in the previous year, the irrigation was less during the year under report. This falling off was due to fear on the part of the villagers that all irrigated lands would be classed as *bágáyat* at the coming revision settlement, and they consequently restricted the area as far as possible.

5. The areas irrigated during the year amounted to 252 acres, distributed as under by seasons and villages, in comparison with those of the previous year:—

Villages.	Kharif.		Rabi.		Total.	
	1894-95.	1895-96.	1894-95.	1895-96.	1894-95.	1895-96.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Umrána...	77	57	102	64	179	121
Saundána	39	36	117	57	156	93
Nándgaon	...	15	28	23	28	38
Total	116	108	247	144	363	252

There was a falling off in the irrigation of fodder crops during the hot weather, 21 acres being irrigated during the year against 68 in the previous year. Owing to the shortness of rainfall in the kharif season 29 acres of *bájri* and 34 acres of *sesamum* crops had to depend upon the tank supply.

6. The total assessment of the year amounted to—

Water-rates	...	...	...	Rs. 902
Miscellaneous	...	...	...	25
Total				927

against Rs. 1,704 of the previous year. The falling off is due to less rabi and hot weather irrigation.

7. Remissions of Rs. 178-8-0 on account of Parsul tank water-rates, on *káyam bágáyat* land at Saundána, had to be granted during the year, as this land is entitled to water under the existing settlement to the end of February.

8. The realisations amounted to—

Water-rates	...	...	...	Rs. 1,125
Miscellaneous	...	...	...	26
Total				1,150

9. The outstandings amount to—

				Rs.
Kharif, 1895-96	...	...	...	3
Rabi, 1895-96	...	...	...	575
			Total	578

The first sum remained unrecovered because the Táluka Revenue Officer received order to realize it only after the close of the year. The rabi demands were sent for realization after the close of the year.

Working expenses. 10. The working expenses amounted to—

				Rs.
In the Public Works Department	...	...	...	1,024
In the Civil Department	...	...	...	56
			Total	1,080

is compared with Rs. 1,359 of the previous year.

11. The same scale of water-rates as in the previous year was in force during the year under report and is detailed in statement I—F. The perennial area was assessed at Rs. 11 per acre as explained in paragraph 12 of the report for 1894-95.

12. The year's irrigation may be classified as under :—

Crops.	Area.	Assessment.
	Acres.	Rs.
Kharif ...	65	65
Rabi (including 8 months' crops)	139	565
Hot weather (including perennial)	48	272
Total ...	252	902

Measurement of crops.

13. There was no separate charge for measurement of irrigated crops which was done by the canal kárkun.

Area applied for and irrigated.

14. The area applied for compares as below with actual irrigation :—

			Kharif.	Rabi.
			Acres.	Acres.
Area applied for	...	...	111	116
Do. actually irrigated	...	...	108	144
		Difference	— 3	+ 28

The difference is due to wrong estimates in water applications.

Evaporation and absorption. 15. The calculated loss by evaporation and absorption was as under :—

<i>Kharif Season.</i>			
April, May and June, 70 days	...	...	Feet. 5.77
<i>Rabi Season.</i>			
November, December 1895 and January 1896, 92 days	...	...	3.91
<i>Hot Weather.</i>			
February and March 1896, 60 days	...	...	3.52
		Total	13.20
		Average daily loss	.059

(17).—PRAVARA RIVER WORKS—OJHAR CANAL.

The area irrigated during the year was 1,896 acres, of which 577 were under kharif and 1,319 under rabi crops. The total shows an increase of 352 acres on the area of previous year. The area of kharif was 16 acres less and that of rabi 368 acres greater than in the previous year. The decrease in the kharif season is due to timely rainfall, which resulted in no water being taken for 492 acres for which applications had been submitted. It is also due to the decrease in area of perennial crops, as the cultivators were doubtful whether their applications for water for the perennial crops within $\frac{1}{4}$ mile of the villages would be sanctioned without undue delay, as they had to be referred to the Chief Engineer and Sanitary Commissioner before acceptance. Of this decrease 6 acres 20 gunthas were on account of rejection of applications for water for proposed new plantain gardens within the $\frac{1}{4}$ mile radius.

2. The following statement compares the area applied for and irrigated during the year :—

Year.	KHARIF.		RABI.		TOTAL.		DIFFERENCE LESS IRRIGATED.		
	Applied for.	Irrigated.	Applied for.	Irrigated.	Applied for.	Irrigated.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1895-96 ...	888	577	1,548	1,319	2,436	1,896	311	229	540

The area applied for but not irrigated is 22.17 per cent. of the total area applied for. The decrease in kharif season is due to good rainfall in July and September, which rendered canal water unnecessary.

3. The water-rate assessments amounted to Rs. 6,189 against Rs. 4,678 in the previous year.

The details are :—

					Rs.
Kharif ...	...	...	...	...	2,496
Rabi ...	...	...	...	...	3,693
				Total ...	6,189

The assessment under the old scale would have been Rs. 4,837. The introduction of higher rates and the orders regarding restriction of perennial irrigation within $\frac{1}{4}$ mile of all villages have unfavourably affected the revenue, but these causes are likely to have a temporary effect only.

4. Remissions amounting to Rs. 13-12-4 were granted during the year on account of erroneous assessments.

5. Refunds amounting to Rs. 12 were sanctioned during the year on account of wrong assessment.

6. The revised water-rates sanctioned in Government Resolution No. 110 A.I—607, dated 30th March 1895, were brought into force from 1st April 1895. They are to continue for five years, and compare with the previous rates as follows :—

	Old rate per Acre.			Revised rate per Acre.		
	Rs.	a.	p.	Rs.	a.	p.
Class I.—Perennial ...	8	0	0	10	0	0
Do. II.—Eight months ...	4	0	0	4	0	0
Do. III.—Four months ...	2	0	0	2	0	0
Do. IIIA.—Superior rabi crops ...	...	...	...	3	0	0
Do. IV.—Monsoon dry ...	0	8	0	0	8	0
Do. V.—Special hot weather ...	4	0	0	4	0	0

Area irrigated per mile of main canal and of main canal and branches.

7. The area irrigated per mile of main canal was kharif 30·37 and rabi 69·42 acres, and that of main canal and branches was kharif 14·42 and rabi 32·97 acres.

Comparison of area irrigated and revenue.

8. The following table compares the area irrigated and revenue derived during the previous three years with the figures of the year under report :—

Year.	Area irrigated.	Revenue from Water-rates.	Rainfall from 1st April 1895 to 31st March 1896.	
			In.	cts.
1892-93	1,100	3,471	37	72
1893-94	2,243	6,030	25	09
1894-95	1,544	4,678	25	46
1895-96	1,896	6,189	24	57

The rainfall was deficient in August and also in and after October.

9. The incidence of water-rate per acre was Rs. 3·26 against Rs. 3·03 in the previous year, the increase being due to revision of water-rates.

Water-rate per acre.

Working expenses.

10. The working expenses amounted to Rs. 14,230 as detailed below, against Rs. 28,766 in the previous year :—

			Rs.
Maintenance and repairs	...	...	3,196
Share of establishment	...	...	9,223
Tools and plant	...	...	255
Share of collection charges	...	...	253
Indirect charges	...	...	1,291
Refund of revenue	...	...	12
		Total	14,230

The rate of working expenses per mile of main canal open was Rs. 749, and per acre irrigated Rs. 7·51.

The expenditure on maintenance and repairs was Rs. 1,386 less than in 1894-95, most of which saving is due to no special clearance work having been carried out as in the previous year.

The cost of tools and plant increased from Rs. 122 to Rs. 255, or by Rs. 133 over that of 1894-95. As a large number of tools had been lying on this canal useless for want of repairs, the greater part of the allotment for the district was expended on them.

11. The total cost of measurement of 1,516 acres (excluding 380 acres sub-divided) during the year was Rs. 150, or 1 anna and 7 pies per acre, as compared with 1 anna and 9 pies per acre last year.

Cost of measurement.

12. The duty per cubic foot per second of water admitted into the canal was 15·72 acres in the kharif and 33·97 acres in the rabi season. That of water actually utilized was 19·79 acres in the kharif and 56·25 acres in the rabi season.

Duty of water.

13. The rainfall, as gauged at Ashvi, was kharif 22·73, rabi 1·84, total 24·57 inches, or 1·41 inches more than the average of the last five years.

Rainfall.

14. The supply of water in the river was more than sufficient to meet all requirements for kharif and rabi. In January 1896 a temporary earthen bund was constructed on the weir

River supply.

as usual to increase backwater during the hot weather of 1896-97. The discharge of the river on 31st March 1896 was 15 cubic feet per second against 40.50 on the same date in the previous year. A project for a storage reservoir to increase the hot weather supply is under consideration.

15. At the end of the year the number of trees on this canal was 13,783. The numbers of principal kinds were:—

Plantation.					
Bábul	...	...	10,610	Bakan	... 35
Mango	...	...	930	Jámbul	... 199
Do. grafts	...	...	52	Sandal	... 89
Orange	...	...	29	Nimb	... 1,586
Bor	...	...	153	Bamboo	... 46
Moho	...	...	4	Kyene	... 2
Siras	...	...	4	Miscellaneous trees	... 44

The total number last year was 13,105.

16. The canal was closed five times for silt and weed clearance, for periods aggregating 23 days. It was also closed for 13 days more on account of rains in July and August 1895.

Canal closure.

(18).—BHATODI TANK.

The area irrigated during the year amounted to—

Area irrigated.					Acres.
Kharif	...	...	...	...	86
Rabi	...	...	...	...	791
				Total	877

The areas of the preceding year were 517 acres kharif and 1,181 acres rabi, but subsequent enquiries proved that 37 acres kharif and 65 acres rabi, which had taken no water, had been wrongly included. Deducting these, the areas of the two years compare as follows:—

			1894-95.	1895-96.	Difference less.
			Acres.	Acres.	Acres.
Kharif	...	...	480	86	394
Rabi	...	...	1,116	791	325
			Total decrease	...	719

The reasons for the decrease are, good rainfall during the kharif season, increase in rates which came into force this year, and doubts entertained by the cultivators as to whether their applications for cultivation within the $\frac{1}{4}$ th mile radius of villages would be sanctioned or refused on sanitary grounds: see Government Resolution No. 154 W.-I.—1769, dated 18th November 1895. These causes of decrease are not likely to influence the area under irrigation in succeeding years.

2. The area applied for was 831 acres (kharif 60 acres and rabi 771 acres) and the area irrigated was 877 acres. The difference is due principally to errors in entering areas of *pót* numbers in water applications.

Comparison of area applied for and irrigated.

3. During the year the water-rate assessments amounted to Rs. 3,271; detailed as below, against Rs. 5,467 in the previous year:—

Water-rate assessments.

					Rs.
Kharif	...	...	...	...	727
Rabi	...	...	...	...	2,544
				Total	3,271

The assessment under the old scale would have been Rs. 2,540. The reasons for the decrease are given in paragraph 1, and another reason is the large falling off in the area of ground-nuts which fell from 372 acres to 63 acres. There was no increase in water-rates for ground-nuts, and the reason for the falling off is not known.

4. Remissions amounting to Rs. 308-0-5 were sanctioned during the year on account of erroneous assessments for 1894-95. These were necessitated by the incompetence and dishonesty of the Canal Inspector who was dismissed in September 1895.

5. Refunds amounting to Rs. 262 were sanctioned during the year on account of erroneous assessment, but Rs. 146 only were repaid during the year; the remaining amount will be paid in 1896-97.

6. The revised water-rates sanctioned in Government Resolution No. 154 A.I.—893, dated 7th June 1895, were brought into force since 16th October 1895. They are to continue for five years, and compare with the previous rates as follows:—

	Old rate per Acre.	Revised rate per Acre.
	Rs.	Rs.
Class I.—Perennial	12	12
Do. II.—Eight months	4	4
Do. III.—Four months	2	3
Do. IV.—Monsoon dry	1	1
Do. V.—Special hot weather	4	4

7. The following table compares the areas irrigated and the revenue derived during the previous three years with the figures of the year under report:—

Year.	Area irrigated.	Revenue from Water-rates.	Rainfall from 1st April 1895 to 31st March 1896.
	Acres.	Rs.	Ins. cts.
1892-93	1,337	4,038	46 63
1893-94	1,613	5,173	31 50
1894-95	1,698	5,467	28 55
1895-96	877	3,271	24 65

The increase of rates from Rs. 2 to Rs. 3 may have affected the area of jowári and gram, which fell from 690 acres to 431 acres and from 245 acres to 153 acres respectively, while ground-nuts, on which there was no increase in water-rate, fell from 372 acres to 63 acres.

8. The incidence of water-rate per acre was Rs. 3-73 against Rs. 3-22 in the previous year. The increase is due to the revision of water-rates.

9. The working expenses amounted to Rs. 9,101 detailed as below, against Rs. 12,281 in the previous year:—

	Rs.
Maintenance and repairs	2,043
Share of establishment	5,761
Tools and plant ... ..	...
Share of collection charges	344
Indirect charges	807
Refund of revenue	146
Total	9,101

The rate of working expenses per mile of main canal open was Rs. 2,022 and per acre irrigated Rs. 10.38. The expenditure on repairs to head-works was reduced from Rs. 681 to Rs. 566. This item includes expenditure on account of raising a temporary dam across waste weir channel, and saving was on this dam. The cost of repairs to masonry works increased from Rs. 99 to Rs. 152; this was due to the necessity of replacing the teakwood planks of many of the escapes, the old ones having become unsound and incapable of being rendered water-tight; there was also increased expenditure on earth-work—main canal—amounting to Rs. 89, due to the necessity for clearance to parts of the canal in 2nd, 3rd and 4th miles and of Rs. 31 on earth-work—branch canals. The total expenditure for maintenance and repairs exceeded that of the previous year by Rs. 80.

The increase of Rs. 64 under collection charges is due to the increase in the amounts to be collected during the year.

10. The duty per cubic foot per second of water actually utilized was 18.70 acres in the kharif and 123.40 acres in the rabi season.

11. The cost of measurement of 90 acres (excluding 787 acres subdivided) was Rs. 9-15-0 or Re. 0-1-9, against Rs. 30 or Re. 0-3-10 per acre last year.

Cost of measurement.

12. The rainfall as gauged at Bhatodi was kharif 23.51, rabi 1.14, total 24.65 inches, or 2.02 inches less than the average of the last five years.

Rainfall.

13. On the 1st April 1895 the water in the tank stood at 11.85 feet above sill of outlet, *i. e.* 6.25 lower than on the same date in the previous year. The first replenishment was on 11th June 1895; water rose from R. L. 76.88 to 76.90. The highest R. L. of water in the tank was 93.60 on 21st October, *i. e.* 1.10 feet above the crest of the waste weir. On 31st March the R. L. of water was 87.34 against 81.90 on the same date in the previous year. The supply of water in the tank was ample.

Water-supply.

14. On 31st March 1896 the number of trees on the canal was 11,537 as compared with 7,681 in the previous year. The numbers of principal kinds were:—

Plantation.

Mango	...	836	Jambul	...	111
Do. grafts...	...	41	Nimb	...	425
Bor	...	216	Sandal	...	264
Orange	...	18	Siras	...	102
Bábul	...	8,344	Tamarind	...	40
Miscellaneous...	...	1,140			

(19).—MATOBA TANK.

The water in this tank stood at 17.83 feet above sill of outlet on 1st April 1895. The draw-off for irrigation reduced the supply until 4th June, when it stood at 8.85. From the 5th June it commenced to be replenished, and filled to overflowing on the 2nd August, and on the 31st March 1896 the level was 19.44 above sill of outlet, or 1.50 feet higher than on the same date in the previous year.

Tank supply.

2. The area irrigated from the tank during the year was 1,163 acres, of which 840 acres were under kharif and 323 acres under rabi crops. The total shows a decrease of 252 acres as compared with that of the previous year, and is due to favourable rainfall. The assessments of water-rates amounted to Rs. 8,971 and the miscellaneous revenue to Rs. 116, making a total of Rs. 9,087 against Rs. 10,079 in the previous year. The cause of the decrease is chiefly due to the reduction in the area of sugarcane, as explained in para. 3 of the Mutha Canals Report. The incidence of water-rates was Rs. 7.68 per acre irrigated against Rs. 7.00 in the previous year.

Area irrigated and assessments.

Cost of measurement.

3. The cost of measurement amounted to Rs. 63 for an area of 1,163 acres, or at the rate of 10 pies per acre.

4. The working expenses amounted to Rs. 3,014, which represents a rate per mile of canal in operation of Rs. 177.29, or 2.58 per acre irrigated.

Working expenses.

5. The following statement shows the duty of water ascertained from special observations of discharge and area actually under irrigation during the months referred to:—

Duty of water.

Month.				Discharge Cubic feet per second.	Area irrigated	Duty in Acres per Cubic foot per second.
1895	...	{ April ...	...	8.01	374	46.69
		{ May ...	...	7.70	353	45.84
1896	...	{ January ...	...	8.79	662	75.31
		{ February ...	...	8.13	408	50.18

Area irrigated and applied for.

6. The following is the comparison of areas irrigated and applied for:—

AREA APPLIED FOR.			AREA IRRIGATED.			MORE.		LESS.	
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Kharif.	Rabi.
1,019	531	1,550	840	328	1,168	...	...	179	203

Decrease due to favourable rainfall.

(20).—KÁSURDI TANK.

During an unusually heavy storm, on the night of 9th June 1895, the Kásurdi tank dam was breached and the necessary repairs were in progress during this year at an estimated cost of Rs. 3,001.

Tank supply.

Area irrigated and assessments.

2. The area irrigated was 3 acres of rabi only on leakage water.

The assessments amounted to Rs. 54, of which Rs. 8 were on account of water-rates and Rs. 46 for miscellaneous revenue.

3. The working expenses amounted to Rs. 3,766. The excess was due to expenditure on special repairs to the dam and proportionate charge for establishment on the increased outlay.

Working expenses.

(21).—SHIRSUPHAL TANK.

On the 1st April 1895 there was no water in the tank, and it remained empty till the 25th May 1895. The tank was replenished on the 26th May and water rose to 11.00 above the outlet sill on that day; the draw-off commenced from the same date and on 6th September water stood at 7.88 feet. Between September and November the water rose to 25.75 feet above outlet. The draw-off commenced from 10th November, and on 31st March 1896 the water stood at 19.55 feet.

Tank supply.

2. The area irrigated was 131 acres of kharif and 589 acres of rabi, making a total of 720 acres against 177 acres in the previous year. The increase was due to increased supply of water in the tank for rabi crops. The assessments of water-rates amounted to Rs. 2,064, and the miscellaneous revenue to Rs. 173, making a total of Rs. 2,237 against Rs. 1,304 in the previous year.

3. The cost of measurement amounted Rs. 15 for an area of 720 acres, or at the rate of 4 pies per acre.

4. The working expenses amounted to Rs. 2,692, which represents a rate for maintenance per mile of canal in operation of Rs. 215.36 and Rs. 3.74 per acre irrigated.

5. The following is the comparison of areas irrigated and applied for :—

AREA APPLIED FOR.			AREA IRRIGATED.			MORE.		LESS.	
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Kharif.	Rabi.
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
168	520	688	131	589	720	...	69	37	...

The difference is due to approximate areas being given by the cultivators in their applications for water.

6. To ascertain the loss by evaporation and leakage from the tank during the year, gaugings were taken for broken periods during the months of May 1895 to September 1895 and November 1895 to March 1896, or a total number of 252 days. During this period the loss amounted to 75,906,304 cubic feet, or nearly $\frac{1}{4}$ th of the total capacity of the tank above outlet level. The tank was empty up to 25th May 1895.

(22).—BHĀDALVĀDI TANK.

At the beginning of the year the water level stood at 20.07 feet above the outlet sill, or 9.17 feet higher than on the same date in the previous year. The tank filled to overflowing on the 15th September 1895. The draw-off commenced from 21st October, and at the close of the year, 31st March 1896, the water level stood at 28.25, or 8.08 feet higher than on the same date in the previous year.

2. The areas irrigated were 313 acres of kharif and 523 acres of rabi, making a total of 836 acres against 299 acres in the previous year. The increase was due to good supply of water in the tank.

The assessments of water-rates amounted to Rs. 2,292 and the miscellaneous revenue to Rs. 8, making a total of Rs. 2,300 against Rs. 746 in the previous year.

3. The cost of measurement amounted to Rs. 41 for an area of 836 acres, or at the rate of 9 pies per acre.

4. The working expenses amounted to Rs. 1,968, which represents a rate of Rs. 201.85 per mile of canal in operation and Rs. 2.35 per acre irrigated.

5. The following is the comparison of areas irrigated and applied for :—

AREA APPLIED FOR.			AREA IRRIGATED.			MOBN.		LESS.	
Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Kharif.	Rabi.
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
466	470	936	313	523	836	...	53	153	...

The difference is due to approximate areas being given by the cultivators in their applications for water.

6. To ascertain the loss by evaporation and leakage from the tank during the year gaugings were taken for broken periods during April 1895 to March 1896, or a total number of 310 days. During this period the loss amounted to 57,120,196 cubic feet, or $\frac{1}{4}$ th of the total capacity of the tank above outlet level.

(23).—KOREGAON TANK.

The rainfall for the year under report was 43.95 inches (kharif 41.75 and rabi 2.20) against 23.10 inches of the previous year (kharif 21.20 and rabi 1.90).

2. The lowest water level in the tank was 83.60 on 19th June 1895, representing a depth of water of 3.60 feet over the sill of canal sluice. Replenishment commenced on 22nd June 1895, and the waste weir began to overflow on 20th September 1895.

3. The area irrigated during the year was 343 acres (kharif 51 and rabi 292) against 391 acres of the previous year (kharif 85 and rabi 306). The area applied for was 57 acres and 305 acres of kharif and rabi respectively. The difference between the areas applied for and areas actually irrigated is due to the cultivators being ignorant of the areas of their fields.

4. The assessment on account of water-rates was Rs. 850 against Rs. 1,150 of the previous year. The gross revenue from all sources amounted to Rs. 890 against Rs. 1,175 of the previous year. The decrease is due to a smaller area being irrigated during the year.

5. The following table gives a comparison with previous seven years:—

Years.	Kharif.	Rabi.	Total.	Water-rates.	Gross Revenue.	Working Expenses.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
1888-89	151	79	230	714	1,289	757.
1889-90	13	323	336	743	746	895
1890-91	121	99	220	590	599	773
1891-92	66	363	429	1,061	1,073	886
1892-93	47	255	302	769	779	1,087
1893-94	94	258	352	1,006	1,015	822
1894-95	85	306	391	1,150	1,175	730
1895-96	51	292	343	850	890	815

The decrease under kharif of 34 acres in 1895-96, as compared with the previous year, was due to insufficient storage of water in the tank. The

decrease under rabi is small (14 acres), and is due to favourable rainfall during that season.

6. The working expenses, including indirect charges, were Rs. 815, of which Rs. 365 were for maintenance and repairs, representing Rs. 97 per mile of canal, which is 3½ miles in length, against Rs. 83 of the previous year. The increase was on account of extra repairs to the dam and the canal during the year.

7. The area irrigated was measured at a cost of Rs. 40 or at anna 1 and pies 10 per acre measured.

8. The rainfall over 4.40 square miles of the catchment area from 1st June to 31st October 1895, was 43.95 inches, which gives 449.26 millions of cubic feet of water as having fallen on the catchment area. Forty-four per cent. of this ran off into the tank. The run-off from 1st June to 20th September 1895, on which date the waste weir began to overflow, was 0.32.

9. There were no new plantations made during the year.

10. No special experiments were made during the year for ascertaining the duty of water required for different kinds of crops.

(24).—ASHTI TANK.

The rainfall for the year under report was 29.55 inches (kharif 25.60 and rabi 3.95 inches) against 21.70 inches of the previous year (kharif 19.30 and rabi 2.40 inches), and was seasonable.

2. The lowest water level in the tank was 1,535.90 prior to replenishment, and the depth of water over sill of canal sluice was 8.30 feet. The tank commenced to fill on 8th July 1895, and the cut in the waste weir began to overflow on 8th September 1895.

3. The area irrigated during the year was 1,323 acres (kharif 486 and rabi 837) against 1,459 acres of the previous year (kharif 645 and rabi 814). The area actually irrigated was nearly the same as that applied for. The land under command being subdivided into smaller irrigation numbers, the cultivators know the exact area of land to be irrigated.

4. The assessment on account of water-rates was Rs. 3,977 against Rs. 4,717 of the previous year. The gross revenue from all sources amounted to Rs. 4,545 against Rs. 5,136 of the previous year. The decrease is due to less area irrigated under kharif during the year.

5. The following statement compares the results of the year with those of the previous seven years:—

Years.	Kharif.	Rabi.	Total.	Water-rates.	Gross Revenue.	Working Expenses.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
1888-89	980	1,437	2,417	4,598	4,990	7,981
1889-90	829	618	1,447	4,523	5,068	5,774
1890-91	576	648	1,124	3,284	4,294	5,151
1891-92	559	1,143	1,702	4,610	6,200	5,333
1892-93	677	437	1,114	4,176	4,687	7,528
1893-94	711	487	1,198	3,860	4,207	5,440
1894-95	645	814	1,459	4,717	5,136	3,953
1895-96	486	837	1,323	3,977	4,545	3,918

There was a decrease of 159 acres in kharif and an increase of 23 acres in rabi as compared with the previous year. The decrease is due partly to unfavourable rainfall at the commencement of the monsoon season for sowing ground-nut, and partly to the cultivators not having sown ground-nut owing to the number of wild pigs in some of the villages under command. The increase in rabi is very small, and requires no explanation. The revenue from sources, other than water-rates, was Rs. 568, and was on account of land let out for cultivation and grazing, sale of aloe leaves and trees, &c. The incidence of water-rate per acre irrigated was Rs. 3 against Rs. 3.23 of the previous year.

6. The working expenses, including indirect charges, were Rs. 3,918, of which Rs. 2,360 were spent for maintenance and repairs, including special repairs to canals, representing a charge of Rs. 80 per mile of canal against Rs. 70 in the previous year, the length of canals, branch canals and distributaries being $29\frac{1}{2}$ miles. The increase was due to special repairs to canals costing Rs. 268.

7. No measuring charges were incurred as the lands under command have been subdivided into smaller *pôt* numbers for irrigation purposes.

8. The rainfall over 92 square miles of catchment area of the tank was gauged at two stations, and the average rainfall was 30.65 inches against 21.62 of the previous year. The run-off into the tank is calculated to have been 0.40 of the rainfall from 1st June to 31st October 1895. The run-off from 1st June to 8th September 1895, on which date the cut in the waste weir began to overflow, was 0.30.

9. The following figures show the storage of water and loss by evaporation and absorption during the year:—

	Cubit feet.
Quantity of water in tank on 31st March 1895 plus the quantity that flowed into the tank during the year	3,119,107,415.50
Quantity of water discharged through canals and over waste weir	1,622,532,752.00
Balance of water in tank on 31st March 1896 ...	838,180,734.50
	2,460,713,486.50
Quantity lost by vaporation and absorption ...	658,393,929.00

10. No new trees were planted during the year. The system mentioned in the Mhasvad Tank Report regarding new plantations and sales of existing trees, applies to this tank also. The existing trees on the tank contour and canals on 31st March 1896, were 52,932 in number as detailed below. Of these, 38,854 were over 5 feet and 14,078 under 5 feet in height detailed as below:—

Names of Trees,	Number above 5 feet in height.	Number under 5 feet in height.
Mango	505	130
Jambul	221	22
Nimb	1,945	150
Sindi	190	150
Bori	75	7
Babul	35,000	13,600
Orange	70	...
Tamarind	73	...
Guava	16	...
Miscellaneous	759	19
Total ...	38,854	14,078
Total number of trees ...	52,932	

- 11, Special experiments were made to determine the duty of water required to mature certain kinds of crops, and the results were as under :—

One cubic foot of water per second was found sufficient to irrigate 91 acres of sugarcane, 172 acres of ground-nut, 166 acres of inferior rice, 125 acres of jod wheat.

(25).—REVÁRI CANAL.

The Capital Account of this canal was closed on 31st March 1893.

The only expenditure that was incurred on it during the year was Rs. 189 paid by the Civil Department on account of land taken up for the extension of the canal—*vide* note explaining the differences between the sanctioned and actual expenditure under II.—Main Canal and Branches, B.—Land, in the completion report of the work.

2. The rainfall, as gauged at Revári near the head-works, is shown in the following table :—

Years.	Kharif.	Rabi.	Total.
	Ins. cts.	Ins. cts.	Ins. cts.
1895-96	21 66	10 24	31 90
1894-95	27 91	3 85	31 76
Average, 1891-94 ...	22 34	5 82	28 16

3. The area irrigated, the assessments, working expenses and average water-rate as compared with the average of the previous four years were :—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Rs.	Rs.
1895-96	141	1,628	1,083	4,054	1,224	5,682	4 64	3,464
Average, 1891-92 to 1894-95	219	2,400	966	3,077	1,185	5,477	4 70	1,837
Increase ... ..	...	...	117	977	39	205	...	1,627
Decrease	78	772	...	...	...	...	0 06	...

4. As compared with the average of the previous four years there is a decrease of 78 acres in area and of Rs. 772 in assessment in the kharif and an increase of 117 acres in area and of Rs. 977 in assessment in the rabi. The net increase in the water-rate assessment is Rs. 205 over the average of previous four years. But compared with the last year there is a decrease of Rs. 902 in assessment, which is due to timely and sufficient rainfall. Remissions of Rs. 27 and Rs. 38 were granted in the kharif and rabi seasons, respectively—*vide* Government Resolution No. 3610, dated 23rd August 1865.

5. The principal crops irrigated during the year were as follows compared with the previous four years :—

Name of crop.	Area irrigated, 1895-96.	Average area of the previous four years.
	Acres.	Acres.
Sugarcane	52	91
Wheat	124	134
Ground-nut	369	555
Jowári	577	309

6. The area irrigated was 34 per cent. of that irrigable and 15 per cent. less than that applied for.

7. The working expenses, including direct and indirect charges, amounted to Rs. 3,464 against Rs. 1,938 in the previous year, and are 60 per cent. of the gross revenue. The rate per mile of canal was Rs. 693 and the rate per acre irrigated was Rs. 2.83 as compared with Rs. 387 and Rs. 1.26 for the previous year.

The excess expenditure during the year is partly due to works of the nature of original works having been charged to the Revenue Account, viz. :—

	Rs.
Constructing trough aqueduct	198
Constructing masonry escape with iron sluice doors ...	317
Constructing 2 modales	175
Sub-dividing the irrigated lands of the Revári village ...	63
Total ...	753



and in addition to this a sum of Rs. 503 was spent on special silt clearance.

8. The operations of the year show a net profit of Rs. 2,332, or 4 per cent. on the direct capital outlay of Rs. 56,771. This being an old native work the whole cost of construction is not included in the capital outlay.

9. The average water-rate and cost of measurement, as compared with the previous years, were as follows :—

Average water-rate and cost of measurement.

Years.	Area irrigated.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT AND REVENUE ESTABLISHMENT.	
			Total Cost.	Per Acre.
	Acres.	Rs.	Rs.	Rs. a. p.
1892-93	1,011	4.15	181	0 2 9
1893-94	1,348	4.64	217	0 2 7
1894-95	1,541	4.27	271	0 2 9
1895-96	1,224	4.64	316	0 4 2

Excluding the charge for Revenue Establishment, the cost of crop measurement alone was Rs. 233, which is equal to Re. 0-3-1 per acre against Rs. 187, or Re. 0-1-11 per acre for 1894-95.

10. The average duty of water obtained was for the kharif season 21 acres and for the rabi season 160 acres per cubic foot per second.

11. The number of trees of all classes on the canal at the beginning of the year was 1,729 and at the end of the year 1,776.

The principal varieties are bábul 1,188, jámbul 139, mango 106 and bamboo 124. The net revenue from plantation was Rs. 87,

(26).—UPPER MA'N RIVER WORKS,

The Capital Account of this project was closed on the 31st March 1892. The only expenditure incurred during the year was Rs. 120 paid by the Civil Department on account of acquiring land likely to be damaged by the floods from the Pingli Tank.

2. The rainfall, as gauged at Gondwli, the centre of the irrigated area, is shown in the following table:—

Years.	Kharif.	Rabi.	Total.
	Ins. cts.	Ins. cts.	Ins. cts.
1895-96	19 10	4 18	23 28
1894-95	15 28	4 90	20 18
Average, 1891-94 ...	13 54	6 31	19 85

3. The area irrigated, the assessment, working expenses and average water-rate were as follows:—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Rs.	Rs.
1895-96	723	4,072	912	2,592	1,635	6,664	4.08	5,193
Average, 1891-92 to 1894-95	756	3,368	547	1,899	1,303	5,267	4.04	4,710
Increase ... ..	...	704	365	693	332	1,397	0.04	483
Decrease	33	...	...	...	...	...	...	...

4. As compared with the average of the previous four years, there is a decrease of 33 acres in area and an increase of Rs. 704 in assessment in the kharif season and an increase of 365 acres in area and of Rs. 693 in assessment in the rabi season. The assessment of the year under report is Rs. 1,397 more than the average of past four years, but is nearly equal to that of 1894-95. The area irrigated was 21 per cent. of the irrigable area and 4 per cent. in excess of that applied for.

Principal crops.

5. The principal crops irrigated during the year were as follows compared with the previous four years:—

Name of Crop.	Area irrigated in 1895-96.	Average of the previous four years.
	Acres.	Acres.
Sugarcane	92	67
Wheat	226	271
Jowári	567	229
Ground-nut	287	203

6. The revenue from all other sources amounted to Rs. 112, bringing the gross revenue of the year to Rs. 6,776.

7. The working expenses, including direct and indirect charges, amounted to Rs. 5,193 against Rs. 4,239 for 1894-95. The rate per mile of canal was Rs. 297 and per acre irrigated Rs. 3.18. The working expenses amounted to Rs. 77 per cent. on the gross revenue. The excess expenditure during the year under report is due to Rs. 788 spent on special repairs to the Pingli Tank and Canal, consisting of removing silt from canal and repairs to banks, &c., and the construction of a Famine Memorial Tablet at a cost of Rs. 136.

8. After deducting working expenses from the gross revenue, there was a net profit of Rs. 1,583, equal to a rate of 0.38 per cent. on the outlay of Rs. 4,07,541.

Average water-rate and cost of measurement.

9. The average water-rate and cost of measurement, as compared with the previous three years, were as under :—

Years.	Total area irrigated.	Average incidence of water-rate per Acre.	COST OF MEASUREMENT AND REVENUE ESTABLISHMENT.	
			Total Cost.	Per Acre.
	Acres.	Rs.	Rs.	Rs. a. p.
1892-93... ..	1,039	2.90	303	0 4 8
1893-94... ..	1,490	4.75	474	0 5 1
1894-95... ..	1,294	5.16	414	0 5 1
1895-96... ..	1,635	4.08	432	0 4 3

Excluding the charge for revenue establishment, the cost of crop measurement alone was Rs. 298, or Re. 0-2-11 per acre, against Rs. 175, or Re. 0-2-2 per acre, for the previous year.

10. The average duty of water obtained was for kharif 209 acres and for rabi 174 acres per cubic foot per second.

11. The following table shows the principal levels of the Pingli Tank which serves the system of canals :—

Particulars.	Height above M. S. L.	REMARKS.
Water level on 31st March 1895	2363.58	
Do. 8th July 1895	2353.09	
Do. 25th September 1895	2371.19	
Do. 31st October 1895	2371.19	
Do. 31st March 1896	2363.25	
Outlet sill	2342.09	
Full supply level	2371.09	

There were no waste weir floods over 2' deep during the year.

12. The number of trees of all classes on the canal at the beginning of the Plantations. year was 5,003, and at its close 5,166.

The principal varieties are bábul 4,944, jámbul 32, saundad 20, mango 21, &c. The net revenue from plantation was Rs. 61.

(27).—YERLA RIVER IRRIGATION WORKS.

The works (1) Reconstructing a portion of Nehr Tank Dam, (2) Nehr Tank Service Road, (3) Special repairs to Nehr Store, and (4) Famine Memorial Pillar, Nehr Tank, were in progress last year and were all of them completed during the year under report, with the exception of No. 1. The expenditure incurred on them during the year was Rs. 6,360 on "Works."

Rainfall.

2. The rainfall, as gauged at Khatgun near the head of the irrigated area, is shown in the following table :—

Years.	*Kharif.	Rabi.	Total.
	Ins. cts.	Ins. cts.	Ins. cts.
1895-96	18 42	10 18	28 60
1894-95	23 49	5 91	29 40
Average, 1891-94	21 08	7 23	28 31

3. The area irrigated, the assessment, working expenses and average water-rate were as under :—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expense.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1895-96	773	4,166	1,834	4,907	2,607	9,073	3.48	6,418
Average, 1891-92 to 1894-95 ...	513	3,020	1,592	4,868	2,105	7,888	3.75	10,636
Increase	261	1,146	242	39	502	1,185	...	...
Decrease ... ..	...	...	...	...	...	...	.27	4,218

4. As compared with the average of the previous four years there was an increase in area in both the seasons. This is principally due to the unfavourable rainfall in the kharif season. The replenishment to the Nehr Tank during the monsoon was good and the supply lasted throughout the hot season. During the year under report although the supply was certain and the people were given assurance of the same, yet the cultivators having failed with their sugarcane crop during the previous two or three years thought it wiser not to sow sugarcane.

Remissions to the extent of Rs. 6 were granted in the kharif season—*vide* Government Resolution No. 107 W.-I.—327 of 22nd August 1877. The revenue from other sources was Rs. 1,383 and the gross revenue Rs. 10,456.

Principal crops.

5. The principal crops irrigated during the year were as follows compared with the average of the previous four years :—

Name of crop.	Area irrigated, 1895-96.	Average area of the previous 4 years.
	Acres.	Acres.
Ground-nut	930	712
Jowári	1,124	620
Wheat	154	274
Sugarcane	58	58

6. The area irrigated was 24 per cent. of that irrigable and 9 per cent. in excess of that applied for.

7. The working expenses, including direct and indirect charges, amounted to Rs. 6,418 against Rs. 23,752 for 1894-95. The expenses represent a rate of Rs. 224 per mile of canal open and Rs. 2.46 per acre irrigated, and amount to 61 per cent. of the gross revenue.

Average water-rate and crop measurement.

8. The average water-rate and cost of the measurement as compared with the previous three years were as under :—

Years.	Total area irrigated.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT AND REVENUE ESTABLISHMENT.	
			Total cost.	Per Acre.
	Acres.	Rs.	Rs.	Rs. a. p.
1892-93	1,831	3.48	466	0 4 1
1893-94	1,958	3.57	527	0 4 4
1894-95	2,385	3.66	556	0 3 8
1895-96	2,607	3.48	681	0 4 2

Excluding the charge for the revenue establishment, the cost of crop measurement alone was Rs. 503, or Re. 0-3-1 per acre, against Rs. 216, or Re. 0-1-5 per acre, for 1894-95.

Duty of water.

9. The average duty of water obtained was for kharif 95 acres and for rabi 192 per cubic foot per second.

Tank supply.

10. The following table shows the principal levels of Nehr Tank :—

Particulars.	M. S. L.	REMARKS.
Water level on 31st March 1895	2,648.51	
Do. 3rd June 1895	2,643.23	Lowest pre-monsoon level.
Do. 21st October 1895	2,661.20	Highest monsoon level.
Do. 31st December 1895	2,657.50	Level at end of monsoon.
Do. 31st March 1896	2,649.73	
Outlet sill	2,634.02	
Full supply level	2,666.02	

There were no waste weir floods over 2' deep during the year. The general character of the supply and replenishments during the monsoon was fairly satisfactory.

11. The number of trees of all classes on the canal at the beginning of the year was 30,715 and at its close 24,756. The principal varieties are bábul 17,538, mango 4,257, karanj 533, jámbul 148, teak 90 and bamboo 345. The net revenue from plantation was Rs. 1,178.

(28).—CHIKHLI CANAL.

Capital Account.

The Capital Account of this canal was closed on 31st March 1883,

Rainfall.

2. The rainfall, as gauged at Chhikli near the head of the irrigated area, is shown in the following table :—

Year.	Kharif.		Rabi.		Total.	
	Ins.	cts.	Ins.	cts.	Ins.	cts.
1895-96	17	50	4	86	22	36
1894-95	15	03	4	93	20	02
Average, 1891—1894	14	92	6	81	21	73

3. The area irrigated, the assessments, working expenses and average water-rate as compared with the average of the previous four years were as follows :—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Rs.	Rs.
1895-96	322	1,462	55	194	377	1,656	4.39	967
Average, 1891-92 to 1894-95 ...	251	1,319	108	400	359	1,719	4.78	852
Increase	71	143	...	...	18	...	...	115
Decrease ... ..	...	...	53	206	...	63	0.39	...

4. This year there was an increase in the area of 71 acres and of Rs. 143 in the revenue in the kharif season over the average of the preceding four years; while in the rabi season there was a decrease in both area and revenue of 53 acres and Rs. 206 respectively. The net decrease in the water-rate assessment is Rs. 63 as compared with the average of the previous four years.

Area irrigated and assessment.

Principal crops.

5. The principal crops irrigated during the year were as follows compared with the previous four years :—

Name of crop.	Area irrigated, 1895-96.	Average area of the previous four years.
	Acres.	Acres.
Sugarcane	27	29
Wheat	8	28
Ground-nut... ..	186	150

6. The area irrigated was 26 per cent. of the irrigable area and 7 per cent. less than that for which applications were received.

7. Revenue from other sources was Rs. 44 and the gross revenue amounted to Rs. 1,700.

8. The working expenses, including direct and indirect charges, were Rs. 967, and represent 57 per cent. on the gross revenue, Rs. 149 per mile of canal open, and Rs. 2.56 per acre irrigated.

Working expenses.

The operations of the year show a net profit of Rs. 733, or 1½ per cent. on the direct capital outlay of Rs. 53,803.

Average water-rate and cost of measurement.

9. The average water-rate and cost of measurement as compared with previous three years were :—

Years.	Total area irrigated.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT AND REVENUE ESTABLISHMENT.			
			Total cost.	Per Acre.		
	Acres.	Rs.	Rs.	Rs.	a.	p.
1892-93	269	4.65	62	0	3	8
1893-94	370	5.49	113	0	4	10
1894-95	405	4.88	120	0	4	9
1895-96	377	4.39	133	0	5	8

Excluding the charge for revenue establishment the cost of the measurement alone was Rs. 13, or Re. 0-0-7 per acre, against Rs. 36, or Re. 0-1-7 per acre, for 1894-95.

Duty of water.

10. The average duty of water obtained was for the kharif season 102 acres and that for the rabi 6 acres per cubic foot per second.

Plantations.

11. The number of all classes of trees on the canal at the beginning of the year was 2,652, and at its close 2,583.

The principal varieties are bábul 2,408 and mango 94. The net revenue from plantation was Rs. 44.

(29).—MAINI TANK.

Capital Account.

The Capital Account of this work was closed on 31st March 1892.

Rainfall.

2. The rainfall, as gauged at Maini at the head of the irrigated area, is shown in the following table :—

Years.	Kharif.		Rabi.		Total.	
	Ins.	cts.	Ins.	cts.	Ins.	cts.
1895-96	19	90	9	66	29	56
1894-95	12	31	2	12	14	43
Average 1891 to 1894.	16	25	6	12	19	87

3. The area irrigated, the assessment, working expenses and average water-rate were as follows :—

Years,	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1895-96	705	3,496	493	1,229	1,198	4,725	3-94	3,320
Average 1891-92 to 1894-95	744	3,978	612	2,152	1,356	6,130	4-52	7,705
Increase ... ..	...	...	...	...	...	...	...	...
Decrease	39	482	119	923	158	1,405	0-58	4,385

4. The kharif area irrigated during the year was less by 39 acres and the rabi area less by 119 acres than the average irrigated during the previous four years. The assessment during the year was less than that of the average of the past four years by Rs. 1,405. The reason for this decrease is the timely rainfall in the rabi season and the accumulation of silt in the tank which is now 14 feet above the outlet sill.

5. The principal crops irrigated during the year were as follows compared with average of the previous four years :—

Principal crops.

Name of Crop.	Area irrigated, 1895-96.	Average of the Area of previous 4 years.
	Acres.	Acres.
Sugarcane	53	66
Wheat... ..	82	153
Ground-nut	499	532
Jowári... ..	131	91

6. The area irrigated was 26 per cent. of the irrigable area under command of the canal and 10 per cent. in excess of that applied for.

7. The revenue from other sources amounted to Rs. 86 and the gross revenue to Rs. 4,811.

8. The working expenses, including direct and indirect charges, amounted to Rs. 3,320, *i. e.* Rs. 197 per mile of canal open, Working expenses. Rs. 2.77 per acre irrigated, and about 69 per cent. of the gross revenue.

The operations of the year show a net profit of Rs. 1,491.

9. The average water-rate and cost of measurement, as compared with previous three years, were as under :—

Years.	Total Area irrigated.	Average incidence of Water-rate per Acre.	COST OF MEASUREMENT AND REVENUE ESTABLISHMENT.	
			Total Cost.	Per Acre.
	Acre.	Rs.	Rs.	Rs. a p.
1892-93	1,101	4.46	419	0 6 1
1893-94	1,359	4.81	532	0 6 3
1894-95	1,280	3.98	440	0 5 6
1895-96	1,198	3.94	330	0 4 5

Excluding the charge for revenue establishment the cost of crop measurement alone was Rs. 140, or Rs. 0-1-10 per acre, against Rs. 224, or Re. 0-2-9 per acre, for 1894-95.

10. The average duty of water obtained for the kharif season was 171 acres and for the rabi season 73 acres per cubic foot per second.

Duty of water.

Tank supply.

11. The following table shows the principal levels of the Maini Tank :—

Particulars.	Height above M. S. L.	REMARKS.
Water level on 31st March 1895... ..	2,291.02	
" 1st June 1895	2,268.82	Lowest pre-monsoon level.
" 23rd September 1895	2,300.87	Highest monsoon level.
" 31st October 1895	2,300.87	Level at end of monsoon.
" 31st March 1896... ..	2,294.65	

The outlet sluice sill is at 2,269.32 above M. S. L. and F. S. L. at 2300.52 above M. S. L.

There was only one waste weir flood nearly 2 feet deep during the year.

12. The number of trees of all classes on the canal at the beginning of the year was 8,200 and at its close 8,219. The net revenue from plantation was Rs. 53.

Plantation.

(30).—MUCHKUNDI TANK.

1. The rainfall of the year compares with that of the previous year and with the average of the 10 previous years as under :—

	Kharif.	Rabi.	Total.
Average of 10 years ...	12.57	7.09	19.66
1894-95	13.22	4.65	17.87
1895-96	7.53	5.02	12.55

Area irrigated and assessments.

2. The areas irrigated and assessed revenue of the past three years are shown below :—

Years.	AREAS IRRIGATED.			ASSESSMENTS.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
1893-94	10	2	12	54	6	60
1894-95	16	3	19	82	7	89
1895-96	15	5	20	68	14	82

The area applied for during 1895-96 was 30 acres (kharif 25 and rabi 5), or 10 acres more than that actually irrigated. The less irrigation was due to some of the applicants having not cultivated some perennial crops for want of funds and also to some applicants having applied for water for areas in excess of their requirements.

Miscellaneous revenue. 3. In addition to water-rates, a sum of Rs. 452 was realized under miscellaneous revenue as detailed below :—

(1) By sale of tarvad plants and grass within the limits of the tank	Rs.	351
(2) Sale of water to the Manager, Ginning Factory at Bágalkot... ..		24
(3) Sale of dead trees in the bed of the tank		77
		<u>452</u>

4. The working expenses amounted to Rs. 292 against Rs. 566 as shown in the previous year's report. The charge of Rs. 292 is made up as under :—

(1) Amount spent on account of survey for increasing the catchment area of the tank	Rs.	17
(2) Maintenance and repairs of the tank		209
(3) Establishment charges—		
Direction at 5 per cent. on Rs. 209		10
Executive at 18 per cent. on Rs. 209		37
(4) Revenue Establishment—Pay of kárkún for measuring crops.		5
(5) Tools and Plant (Rs. 3) and Leave and Pension allowance (Rs. 7) and Share of collection charges (Rs. 4) as debited in the Examiner's Office		14
		<u>292</u>

5. The supply in the tank during the year under report, though less than that of the previous year, was sufficient for the small area under irrigation. On the 15th October 1895 the tank held 7.94 feet of water against 13.82 feet on the same date of the previous year. The run-off during the year amounted to 0.076 against 0.165 of the previous year.

6. The total number of trees and plants on the main and branch canals was 753, consisting of bábul 722, nimb 28 and tamarind 3, as detailed below :—

	Bábul.	Nimb.	Tamarind.
Main Canal	509	25	...
Broach Canal	213	3	3
Total	<u>722</u>	<u>28</u>	<u>3</u>

The bábul are mostly fair sized trees ; the others are only small plants.

58 (31).—NILGUND TANK; (32).—GADIKERI TANK; (33).—DA'MBAL TANK.

7. The area irrigated being small, no separate measurers were entertained. The crops were measured by the gauge kárkún, part of whose pay, proportional to the time spent by him on the work, *i. e.* Rs. 5, has been debited to measuring.

(31).—NILGUND TANK.

An expenditure of Rs. 21 only was incurred on this work for removing the shutters of the sluice and conveying them to Bijápur. There is no irrigation under this tank, as in accordance with Government Resolution No. 98 W.-I.—1141 of 17th July 1894, the sluice is left full open in order that the water may not rise above sluice level.

(32).—GADIKERI TANK.

The management of this tank is in the hands of the Revenue Department.

Rainfall. 2. The rainfall of the year was 28·36 inches against 28·53 of the previous year.

Area irrigated and revenue. 3. The area irrigated was 337 acres and the irrigation share of the consolidated revenue amounted to Rs. 1,987.

Working expenses. 4. The working expenses, direct and indirect, amounted to Rs. 199 against Rs. 236 of the previous year.

(33).—DA'MBAL TANK.

The rainfall gauge at the tank site amounted to 14·58 inches (10·68 inches during the kharif and 3·90 during the rabi season), against 12·98 inches of the previous year and 19·61 inches, the average annual rainfall for 16 years.

2. The tank was dry at the beginning of the year. Small replenishments in April brought some water in the tank, but it again ran dry at the end of that month and remained so till 3rd of July 1895. The tank received a fair supply of water by replenishments in October and November, but it ran dry several times in the interval. On the 6th November 1895 the water level was at R. L. 143·98 and it gradually fell to R. L. 136·56, *i. e.* 11·56 feet above the outlet sluices and 2·56 feet above the present bed of the tank on the 31st March 1896.

The supply was insufficient to meet the requirements of irrigation, and for this reason remissions for kharif crops were in some cases granted.

3. The following table shows the new area irrigated, assessment, working expenses and average water-rate as compared with the two previous years:—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1893-94	110	629	17	50	•127	679	5·35	560
1894-95	98	624	74	261	172	885	5·15	918
1895-96	10	99	39	80	49	179	3·65	1,098

4. The reason for the decrease in the area irrigated and in the assessment is the scarcity of water in the tank as explained above.

Area irrigated.

5. In addition to the above, 144 acres were irrigated under consolidated rates bearing assessment (irrigation revenue) of Rs. 981; thus the total revenue from both sources was Rs. 1,160, giving an incidence of Rs. 3.65 and Rs. 6.81 per acre for new and old irrigation respectively.

6. A sum of Rs. 401-3-0 was also received as miscellaneous revenue, Rs. 79-4-0 being on account of bábul trees, &c., sold by this Department and Rs. 321-15-0 on account of sale-proceeds of grazing by the Revenue Department.

7. The revenue from all sources amounted to Rs. 1,561, and the net profit, after deducting the direct and indirect expenses and a remission of Rs. 29, was Rs. 434, or equal to 0.71 per cent, on the direct capital outlay of Rs. 60,847.

8. The average duty of water per cubic foot per second was during the kharif season 171 acres and during the rabi season 72 acres.

(34).—MEDLERI TANK.

The rainfall of the year amounted to 18.70 inches, of which 14.35 inches fell during the kharif season and 4.35 during the rabi season. The rainfall of the previous year was 9.29 and the average rainfall for 18 years is 21.23 inches.

2. The water was below the sill of the outlet at the beginning of the year, and it was then used by lift for irrigation purposes. The tank received replenishments in May, June, September and October. The water level stood at R. L. 180, *i. e.* up to the waste weir crest, on the 8th of October. After that date it gradually fell to R. L. 170.10, *i. e.* 5.10 feet above the outlet sluices, on the 31st of March 1896. The tank maintained a sufficient supply of water for irrigation purposes.

3. The area irrigated, the assessment, working expenses and average water-rate, as compared with the two previous years, were:—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1893-94	75	283	21	127	96	410	4.27	527
1894-95	100	361	37	116	137	477	3.48	835
1895-96	124	454	21	68	145	522	3.6	920

The comparison shows a steady though small increase in the area under irrigation and in the assessment, though at the same time the working expenses have increased and the net result is not so good as it was. The new rates come into force this year and it is hoped that the result will show an improvement in revenue realised.

4. The average duty of water per cubic foot per second during the kharif season was 159 acres and during the rabi 43 acres.

(35).—MADAG TANK.

The rainfall of the year (kharif 13.73 inches and rabi 7.77 inches) was 21.50 inches against 19.74 inches in the previous year. The average annual rainfall for 26 years is 29.12 inches.

Area irrigated and Assessment.

2. The area irrigated, water assessment, working expenses and average water-rate, as compared with the two previous years, were :—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1893-94	318	796	374	1,096	692	1,892	2.73	920
1894-95	589	1,274	335	965	924	2,239	2.42	1,687
1895-96	576	1,277	357	996	933	2,273	2.44	1,650

3. The difference in area irrigated and in assessment, as compared with the figures of the last year, is trifling.

4. Rs. 100-4-0 from sale of grass, trees, &c., were realized during the year, making a gross revenue from all sources of Rs. 2,373.

Plantations.

5. The total number of trees above 8½" in girth on the canals is 2,916, consisting chiefly of mango, bábul, nimb, sandal and tamarind,

6. The net profit from this work during the year, after deducting the amount of working expenses, Rs. 1,660, amounted to Rs. 713, equal to about 0.44 per cent. on the direct capital outlay of Rs. 1,61,248.

Net profit.

7. The average duty of water per cubic foot per second was during the kharif season 166 acres and during the rabi season 112 acres.

Duty of water.

(36).—ASUNDI TANK.

The rainfall of the year was during the kharif season 13.22 inches and during the rabi season 3.65 inches, total 16.87 inches, against 13.49 inches of the previous year. The average annual rainfall for 28 years is 23.12 inches.

Rainfall.

2. The tank was empty up to 13th April 1895, after which several small replenishments were received till October. The water was at R. L. 104.46, i. e. 7.46 feet above the outlet sill, on the 1st of November 1895; it then gradually fell and stood at R. L. 99.02, i. e. 2.02 feet above the outlet sill, on the 31st March 1896. A fair supply of water was maintained throughout the whole year under this tank.

Tank supply.

Area irrigated and assessment.

3. The area irrigated, assessment, working expenses and average water-rate, as compared with the two previous years, were :—

Years.	Kharif.		Rabi.		Total.		Average Water-rate.	Working Expenses.
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.		
1893-94	60	175	25	116	85	291	3.42	731
1894-95	112	476	99	303	211	779	3.69	909
1895-96	93	335	46	102	142	437	3.08	964

(37).—MA'VINKOP TANK ; (39).—GOKA'K CANAL, 1ST SECTION, AND STORAGE WORKS. 61

4. The considerable decrease in the area irrigated and in the assessment, as compared with the figures for the previous year, was due to seasonable rainfall, especially in the rabi season.

5. The area irrigated under consolidated assessment was 185 acres with an irrigation revenue of Rs. 632; thus the total revenue derived from both sources amounted to Rs. 1,069.

6. Deducting Rs. 964 on account of working expenses, direct and indirect, from the total revenue, the net profit under this tank during the year was Rs. 105, or equal to about 0·17 per cent. on the direct capital outlay of Rs. 60,741.

7. The average duty of water per cubic foot per second was during the kharif season 133 acres and during the rabi 216 acres.

(37).—MA'VINKOP TANK.

The management of this tank is in the hands of the Revenue Department.

2. During the year under report 540 acres were irrigated with a consolidated assessment of Rs. 2,321, the irrigation share of which is Rs. 1,857.

3. There was considerable increase in the area irrigated and in assessment as compared with the figures of the previous year owing to the revision settlement brought into force in 1895-96.

4. The total revenue from the tank amounted to Rs. 1,862, including Rs. 5-4-0 on account of miscellaneous receipts.

(39).—GOKA'K CANAL, 1ST SECTION, AND STORAGE WORKS.

The capital expenditure, including direct and indirect charges, during the year was Rs. 16,707 and the total up to the end of the year under report was Rs. 12,11,583 against the estimated sum of Rs. 12,33,013. The principal items of the year's outlay on works were:—

	Rs.
1st.—Land compensation	5,131
2nd.—Improving Konur ford	5,455
3rd.—Extension of canal	3,511

The Konur ford and extension of Gokak Canal, sanctioned in Government Resolutions No. 30 W.-I.—329, dated 22nd February 1894, and No. 151 W.-I.—1940, dated 21st December 1894, respectively, were completed during the year under report.

2. The rainfall gauged at the head of the canal compares with the average of the last ten years and with the fall of 1894-95 as under:—

	Average of ten years.	1894-95.	1895-96.
	Inches.	Inches.	Inches.
Kharif	12·49	8·25	18·00
Rabi	8·84	5·65	6·92
Total	21·33	13·90	24·92

It will be seen that there was an increase of 9·75 inches in the kharif season and 1·27 inches in the rabi season as compared with last year, and that there were in all 3·59 inches over the average.

3. The storage reached its lowest level during the hot weather of 1895 on the 10th April of that year, when the water level was 18·86 feet above the sill of the canal sluices. The storage began to be drawn upon on the 5th January 1896. The tank filled and began to overflow on the 4th June 1895.

The maximum flood occurred on the 9th August 1895, rising to 2·95 feet above the weir crest and representing a volume of 50,828 cubic feet per second and a run-off of 0·08 inch per hour from the catchment basin.

4. The following table compares the areas irrigated and the water-rate assessments of the year with the average of the four years since the works were completed in 1891:—

Years.	AREA IRRIGATED.			ASSESSMENT.		
	Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.
1891-92...	3,629	2,371	6,000	6,160	5,281	11,441
1892-93...	2,821	1,027	3,848	7,139	2,218	9,357
1893-94...	8,014	1,223	4,237	8,509	3,120	11,629
1894-95...	3,038	1,325	4,363	8,507	3,408	11,915
Average ...	3,126	1,486	4,612	7,579	3,507	11,086
1895-96...	3,550	914	4,464	8,690	2,334	11,024

During the kharif season water was allowed free to an area of 116 acres under command of the new extension.

There was an increase of 512 acres irrigated in the kharif season, which was partly due to the small extension of the canal and partly to the rainfall being untimely. There was a decrease of 411 acres in the rabi season, which was due to a suitable rainfall during that season.

The area irrigated during the hot weather was 53 acres against 34 acres in the previous year.

No applications for perennial crops were refused during the year excepting in 4 or 5 cases where new land within $\frac{1}{4}$ mile of village sites was sought to be put under perennial irrigation. This matter has been referred to the Sanitary Commissioner for his decision under the orders contained in Government Resolution No. 52 W.-I.—646, dated 4th May 1896.

The irrigated area (4,464 acres) amounted to 62 per cent. of the entire irrigable area (7,200 acres) under the canal so far as it has been constructed.

No remissions were granted during the year.

The irrigators under the newly extended canal were allowed water free to the value of Rs. 117—*vide* Government Resolution No. 54 A.-I.—202, dated 7th May 1884, paragraph 2.

5. The average water-rate per acre irrigated was Rs. 2·47 against Rs. 2·73 during the previous year.

6. The realizations of the year amounted to Rs. 22,797, including Rs. 10,816 paid by the Falls Mills Company. Of this sum no amount remains outstanding.

Miscellaneous revenue. 7. In addition to water-rates the following miscellaneous revenue was derived from the canal:—

			Rs.
Water supplied to the mills	...	...	10,816
Sale of canal produce	...	...	227
Total			11,043

The increased revenue derived from the Mills Company was due to the increased water-supply sanctioned to them from 1st August 1895, as per Government Resolution No. 109 W.-I.—1183, dated 26th July 1895.

Total assessed revenue. 8. The total assessed revenue of the year was:—

			Rs.
Water-rates	...	...	11,024
Water-power	...	...	10,816
Canal produce	...	...	227
Total			22,067

There was a decrease of Rs. 891 in the assessed revenue on account of water-rates as compared with that of the previous year, which is chiefly due to the fall in the rabi irrigation.

9. The working expenses, including direct and indirect charges, compare as under for the last five years, being the period during which the present works have been in operation:—

Particulars.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.
	Rs.	Rs.	Rs.	Rs.	Rs.
Works	2,626	2,654	2,439	2,416	2,466
Establishment	1,501	1,650	1,587	1,859	2,348
Tools and Plant	199	302	282	300	299
Refund of Revenue	10	14	...	24	3
Collection	837	867	1,522	827	1,140
Leave and Pension Allowances	210	231	222	260	329
Total	5,383	5,718	6,052	5,686	6,585

The outlay on works was practically the same as last year. Establishment cost Rs. 489 more in consequence of the debit of the share of the canal (Pátkaris, Head Pátkaris, &c.) and sub-divisional office establishment to revenue management. Collection charges exceeded by Rs. 313 those of last year, and the whole cost of working was Rs. 899 more than that of the previous year.

Cost of working per mile of canal and per acre irrigated. 10. The annual working expenses are compared below:—

Years.	Per mile of Canal.		Per Acre irrigated.	
		Rs.		Rs.
1891-92	...	368	...	·89
1892-93	...	391	...	1·49
1893-94	...	414	...	1·43
1894-95	...	389	...	1·30
1895-96	...	409	...	1·47

In this statement the length of both the main canal as far as constructed and also of the Waddarhatti Branch have been taken into calculation—*vide* remark on page 65, paragraph 10, of the printed Revenue Report for 1894-95.

The total length now taken is thus 16.10 miles for the year under report and for previous years.

The rate of working expenses per acre irrigated is rather higher than that of last year on account of the extra establishment charges taken into account under the orders issued in Government Resolution No. 12 A.-I.—70, dated 12th January 1895.

11. The following table compares the gross assessed revenue with the working expenses for the last five years :—

Years.	Gross assessed Revenue.	Working Expenses.	Per cent.	Surplus Revenue.
	Rs.	Rs.		Rs.
1891-92	19,317	5,383	27.9	13,934
1892-93	19,340	5,718	29.6	13,622
1893-94	21,665	6,052	35.8	15,613
1894-95	21,987	5,686	25.9	16,301
1895-96	* 22,067	6,585	29.84	15,482

After deducting the working expenses from the assessed revenue of the year there remains a surplus of Rs. 15,482, which represents a net return of nearly $1\frac{1}{4}$ per cent. on the whole capital outlay (Rs. 12,11,583) to the end of the year, (both direct and indirect).

There was no change in the water-rates and the current rates will continue till the end of 1897-98.

12. From the 1st August 1895 a constant supply of 58 cubic feet per second was sanctioned to the Falls Mills in place of the 47 cubic feet per second given to them before, as per Government Resolution quoted in paragraph 7.

13. The area irrigated was measured by a special establishment consisting of two measurers and the required number of khalásis. The cost of measurement was Rs. 610, which is equal to Re 0-2-2 per acre irrigated against Rs. 749, or Re. 0-2-9 per acre of the previous year. The decrease in the rate is due to reduction of the measurers' salaries during the last five months of the year.

14. The average discharge of the canal was for

Kharif	16.92 cubic feet per second.
Rabi	23.13 do. do.

and the duty of water was thus as follows :—

Kharif	210 acres per cubic foot per second.
Rabi	81 do. do.

15. The number of existing trees during the year was 7,228, consisting chiefly of babul 6,607. The others are pimpari 64, banian 76, shami 128, mango 48, tamarind 78, jambul 18, bori 11, guava 7, nimb 147, nandarki 2, karanji 3, nibeti 37 and ajani 2; of the total number, 3,386 trees are over 6 feet in height and 3,842 are below 6 feet and upwards of 2 feet in height.

* Includes Rs. 117 remitted.

PART II.

WORKS IN OPERATION FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

1. The following table shows the areas irrigated in the different districts in the Deccan and Gujarát and the consolidated revenue assessed during the year :—

Collectorates.	Number of works.	Area irrigated.	REVENUE.			REMARKS.
			Irrigation share.	Land share.	Total.	
1	2	3	4	5	6	7
		Acres.	Rs.	Rs.	Rs.	
Ahmedabad ...	66	10,802	21,948	29,128	51,076	
Kaira ...	2	7,286	29,658	21,652	51,310	
Surat ...	291	12,377	49,415	1,17,229	1,66,644	
Broach ...	28	905	3,027	4,739	7,766	
Khándesh ...	82	9,017	58,433	12,475	70,908	
Násik ...	{ 191	17,817	80,804	26,002	1,06,806	} *In charge of the Khándesh Irrigation District.
	{ *80	10,483	80,602	11,780	92,382	
Ahmednagar ...	2	147	353	132	485	
Poona ...	3	515	2,857	1,015	3,872	
Sátára ...	1	100	623	415	1,038	
Belgaum ...	67	9,910	33,049	8,255	41,304	
Dhárwár ...	474	61,657	1,73,008	43,250	2,16,258	
Bijápur ...	17	1,440	5,924	1,474	7,398	
Ratnágiri ...	4	1,349	3,664	2,798	6,462	
Total ...	1,308	1,43,805	5,43,365	2,80,344	8,23,709	

2. The following table shows the actual expenditure and receipts for the year 1895-96 on all the irrigation works in the Deccan and Gujarát for which only Revenue Accounts are kept :—

Collectorate.	EXPENDITURE.								ACTUAL RECEIPTS.					Returns of Revenue.	Gross Receipts less refunds.
	Direct Charges.						Indirect Charges.	Grand Total.	Direct Receipts.			Indirect Receipts.	Grand Total Direct and Indirect Receipts.		
	Extensions and Improvements.	Maintenance and Repairs.	Establishment.		Tools and Plant.	Total Direct Charges.			Share of collection Charges.	Water Rates from Irrigation.	Miscellaneous.					Total Direct Receipts.	Share of Consolidated Revenue.
			Direction.	Executive.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ahmedabad ...	...	2,514	353	2,697	90	10,212	2,196	15,374	13	...	13	21,948	21,961	...	21,961
Kaira ...	1,097	3,485	...	...	...	...	2,966	...	...	1,030	1,030	29,658	30,688	...	30,688
Surat ...	6,491	11,437	940	3,447	291	23,469	4,965	28,737	...	326	326	49,415	49,741	...	49,741
Broach ...	46	427	...	...	...	...	304	...	...	...	...	3,027	3,027	...	3,027
Násik ...	4,273	1,144	483	2,230	204	8,303	8,088	16,481	74	6	80	80,804	80,884	...	80,884
Khándesh ...	{ 17,394	3,987	3,070	22,119	732	58,716	8,177	72,736	1,160	19	1,188	80,602	81,790	...	81,790
	{ 10,532	1,802	...	...	...	...	5,843	...	...	10	16	58,433	58,449	...	58,449
Ahmednagar ...	...	...	...	...	...	...	34	35	...	...	...	552	552	...	552
Poona ...	27	50	7	52	...	136	33	489	671	...	671	2,857	3,528	...	3,528
Sátára ...	...	...	...	...	...	...	62	62	...	...	...	623	623	...	623
Belgaum ...	...	1,192	49	150	297	1,727	3,305	5,032	...	...	...	33,049	33,049	...	33,049
Dhárwár ...	12,870	24,909	1,891	35,437	3,892	78,959	17,478	96,447	523	1,512	2,035	1,73,008	1,75,043	...	1,75,043
Bijapur ...	162	123	15	55	5	380	59	972	...	6	6	5,924	5,930	...	5,930
Ratnágiri ...	...	126	6	23	2	157	30	523	...	...	...	3,664	3,664	...	3,664
Total ...	53,872	50,936	6,733	60,309	5,489	(b) 1,82,149	(c) 64,729	2,36,878	2,430	2,915	5,365	5,48,365	5,48,730	...	5,48,730

(a) Expenditure and revenue on account of the works in charge of the Khándesh Irrigation District.

(b) Excluding Rs. 25 on account of "Suspense."

(c) Represents charges in the Civil Department not adjusted in the Finance Accounts.

Comparison with previous years.

3. The total amount of revenue realized from and the expenditure incurred on this class of works during the past three years were as follows :—

	1893-94.	1894-95.	1895-96.
	Rs.	Rs.	Rs.
Revenue realized	5,46,333	5,47,425	5,48,730
Expenditure	2,80,571	2,78,906	2,36,878
Net Revenue	2,65,762	2,68,519	3,11,852
Percentage of Expenditure to Revenue	51.95	50.94	43.17

4. The expenditure from contributions and Pátphála funds on all irrigation works for which only revenue accounts are kept for the year 1895-96 is as shown in table below :—

Collectorate.	EXPENDITURE.			REMARKS.
	Contributions.	Pátphála Fund.	Total.	
1	2	3	4	5
	Rs.	Rs.	Rs.	
Ahmedabad	109	...	109	
Kaira ... ..	...	...	...
Surat	2,080	...	2,080	
Násik	1,726	2,023	3,749	
Khándesh	75	677	752	
Ahmednagar ... ..	...	...	...
Poona ... ..	...	...	...
Sátára ... ..	...	...	...
Belgaum	391	...	391	
Dhárwár	6,031	...	6,031	
Bijápur	14	...	14	
Ratnágiri ... ..	...	...	...
Total	10,426	2,700	* 13,126	* Accounted for in the Finance Accounts under "Works for which neither Capital nor Revenue Accounts are kept."

AHMEDABAD DISTRICT.

5. The work of improving and extending the Naika Channel, estimated to cost Rs. 16,274 and sanctioned in Government Resolution No. 224 W.I.—262 of 13th February 1891, was completed during the year under report at a total cost of Rs. 16,137.

6. The receipts for the year amounted to Rs. 60,283 derived from the following sources :—

	Acres.	Assessments.
I.—Irrigation above the Kalambandi villages.	1,108	4,891
II.—Irrigation from tanks fed by the river Khári	249	1,800
III.—Irrigation below the Kalambandi villages	50	239
IV.—Irrigation from Khári Sluices proper (i.e. Kalambandi villages)	7,537	53,353
Total	8,944	60,283

The figures of area and assessment were not furnished last year and as the assessment statements have not been received from the Collectors, the results for the year under report are compared below with the figures of 1893-94 :—

- I. There has been a small decrease of about 4 acres in irrigation above the Kalambandi villages.
- II. Irrigation from tanks fed by Khári river has remained stationary.
- III. Irrigation below the Kalambandi villages has increased by 30 acres and the revenue by Rs. 158 ; a large number of lifts were used owing to scantiness of water.
- IV. The area of irrigation from the Khári sluices proper decreased by 747 acres, but there has been an increase of revenue of Rs. 12,298, as no remissions were necessary, with the exception of Rs. 136-8-10 to Naika cultivators.

7. The mean rate of assessment was Rs. 4-6-8 on land irrigated by lift above the Kalambandi villages, Rs. 7-3-8 on land irrigated by the tanks fed from the Khári river, and Rs. 4-12-6 on land irrigated below Kalambandi villages. On lands under the Khári sluices proper, *i. e.* Kalambandi villages, the rates are consolidated, the shares per acre for the land and for water privileges being as under :—

	Land share.			Water share.			Total.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Government land	4	9	7	6	4	4	10	13	11
Alienated land	4	3	3	6	1	6	10	4	9
Inámi land, consolidated ... ..	.....			.....			7	14	6
Assessment jiráyat land ... ..	.....			.....			.....

8. The working expenses during the year, exclusive of charges for revenue collection, amounted to Rs. 987, the figure of the previous year being Rs. 1,133.

Old works.

9. The old works in this district were fully described in the report for 1892-93, and there is nothing to add thereto.

10. During the year under report three tanks were repaired at a total cost of Rs. 2,324, inclusive of Rs. 181 contributed by villagers.

11. The revenue derived and areas irrigated from tanks in this district are as under :—

Number of tanks ... ..	...	...	...	66
Areas irrigated ... ..	...	...	...	10,802 acres.
				Rs.
Revenue { Irrigation share ... ..	...	...	...	21,948
{ Land share ... ..	...	...	...	29,128

			Total Rs. ...	51,076

SURAT AND BROACH.

12. During the year 30 tanks were repaired at a total cost of Rs. 20,862, of which Rs. 13,592 were spent on repairs and Rs. 7,270 on improvements. Of the above a sum of Rs. 2,080 was contributed by the villagers interested. Last year 38 tanks were repaired at a cost of Rs. 15,200 for repairs and Rs. 16,160 for improvements, and Rs. 3,083 were contributed by the villagers.

13. Of the 30 tanks, 4 belong to the Broach district, the total cost of repairs and improvements carried out to them amounting to Rs. 673. Last year two tanks were treated at a cost of Rs. 1,869.

14. A sum of Rs. 24 was expended in surveying tanks for preparation of estimates for repairs and improvements as compared with Rs. 496 last year.

15. The total area irrigated and the consolidated revenue assessed on lands under irrigation tanks in the Surat and Broach districts, as reported in Canal Return No. VIII by the Collectors, are as under :—

District,				Area.	Net consolidated Assessment.	Irrigation share.	Land share.
				Acres.	Rs.	Rs.	Rs.
Surat ...	...	...	...	12,375	1,66,644	49,415	1,17,229
Broach	...	...	...	952	7,766	3,027	4,739

The figures are almost identical with those of last year. The management of irrigation tanks rests with the Revenue Department; hence no separate establishment is entertained on this account. The receipts also are realized by the Revenue authorities.

NA'SIK DISTRICT.

16. The area under permanent *bágayat* is 17,817 acres, paying Rs. 1,06,806 consolidated assessment, of which the irrigation share is Rs. 80,804, representing about 4½ rupees per acre.

17. The expenditure on maintaining the works was Rs. 5,638 on extensions and improvements, and Rs. 1,185 on repairs. These amounts include contributions by the *rayats* of Rs. 1,364 for improvements and Rs. 41 for repairs.

18. The improvements to the *Dátali bandhára* mentioned in the last report have been completed. The *bandhára* at *Gondegaon*, *táluka Dindori*, has been provided with protection works as a precaution against floods, and small improvements and repairs have been made to the channel. All the other works are of too small and unimportant a character to deserve special description.

Details of expenditure, 19. The expenditure in detail was as follows :—

No.	Names of Works,	1895-96.		REMARKS.	
		Allotment.	Outlay.		
		Rs.	a. p.	Rs.	
REPAIRS.					
NA'SIK.					
1	Surveys for <i>bandhára</i> repairs in the <i>Godávari</i> basin for 1895-96.	182	0 0	112	Completed.
DINDORI.					
2	Repairs to old <i>Wadáli Canal</i> ...	189	0 0	180	Do.
3	Repairs to <i>Rámeshwara Bandhára</i> at <i>Dindori</i> .	365	0 0	346	Do.
NIPHA'D.					
4	Repairs to <i>Bandhára</i> No. 27 at <i>Gondegaon</i> and No. 7 at <i>Niphád</i> .	131	0 0	130	Do.
5	Repairs to <i>Pálkhed Street Bandhára</i> at <i>Shirwada (Wani)</i> .	88	0 0	80	Do.
6	Repairs to <i>Dhotarkhed Bandhára</i> at <i>Shirwada (Wani)</i> .	67	0 0	62	Do.

No.	Names of Works.	1895-96.		REMARKS.	
		Allotment.	Outlay.		
	REPAIRS—continued.	Rs.	a. p.	Rs.	
	CHA'NDOR.				
7	Providing teakwood boards for outlets of bandhára at Wahegaon.	24	0 0	24	Completed.
	SINNAR.				
8	Repairs to bandhára at Musalgaon near Habiwádi.	251	0 0	251	Do.
	Total Repairs ...	1,297	0 0	1,185	
	EXTENSIONS AND IMPROVEMENTS.				
	NA'SIK.				
1	Surveys for bandhára extensions and improvements in the Godávári basin for 1895-96.	102	0 0	37	Completed.
2	Constructing a permanent bandhára near Padali village on the Malunja river ...	200	0 0	200	Do.
	DINDORI.				
3	Improvements to bandhára No. 26 near village at Khedgaon.	.....		69	Do. Unfinished work of previous year.
4	Constructing two new slab drains on Rámeshwar Bandhára Channel at Dindori.	452	0 0	426	Completed.
	NIPHÁD.				
5	Improvements to Bandhára No. 27 at Gondegaon and No. 7 at Niphád.	1,244	0 0	1,163	Do.
6	Improvements to Pákhed Street Bandhára at Shirwadi.	316	0 0	317	In progress.
7	Improvements to Dhotarkhed Bandhára and Channel at Shirwáda (Wani).	329	0 0	226	Do.
	SINNAR.				
8	Improvements to Datali Bandhára and Irrigation Channel.	1,281	0 0	1,207	Completed.
9	Improvements to Thángaon Bandhára ...	.....		87	Do. unfinished work of previous year.
10	Improvements to Shevda Bandhára ...	563	0 0	536	In progress.
11	Constructing 5 feet culvert and road diversion for Vadgaon-Sinnar road, Páchora Bandhára Channel.	924	0 0	918	Completed.
12	Constructing 5 feet culvert near Lonarwadi village for crossing channel from bandhára, Niphád.	306	0 0	305	Do.
13	Improvements to bandhára at Musalgaon near Habiwadi, No. 37.	114	8 0	111	Do.
14	Constructing a masonry regulator for irrigating the Mahárs' land at Datali Bandhára.	35	0 0	35	Do.
	Total Improvements ...	5,866	8 0	5,637	
	Total Repairs and Improvements ...	7,163	8 0	6,822	

20. The following statement shows the areas assessed as irrigated and the consolidated revenue assessed on second class Revenue Works during the year 1895-96 :—

No.	Táluka.	Area irrigated.	REVENUE.		
			Irrigation share.	Land share.	Total.
		Acres.	Rs.	Rs.	Rs.
<i>Násik Collectorate.</i>					
1	Násik Táluka	2,756	8,585	4,258	12,843
2	Sinnar do.	4,457	21,988	6,470	28,458
3	Dindori do.	3,054	15,622	4,607	20,229
4	Niphád do.	4,562	21,056	7,177	28,233
5	Chándor do.	2,812	13,126	3,413	16,539
6	Yeola do.	176	427	77	504
	Total ...	17,817	80,804	26,002	1,06,806

KHA'NDESH IRRIGATION DISTRICT.

21. The following table gives a summary of the area irrigated and the revenue derived from old irrigation works :—

Particulars.		Khándesh.	Násik.	Total.
Area irrigated at consolidated rates... ..	...	9,017	10,483	19,500
Area irrigated at separate water-rates ... ..	...	.....	330	330
Total area in acres ... ..	...	9,017	10,813	19,830
Consolidated revenue	Rs.	70,908	92,382	1,63,290
Irrigation share of consolidated revenue	Rs.	58,433	80,602	1,39,035
Separate water-rates	Rs.	.....	1,168	1,168
Total, revenue realized, in Rupees ... ..	...	58,433	81,770	1,40,203

The above figures are exclusive of the old irrigation under the Lower Pánjhra system. The miscellaneous revenue from these works realized in the Public Works Department amounts to Rs. 35. This sum, added to the total revenue in the above table, makes the gross irrigation revenue from those works Rs. 1,40,238.

22. A sum of Rs. 763 is outstanding from the separate water-rates from works improved by the State. Out of this amount the sum of Rs. 222 is reported to have been realized in April 1896, and measures are being taken to realize the balance.

23. Revenue is also due from a portion of the new 'Thal' that was added to the irrigation at Sampur in Bágán in 1882. The irrigators pleaded insufficiency of water-supply and asked for exemption from the assessment. But the Assistant Collector has observed that there was no insufficiency of water. The people neglected the silt-clearance, which caused a shortness in the supply and they are themselves responsible for it. The revenue due will be recovered in 1896-97.

24. The outlay on improvements and repairs of these works during the year is given in the following table in contrast with expenditure in the previous year.

Expenditure.

Particulars.	1894-95.	1895-96.
	Rs.	Rs.
Improvements	25,204	27,865
Repairs	6,305	4,889
Establishment	32,557	25,187
Tools and Plant	805	722
Total in Rupees	64,871	58,663

It will be observed that in the year under report, although the expenditure under Improvements increased, the total outlay was less than in the previous year. The establishment charges were considerably less, as the charge is now made proportionately to the expenditure. The improvements carried out are all with one exception in the interest of the present revenue and not with the object of increasing it. The exceptional case is that of the restoration of the Khánápur-Sarai Bandhára in Navápur Petha, which is expected to bring in an additional annual revenue of Rs. 150 from the next year.

25. In addition to the above outlay from Imperial funds some expenditure from the Pátphála Fund was incurred on up-keep as well as on works designed to meet the local wants of the irrigators. The amount spent was Rs. 2,700 only during the year against Rs. 4,772 in the previous year. This fund is now abolished. Arrangements are being made to profitably expend the available balances, and it is expected that a considerable sum will be spent in 1896-97.

26. Local Fund money was also obtained to supplement the Imperial grants in order to defray partly the cost of works for local convenience such as communication bridges over channels. The outlay was:—

Works	Rs.
Establishment	387
Tools and Plant	46
	6
Total	439

AHMEDNAGAR DISTRICT.

27. The only two works of this class are situated in the Akola táluca—

- 1 Sávargaon Bandhára.
- 2 Gárdáni do.

28. The following table shows the area irrigated and the consolidated revenue assessed during the year:—

Name of Bandhára.	Area irrigated.	REVENUE.		
		Irrigation share.	Land share.	Total.
		Rs.	Rs.	Rs.
Sávargaon	76	200	61	261
Gárdáni	71	153	71	224
Total	147	353	132	485

POONA DISTRICT.

29. The following are the works in this Collectorate for which only Revenue Old Works. accounts are kept:—

- | | |
|------------------|-----------------------|
| 1. Dam at Kasnr. | 4. Dam at Náráyengau. |
| 2. Dam at Vadaj. | 5. Dam at Pátas. |
| 3. Dam at Agar. | 6. Tank at Wadhána. |

The description of these works was given in the Revenue report for 1881-82.

Expenditure.

30. During the year 1895-96 Rs. 50 were expended in strengthening the banks of the existing channel at Náráyengaon Bandhára.

31. Rs. 27 were expended during the year for gauging the heights of water in Supa, Wadhána and new Pátas tanks.

BELGAUM DISTRICT.

32. The total number of second class tanks in this district irrigating over 50 acres each is 67 with an irrigation area of 9,910 acres, paying a consolidated assessment amounting to Rs. 41,304, of which the irrigation share is Rs. 33,049. Of the above, some slight repairs were made to one only, *viz.* the Kiledkeri Tank at Belgaum. The work was taken in hand and completed during the year at a cost of Rs. 102.

Rupees 255 were paid as land compensation during the year on account of repairs to the Tumbavakeri Tank (No. 18) at Margankop.

Expenditure.

33. The following table shows the progress made in repairing and improving the tanks during the year:—

Nature of Tanks.	COMMENCED IN PREVIOUS YEAR.		COMMENCED AND COMPLETED DURING THE YEAR.		COMMENCED BUT NOT COMPLETED DURING THE YEAR.		TOTAL.	
	Number of Tanks.	Cost of Work.	Number of Tanks.	Cost of Work.	Number of Tanks.	Cost of Work.	Number of Tanks.	Cost of Work.
		Rs.		Rs.		Rs.		Rs.
Irrigating over 50 acres ...	1	255	2	102	2	304	5	661
Irrigating less than 50 acres ...	...	...	1	19	1	80	2	99
Total ...	1	255	3	121	3	384	7	760

34. An expenditure amounting to Rs. 594 was incurred during the year on surveying some of the irrigation tanks of the district.

DHA'WA'R DISTRICT.

35. The number of tanks according to the printed list, irrigating over 50 acres, is 471. Since the date of the printed list, areas irrigated under the tanks in this district have in some cases been reduced and in others increased. The discrepancies will disappear when complete tank lists, which are being prepared separately for each taluka, are ready.

Expenditure.

36. The following table shows the progress made in repairing and improving these tanks during the year:—

Nature of Tanks.	COMMENCED IN PREVIOUS YEAR.		COMMENCED AND COMPLETED DURING THE YEAR.		COMMENCED BUT NOT COMPLETED DURING THE YEAR.		TOTAL.	
	Number of Tanks.	Cost of Work.	Number of Tanks.	Cost of Work.	Number of Tanks.	Cost of Work.	Number of Tanks.	Cost of Work.
		Rs.		Rs.		Rs.		Rs.
Irrigating over 50 acres ...	23	14,747	8	5,083	23	17,272	54	37,102
Irrigating less than 50 acres ...	10	1,507	9	1,285	18	3,798	37	6,590

A sum of Rs. 6,031 as rayats' contribution was utilised towards the expenditure incurred on these tanks during the year under report.

37. The area irrigated under the 474* tanks which irrigate over 50 acres each is 61,657 acres assessed at Rs. 2,16,258, of which Rs. 1,73,008 represents the irrigation share. In addition to this Rs. 1,768 were realized under the following heads:—

* According to Canal Return No. VIII.

	Rs.	a.	p.
Water-rates	523	8	7
Other canal produce—Sale of grass, &c. (Miscellaneous) .	1,244	4	0
Total ...	1,767	12	7

38. Since the receipt of Government Resolution No. 125 W.-I—1473, dated 15th September 1892, many tanks irrigating each less than 50 acres were repaired or improved, but no portion of the consolidated assessment derived from them has yet been credited to this department as irrigation share.

BIJAPUR DISTRICT.

39. There are altogether 17 small irrigation works at present in charge of the Public Works Department in the Bijapur District. The area irrigated was 1,440 acres and the irrigation revenue under the seventeen works was Rs. 5,924.

40. During the year Rs. 305 from Imperial funds and Rs. 14 from rayats' contribution were spent on extensions and improvements and repairs to four tanks.

RATNA'GIRI DISTRICT.

41. There are only four irrigation tanks in this district. Annual ordinary repairs to two of them, viz. the Pat and Warad tanks, were executed by this department during the year under report at a cost of Rs. 40 and Rs. 86 respectively.

AGRICULTURAL WORKS.

42. The following table shows the financial results of the several drainage channels constructed in the Broach Collectorate:—

Names of Channels.	Expenditure during the year.	Total Cost up to date.	Receipts from sale of Occu-pancy Rights.	Balance against Capital.	Area assessed under Settle-ment.	Land taken up for Cultivation.	Assessment of Land taken up for Cultivation.	Irrigation share.	Percentage of Revenue on Capital.	REMARKS.
	Rs.	Rs.	Rs.	Rs.	Acres.	Acres.	Rs.	Rs.	Rs.	
<i>Jambusar Taluka.</i>										
1. Kora-Madaphar Channel, including Jantrau Branch	...	16,003	2,376	13,627	2,750	1,478	5,405	...	*39.66	
2. Amanpur-Nadiad Channel ...	...	14,401	2,104	12,297	920	748	3,093	...	25.15	
3. Sindhav Channel ...	...	1,238	...	1,238	63	...	...	...	...
<i>Vagra Taluka.</i>										
4. Samadpur-Kadodra-Paniadra Channel.	...	7,072	3,800	3,272	496	477	1,006	...	*30.74	
5. Fakhajan-Ambhel Channel ...	3,147	27,064	8,242	18,822	1,251	566	1,421	...	7.55	
6. Akhod-Nadirda Channel ...	1,442	1,442	...	1,442	53	...	...	...	...	} In pro-gress.
7. Jolwa Channel ...	369	369	...	369	...	...	...	...	...
<i>Anklesar Taluka.</i>										
8. Abul-Hajat-Piludra Channel ...	...	12,296	3,486	8,810	653	495	1,980	...	22.47	
Total ..	4,958	79,885	20,008	59,877	6,249	3,764	12,905	...	21.55	

43. Of the figures in the penultimate column those marked* are the same as those for last year. The second item was 25·35 last year; the fifth was 9·12; and the last was 22·13. The average last year was 23·49, so that the high rate of profit has been practically maintained.

Occupancy rights. 44. The amount realized from sale of occupancy rights during the year 1895-96 was as follows:—

Anklesvar Táluka.

Adol-Hajat-Piludra Channel	Rs. 78
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No land has as yet been taken up on the Sindhav Drainage Channel owing to the poverty of the people and the unfavourable nature of the seasons.

45. Two new channels, *viz.* the Akhod-Nadirda and the Jolwa channels, both in Vágra Táluka, were commenced during the year and completed before the rains of 1896; arrangements are being made to commence the Ora Vichiad Channel during the next cold season.

46. The total revenue from all the drainage channels amounts to 21·55 per cent. of the total net outlay.

47. Current repairs to the dam at Borvi in the Kolába Collectorate were
 Dam at Borvi. carried out during the year at a cost of Rs. 38.

*Revenue Report of Irrigation Works in the
Bombay Presidency, excluding Sind, for
1895-96—Review of the.*

No. 16 W. I.—225 OF 1897.

Public Works Department.

Bombay Castle,
11th February 1897.

Letter from the Chief Engineer, Central Division, No. 4722, dated 5th October 1896.

Forwards the Irrigation Revenue Report, Parts I. and II. of works in the Central Division for 1895-96, with the usual statements.

Letter from the Superintending Engineer, Northern Division, No. 4977, dated 10th October 1896.

Forwards similar report for works in the Northern Division.

Letter from the Examiner of Public Works Accounts, No. B.-3—1203, dated 12th October 1896.

Submits the statements and tables required in connection with the Revenue Report of Irrigation Works in the Deccan and Gujarát for 1895-96.

Letter from the Superintending Engineer, Central Division, No. 4854, dated 12th October 1896.

Reports certain figures for insertion in statement IV.E.

Letter from the Superintending Engineer, Central Division, No. 4977, dated 19th October 1896.

Letter from the Superintending Engineer, Southern Division, No. 3647, dated 26th October 1896.

Forwards the Irrigation Revenue Report, 1895-96, Parts I. and II., with the usual statements.

Memorandum from the Superintending Engineer, Southern Division, No. 3692, dated 30th October 1896.

Advise certain corrections in statement IV.E., and reports certain figures for insertion in the same statement.

RESOLUTION.—The salient points of the year's operations are noticed in the general remarks prefacing the report.

2. The number of works in operation included in Part I. is the same as in the previous year. The capital expenditure amounted to Rs. 1,43,733, and was incurred mainly on the Níra and Mutha Canals. The large debit shown against the Mhaswad Tank during the year was on account of capitalization. The entire capital outlay at the end of the year stood at Rs. 2,62,61,246, including Rs. 2,94,655 on the three projects which are still in abeyance.

3. The total area irrigated was 74,923 acres, and compared with 84,237 acres of the previous year, it shows a falling off of 9,314 acres, due to various causes mentioned in the review of the annual statement of Irrigation and Rainfall. The general prohibition, for sanitary reasons, of perennial irrigation within a quarter of a mile of villages, is also responsible in some small measure for the decrease in area.

4. The principal crops irrigated were sugarcane (11,897 acres), wheat (8,315 acres), rice (6,056 acres), jowári (18,581 acres), bújri (6,869 acres), and ground-nuts (7,874 acres), and there was a decrease in the area under most of them.

5. The assessed revenue amounted to Rs. 6,32,211, against Rs. 5,93,737 in the previous year. The increase in assessed revenue, notwithstanding the decrease in area irrigated, is a notable result of this year's operations. The increase, which is mainly under water-rates, is almost wholly from Productive Public Works, principally the Mutha Canals, and is due chiefly to the higher rates introduced for perennial crops. There was also increased revenue from the Poona Water-supply. It is satisfactory to note that the total revenue from the Mutha Canals amounted to Rs. 2,98,470, which is the highest obtained since the work came into operation. The total revenue realized was Rs. 5,98,839. The outstandings at the end of the year amounted to Rs. 81,016, the greater portion of which has since been realized.

6. A satisfactory feature of the year's operations is the large decrease in working expenses which fell from Rs. 3,50,926 in 1894-95 to Rs. 2,94,287 in 1895-96. Looking to the distribution of charges under the principal heads, the greatest decrease is under 'Establishment.'

7. The net revenue of the year was

(1) on basis of assessment...	... Rs. 3,37,924
(2) do. of realizations	... ,, 3,04,552

as compared with Rs. 2,42,811 and Rs. 2,12,556, respectively, in the previous year.

8. Protective works show a profit of Rs. 35,878 (entirely due to the Nira Canal) against Rs. 12,500 in the previous year. Productive Public Works show a profit of Rs. 2,37,194 against Rs. 2,10,824 in 1894-95. Minor Works, Imperial, also give a profit of Rs. 15,042 against a loss of Rs. 21,862 in the preceding year. The only Provincial Irrigation Work, Gokak Canal, shows an improvement to the extent of Rs. 5,344.

9. Under Part II, Works for which only Revenue Accounts are kept, there is a slight improvement in revenue receipts and a decrease in expenditure. Looking to the details of expenditure there is a decrease under nearly all heads. The decrease under Extensions and Improvements and Maintenance and Repairs of these old works is to be regretted, and endeavour should be made to work up to the grants which Government allot. On the Agricultural works the high rate of profit has been practically maintained.

10. In reviewing the report for 1894-95 Government remarked that the record of that year showed unsatisfactory results, and it is gratifying to be able to note that the operations of the year under review produced a marked improvement. Increased assessments and decreased working expenses have contributed to the satisfactory increase recorded in the net earnings of the year. Government trust that no effort will be spared to establish a continuance of the good results exhibited in the report of the year under review; this is most likely to be secured by careful attention to economy in the working expenses.

11. Copies of the report and of this review should, as usual, be forwarded to the Government of India and the Secretary of State.

S. REBSCH,

Under Secretary to Government.

To

The Revenue Department, Secretariat.
 The Financial Department, Secretariat.
 The Commissioner N. D.
 The Commissioner C. D.
 The Commissioner S. D.
 The Survey Commissioner and Director of Land
 Records and Agriculture.
 The Superintending Engineer C. D.
 The Superintending Engineer N. D.
 The Superintending Engineer S. D.
 The Chief Engineer, Indus Right Bank Division.
 The Superintending Engineer, Indus Left Bank
 Division.
 The Examiner of Public Works Accounts.
 The Government of India.
 The Secretary of State for India. } By letter.
 The Editors' Table.

} With copies of report.

Exd. B. B. P.

No. _____ of 1897.

Copy forwarded for information and guidance to

Engineer,

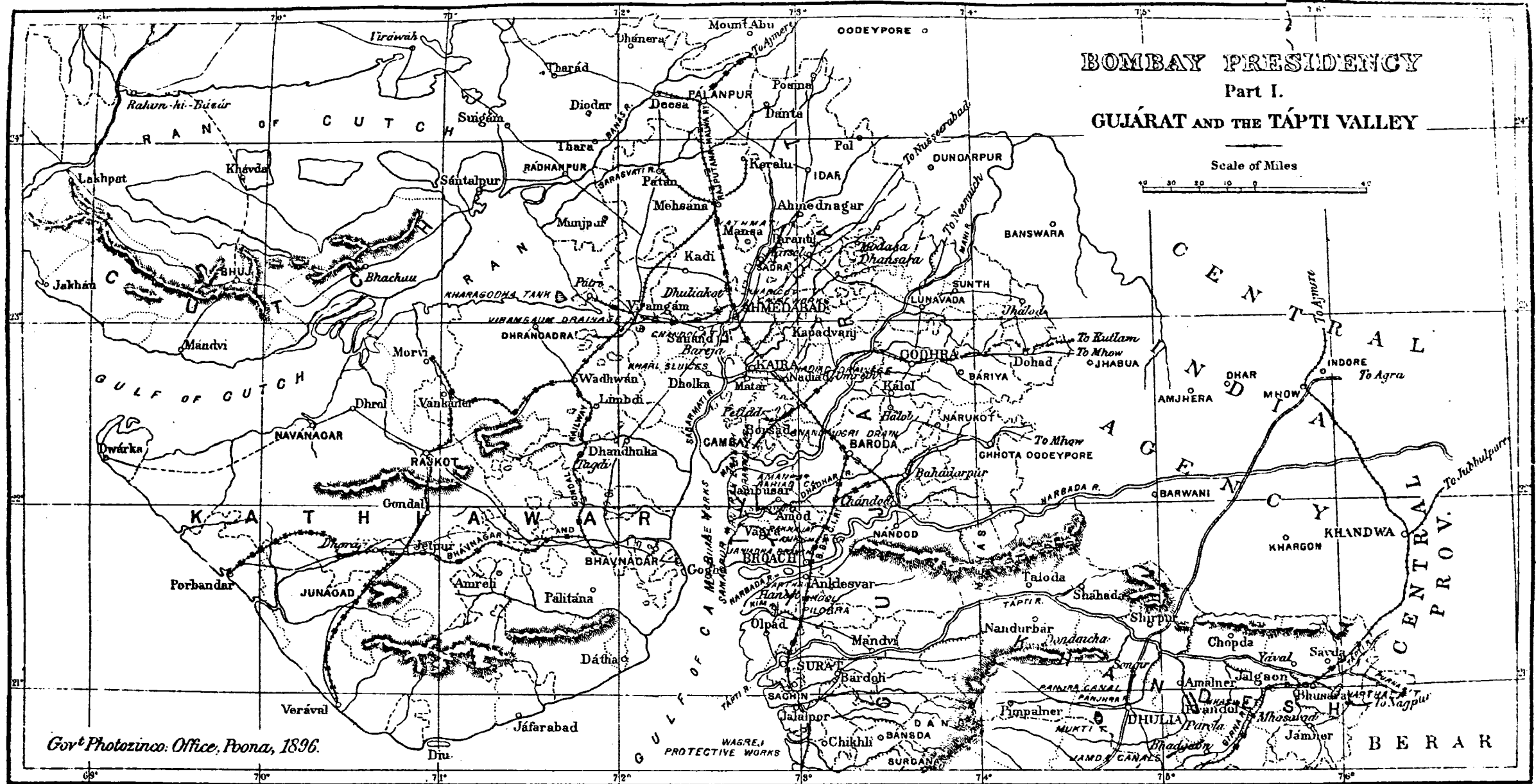
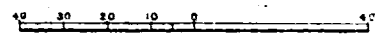
Division.

BOMBAY PRESIDENCY

Part I.

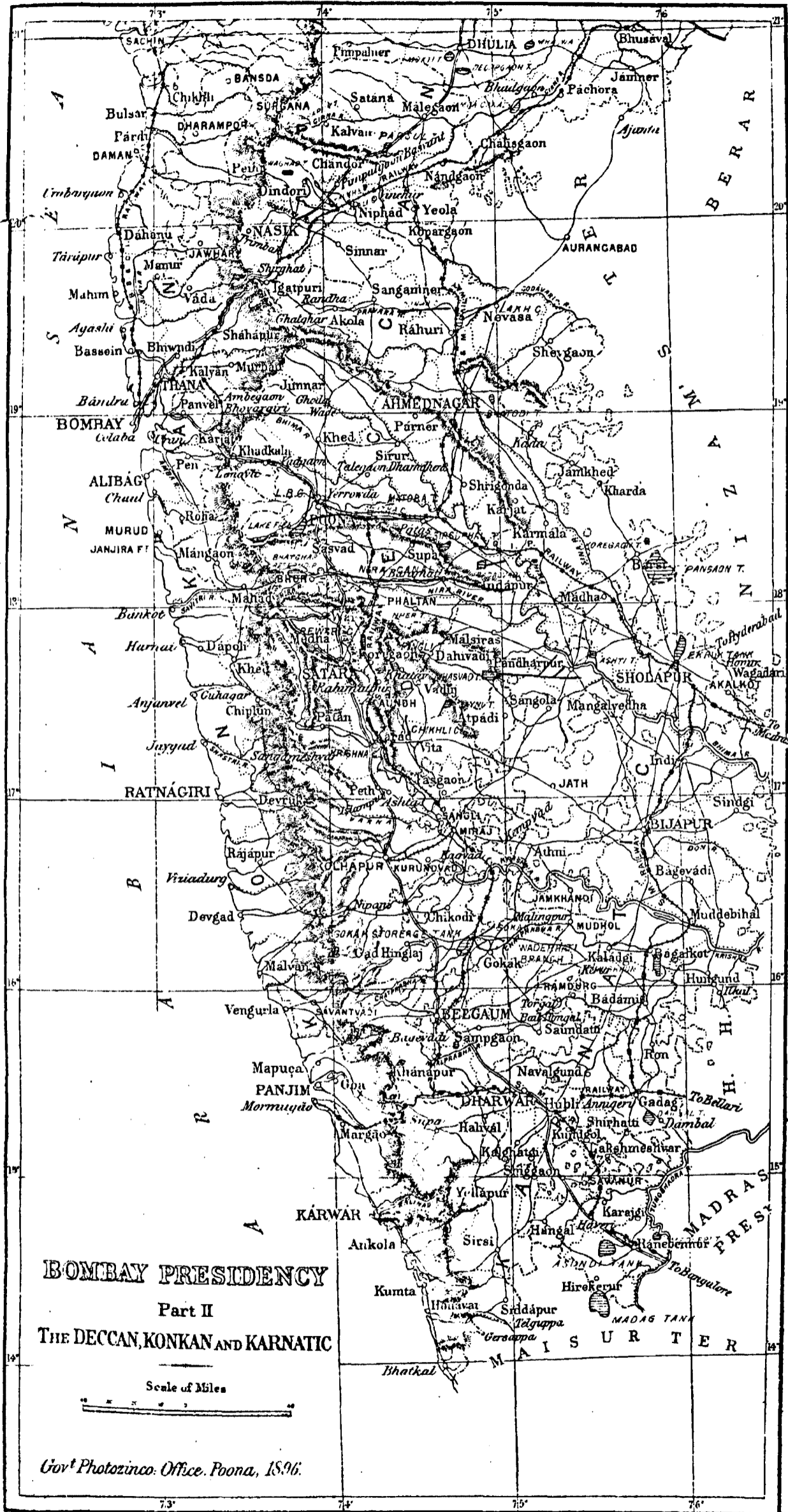
GUJARAT AND THE TÁPTI VALLEY

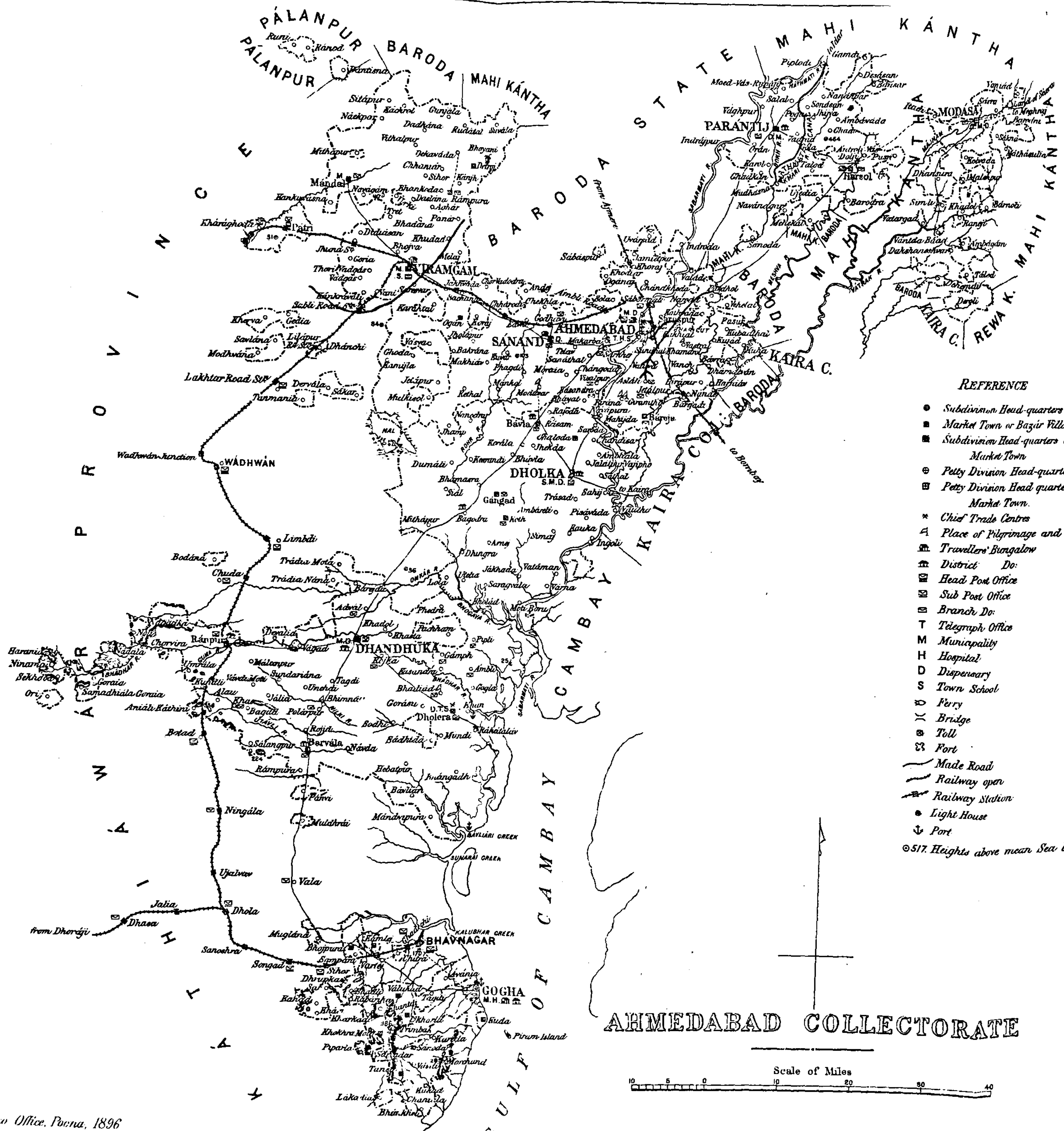
Scale of Miles



Govt Photoinc. Office, Poona, 1896.

- | | |
|------------------|--|
| JAMHOGAR TALUKA | 1. AMANPUR NARIAD CHANNEL |
| | 2. KORA MADAFAR DO. |
| * VAGRA DO. | 3. SAMADPUR KADODRA PANIADRA CHANNEL |
| † ANKLESHVAR DO. | 4. SARTHAN AHOL PILODRA DO. |
| x VAGRA DO. | 5. PAKHJAN AMBEL DO. |
| △ JAMBUSAR DO. | 6. SIMDIHAD DO. |
| ○ VIRAMGAUM DO. | 7. NURSINGH VIRAMGAUM DRAINAGE CHANNEL |



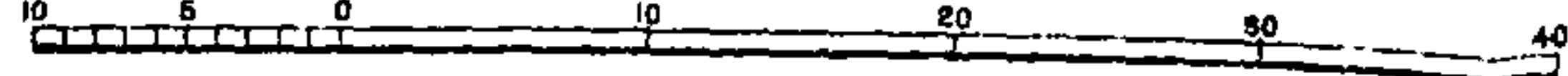


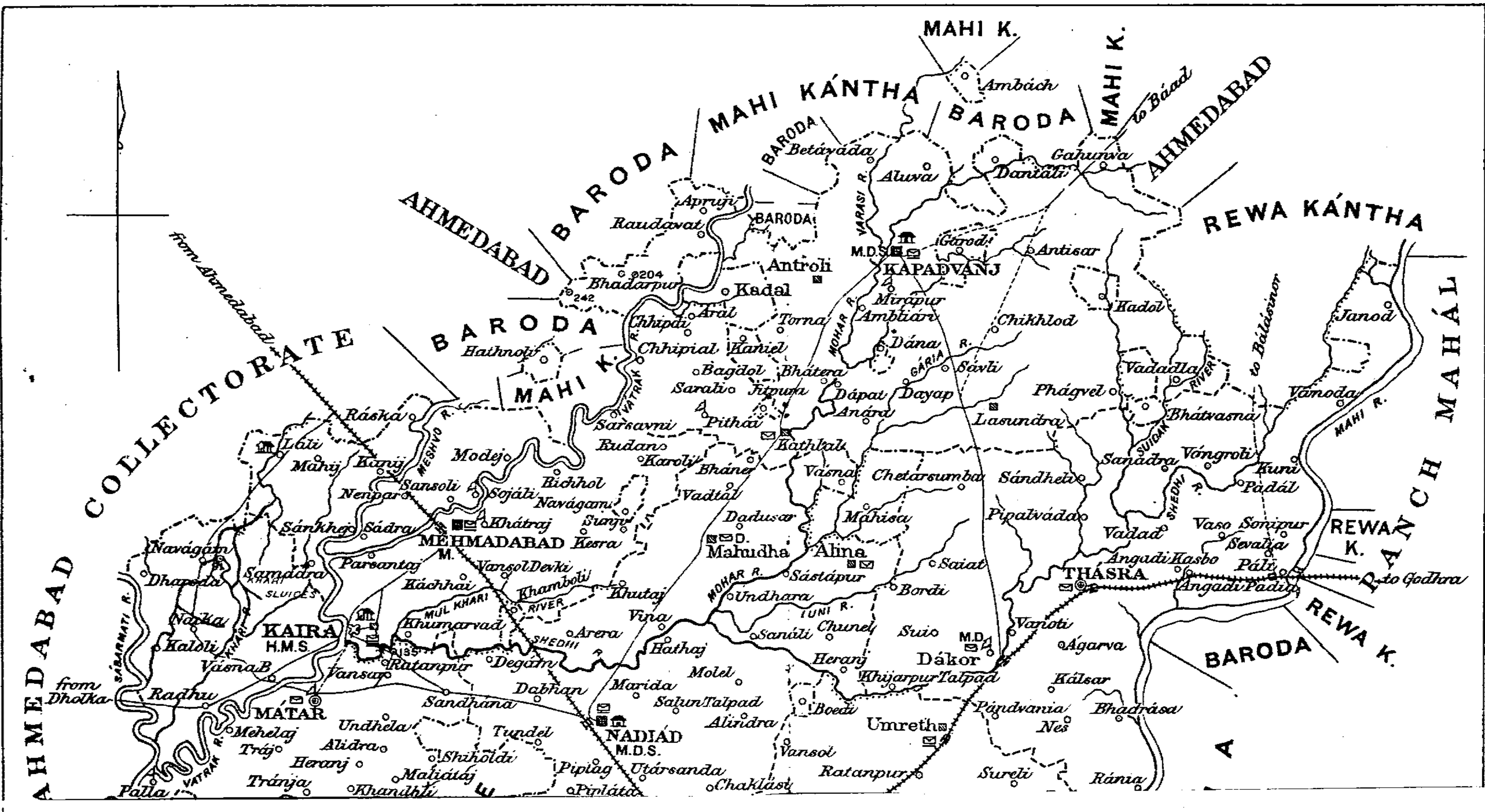
REFERENCE

- Subdivision Head-quarters
- Market Town or Bazir Village
- Subdivision Head-quarters and Market Town
- ⊙ Petty Division Head-quarters
- ⊙ Petty Division Head-quarters and Market Town
- * Chief Trade Centres
- ▲ Place of Pilgrimage and Fair
- ⊠ Travellers Bungalow
- ⊠ District Do
- ⊠ Head Post Office
- ⊠ Sub Post Office
- ⊠ Branch Do
- T Telegraph Office
- M Municipality
- H Hospital
- D Dispensary
- S Town School
- ⊖ Ferry
- Bridge
- ⊠ Toll
- ⊠ Fort
- Made Road
- Railway open
- Railway Station
- Light House
- ⊠ Port
- ⊙ 517. Heights above mean Sea level

AHMEDABAD COLLECTORATE

Scale of Miles





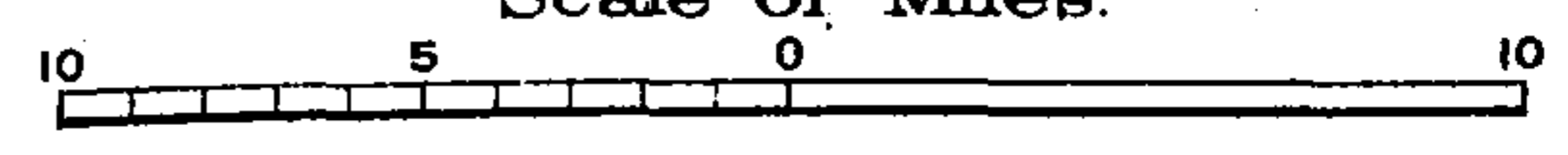


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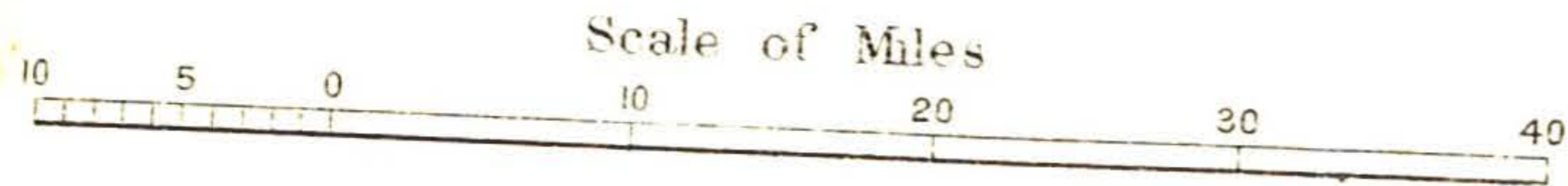
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- Subdivision Head-quarters and Market Town
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- ⊙ Petty Division Head-quarters and Market Town
- * Chief Trade Centres
- ▲ Place of Pilgrimage and Fair
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- Made Road
- Railway open
- Railway Station
- Light House
- ⌘ Port
- ⊙ 517. Heights above mean Sea level

BROACH COLLECTORATE.

Scale of Miles.



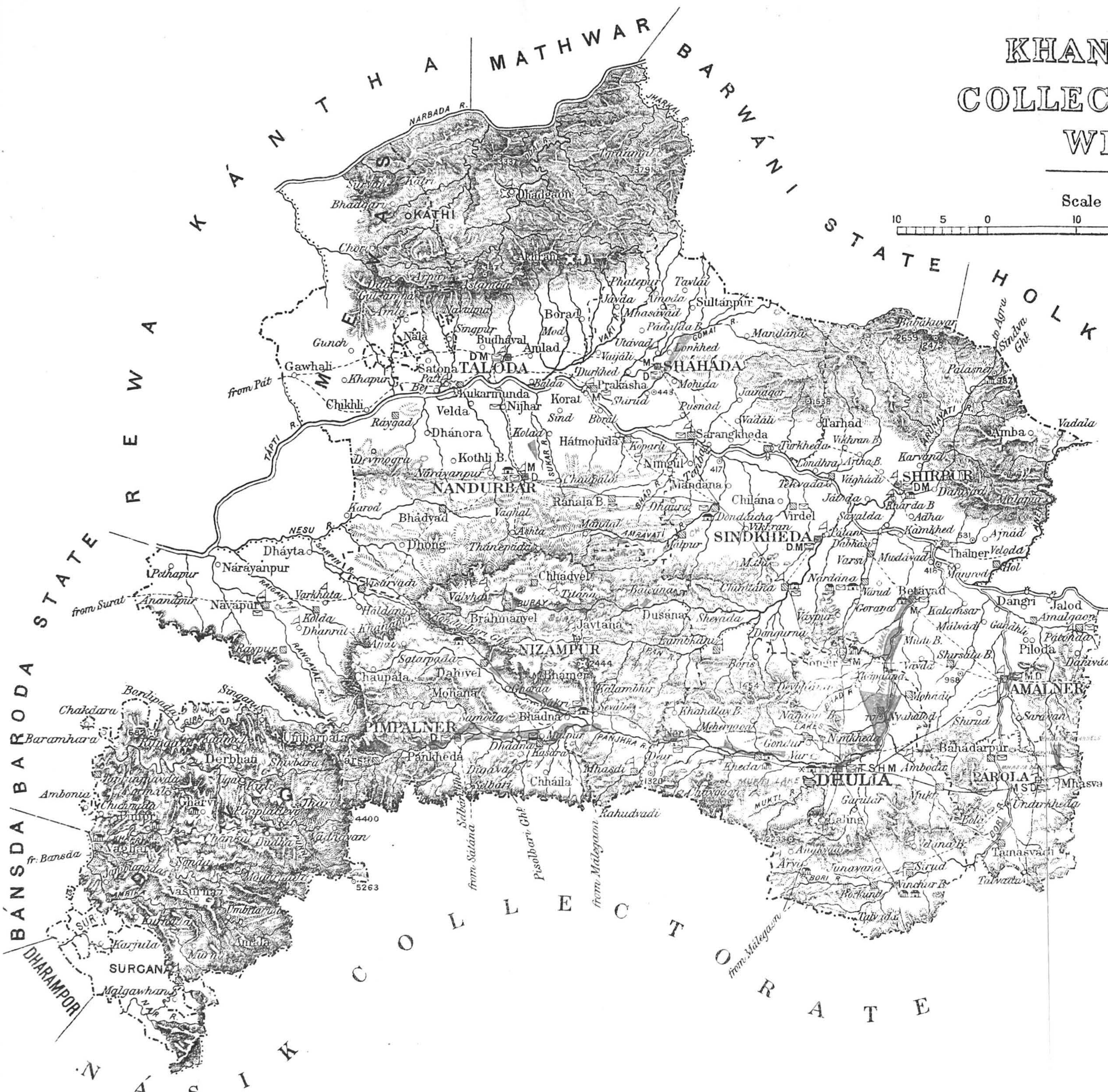
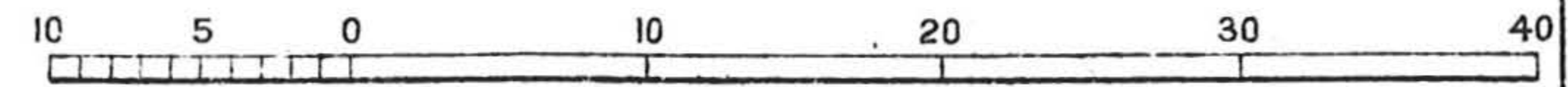
KHANDESH COLLECTORATE EAST



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 - Market Town or Bazar Village
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 - ⊞ Petty Division Head-quarters and Market Town
 - ✱ Chief Trade Centres
 - ⚓ Place of Pilgrimage and Fair
 - 🏠 Travellers' Bungalow
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 - 📧 Head Post Office
 - 📧 Sub Post Office
 - 📧 Branch Do:
 - T Telegraph Office
 - M Municipality
 - H Hospital
 - D Dispensary
 - S Town School
 - ⚓ Ferry
 - ⚓ Bridge
 - ⚓ Toll
 - 🏰 Fort
 - Made Road
 - Railway open
 - 🚂 Railway Station
- © 517 Heights above mean Sea level

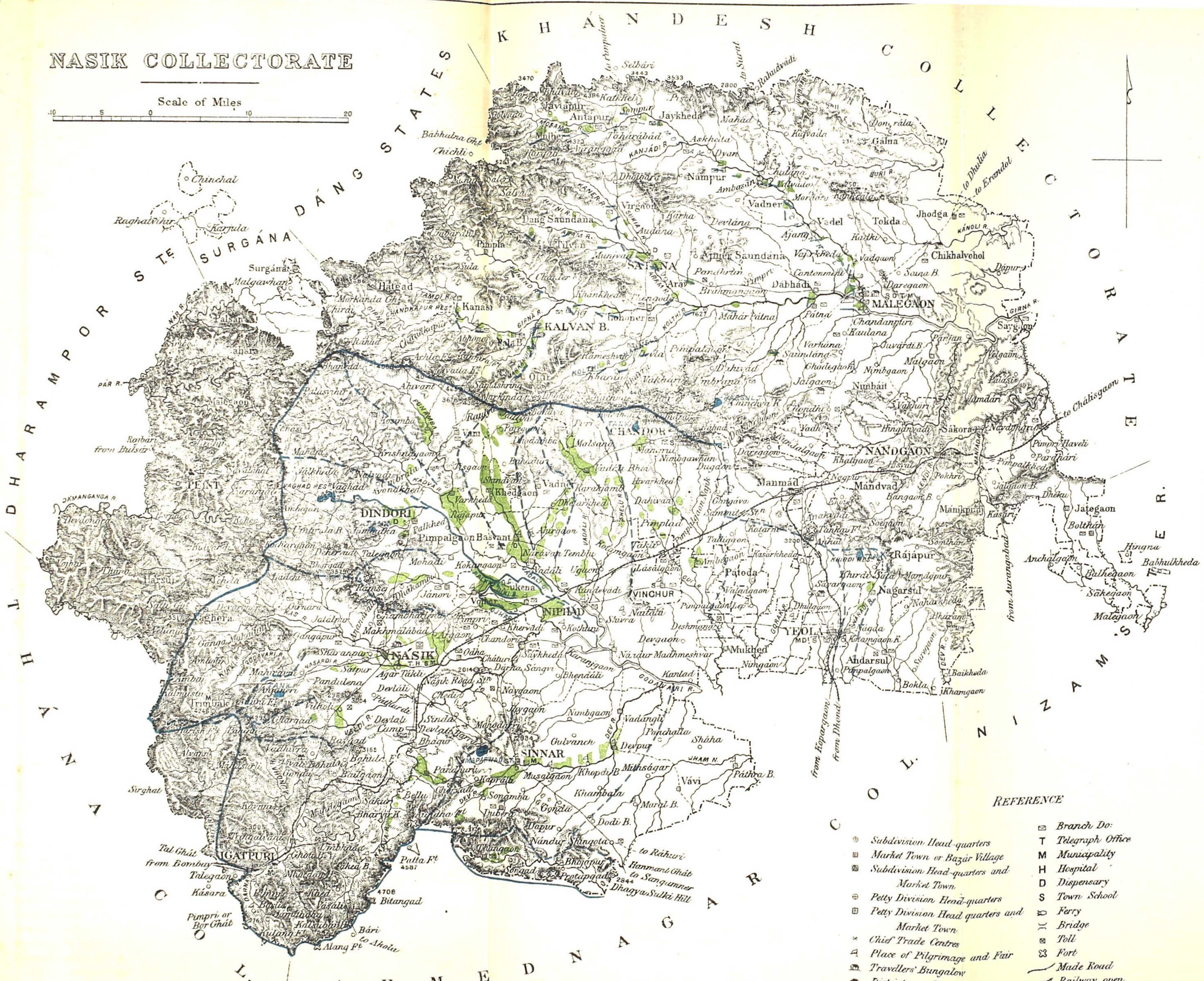
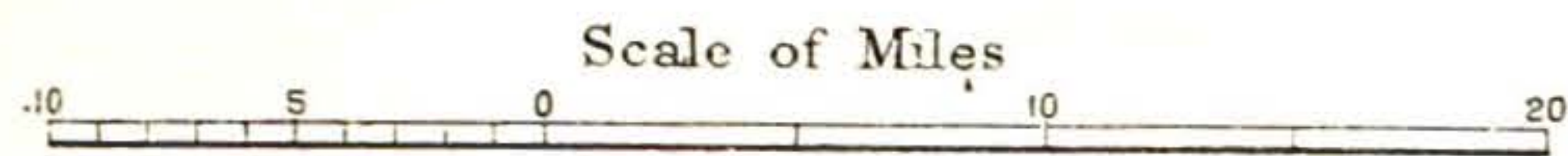
KHANDESH COLLECTORATE WEST

Scale of Miles



- REFERENCE**
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 - ⊠ Market Town or Bazar Village
 - ⊞ Subdivision Head-quarters and Market Town
 - ⊕ Petty Division Head-quarters
 - ⊞ Petty Division Head-quarters and Market Town
 - × Chief Trade Centres
 - ⌒ Place of Pilgrimage and Fair
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 - ⌒ Ferry
 - ⌒ Bridge
 - ⌒ Toll
 - ⌒ Port
 - Made Road
 - Railway open
 - Railway Station
 - ⊙ 517. Heights above mean Sea level

NASIK COLLECTORATE



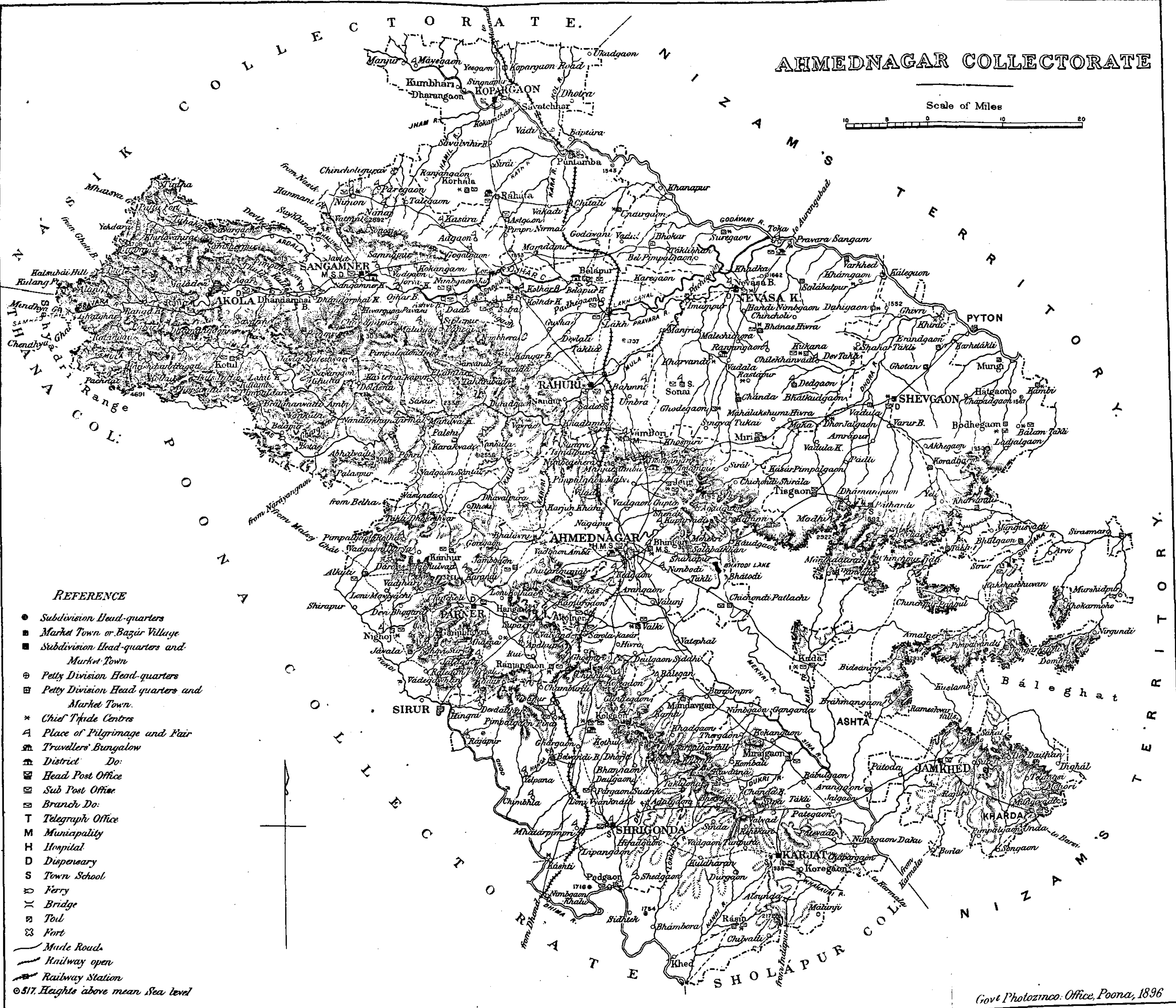
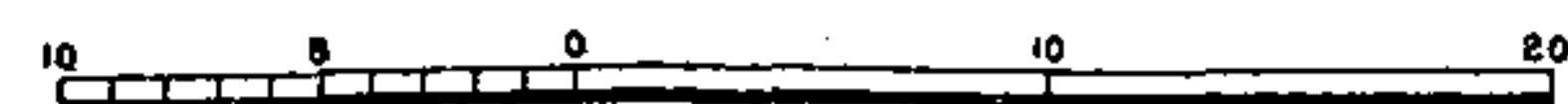
REFERENCE

⊠ Branch Do.	⊠ Telegraph Office
⊠ Subdivision Head-quarters	⊠ Municipality
⊠ Market Town or Bazar Village	⊠ Hospital
⊠ Subdivision Head-quarters and Market Town	⊠ Dispensary
⊠ Petty Division Head-quarters	⊠ Town School
⊠ Petty Division Head-quarters and Market Town	⊠ Ferry
⊠ Chief Trade Centres	⊠ Bridge
⊠ Place of Pilgrimage and Fair	⊠ Toll
⊠ Travellers' Bungalow	⊠ Fort
⊠ District Do.	— Made Road
⊠ Head Post Office	— Railway open
⊠ Sub Post Office	— Railway Station

⊠ 517. Heights above mean Sea level

AHMEDNAGAR COLLECTORATE

Scale of Miles



REFERENCE

- Subdivision Head-quarters
- Market Town or Bazár Village
- Subdivision Head-quarters and Market Town
- ⊕ Petty Division Head-quarters
- ⊕ Petty Division Head-quarters and Market Town
- * Chief Trade Centres
- A Place of Pilgrimage and Fair
- Travellers' Bungalow
- District Do:
- Head Post Office
- Sub Post Office
- Branch Do:
- T Telegraph Office
- M Municipality
- H Hospital
- D Dispensary
- S Town School
- F Ferry
- (Bridge
- ⊠ Toll
- ⊠ Fort
- Mule Road
- Railway open
- Railway Station

© 517. Heights above mean Sea level

Govt Photozinc. Office, Poona, 1896

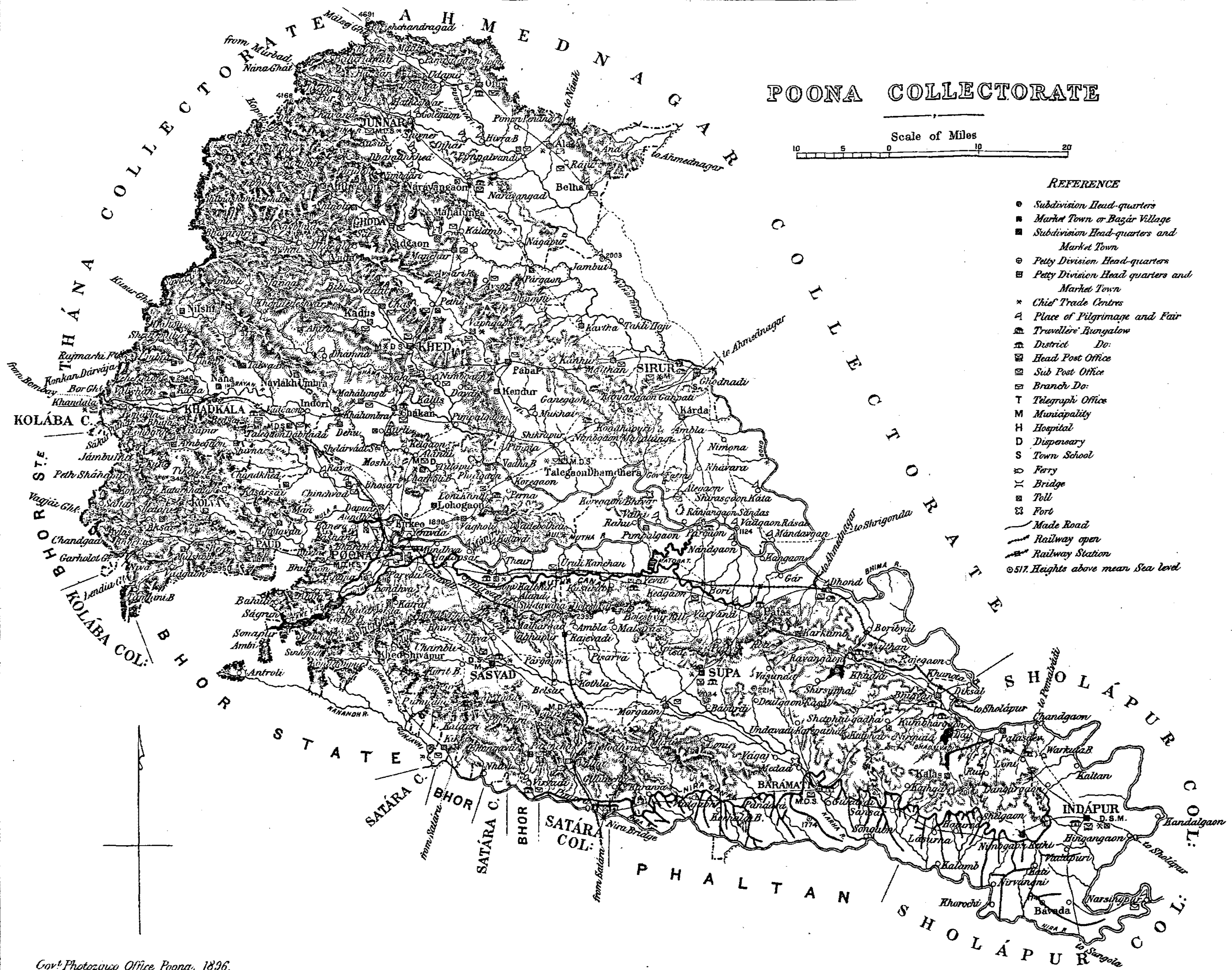
POONA COLLECTORATE

Scale of Miles

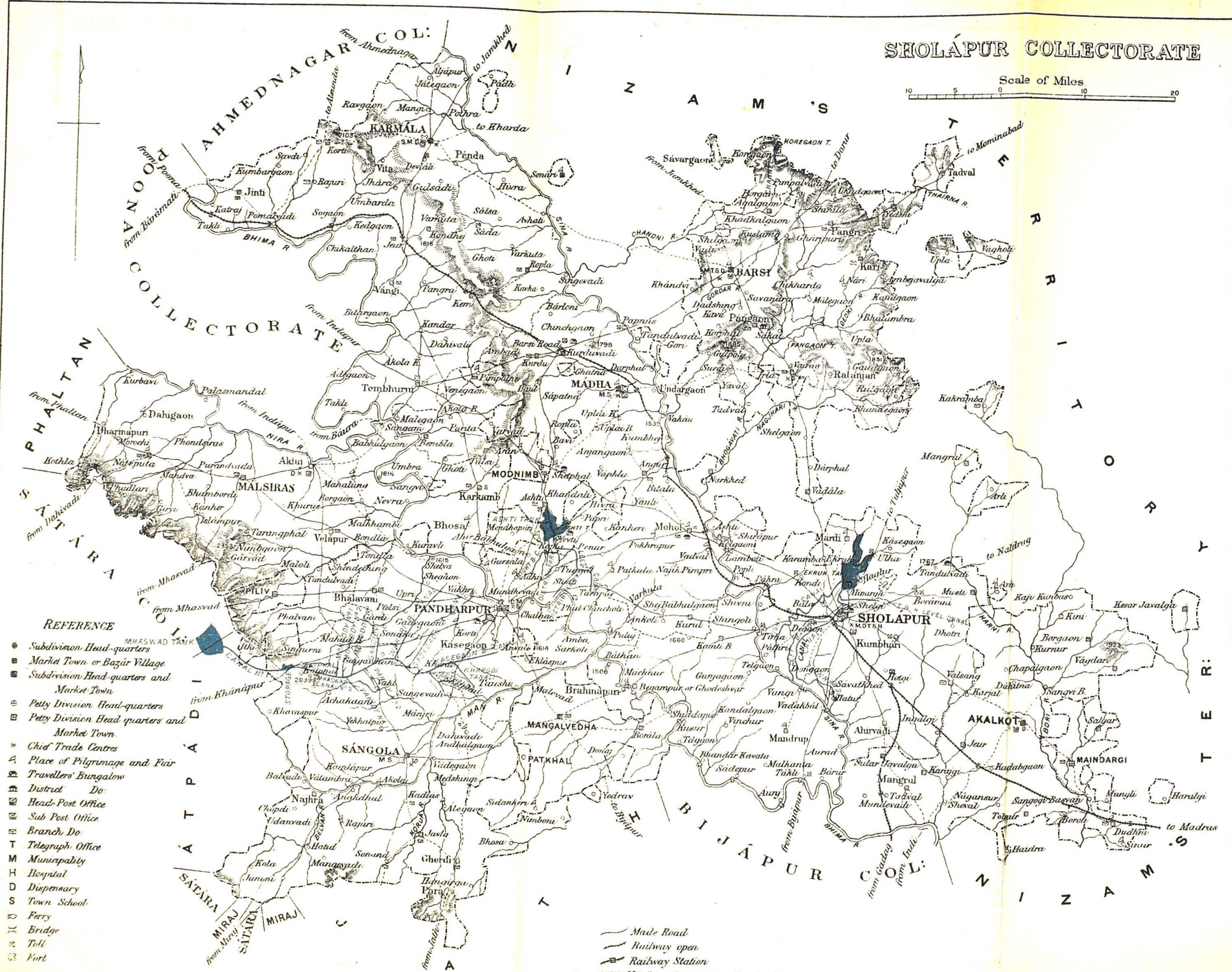
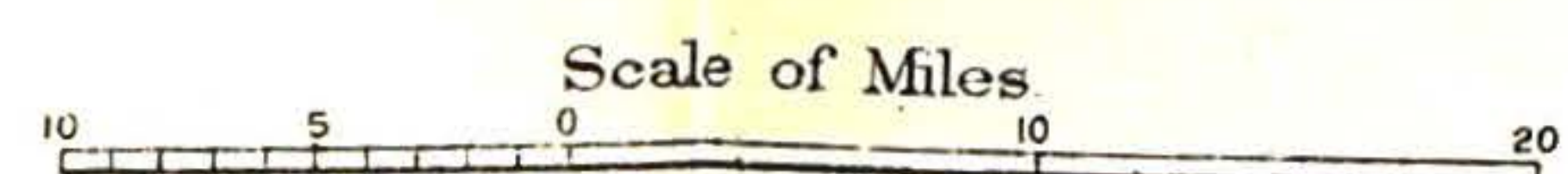


REFERENCE

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- Petty Division Head-quarters
- Petty Division Head-quarters and Market Town
- * Chief Trade Centres
- ▲ Place of Pilgrimage and Fair
- Travellers' Bungalow
- District Do.
- Head Post Office
- Sub Post Office
- Branch Do.
- T Telegraph Office
- M Municipality
- H Hospital
- D Dispensary
- S Town School
- ⊕ Ferry
- ⌒ Bridge
- Toll
- Fort
- Made Road
- Railway open
- Railway Station
- 517. Heights above mean Sea level



SHOLAPUR COLLECTORATE



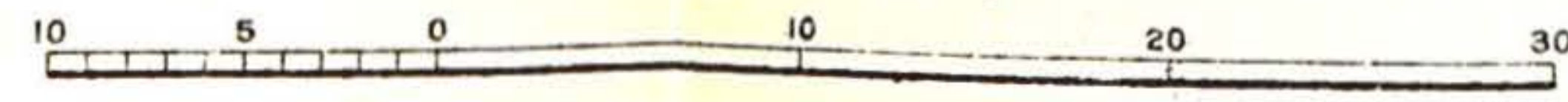
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- Subdivision Head-quarters
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- Subdivision Head-quarters and Market Town
- ⊕ Petty Division Head-quarters
- ⊕ Petty Division Head-quarters and Market Town
- * Chief Trade Centres
- ▲ Place of Pilgrimage and Fair
- ▩ Travellers Bungalow
- ⊠ District Do
- ⊠ Head-Post Office
- ⊠ Sub Post Office
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- S Town School
- ⊖ Ferry
- ⊖ Bridge
- ⊖ Toll
- ⊖ Fort

— Made Road
 — Railway open
 — Railway Station
 © 517 Heights above mean Sea level

SÁTÁRA COLLECTORATE

Scale of Miles



REFERENCE

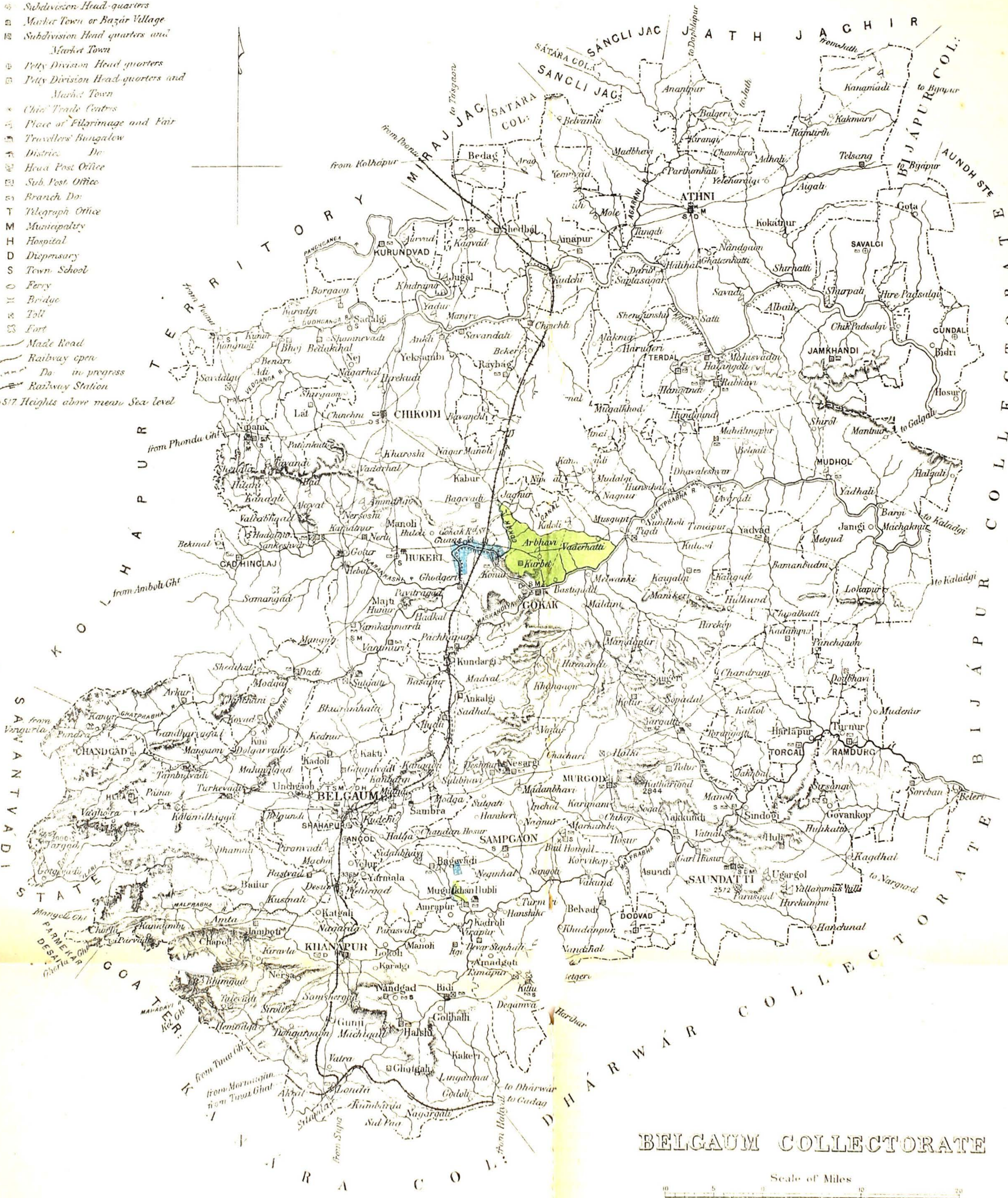
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- ⊕ Petty Division Head-quarters
- ⊞ Petty Division Head-quarters and Market Town
- ✱ Chief Trade Centres
- ⌒ Place of Pilgrimage and Fair
- ⌒ Travelers' Bungalow
- ⌒ District Do.
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- ⌒ Sub Post Office
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- S Town School
- ⊞ Ferry
- (Bridge
- ⊞ Toll
- ⊞ Fort
- Made Road
- Railway open
- ⊞ Railway Station

⊙ 517 Heights above mean Sea level



REFERENCE

- ⊙ Subdivision Head-quarters
- ⊠ Market Town or Bazar Village
- ⊡ Subdivision Head-quarters and Market Town
- ⊣ Pety Division Head-quarters
- ⊤ Pety Division Head-quarters and Market Town
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- ⊡ Branch Do
- ⊣ Telegraph Office
- ⊤ Municipality
- ⊠ Hospital
- ⊡ Dispensary
- ⊣ Town School
- ⊤ Ferry
- ⊠ Bridge
- ⊡ Toll
- ⊣ Fort
- Made Road
- Railway open
- Do in progress
- ⊠ Railway Station
- ⊙ 517 Heights above mean Sea level



BELGAUM COLLECTORATE

Scale of Miles

