
TRIENNIAL IRRIGATION REVENUE REPORT

OF THE

BOMBAY PRESIDENCY

(EXCLUDING SIND)

FOR THE

TRIENNium ENDING 1910-1911.

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TRIENNIAL IRRIGATION REVENUE REPORT, BOMBAY PRESIDENCY (EXCLUDING SIND), 1908-1909 TO 1910-1911.

General Remarks.

This is the fourth Triennial Revenue Report of Irrigation Works prepared in accordance with the orders of the Government of India conveyed in their Resolution No. 670-C. W. I., dated the 6th June 1901, contained in Government Resolution No. W. I.—1396, dated 5th July 1901.

The question whether this report should be maintained or abolished is under the separate consideration of the Government of India.

2. The report contains the statistical information of which it is important to maintain a permanent and continuous record, compares the results of successive triennial periods and shows the progress of the works.

For details regarding the administrative work and progress of the Department, reference should be had to the Annual Administration Reports which are published separately.

3. The works in the Deccan and Gujarát for which both Capital and Revenue Accounts are kept are divided into two classes—Major Irrigation Works and Minor Works and Navigation, but there are no navigable canals.

A detailed list of the works is given in the index on page 1.

During the triennium under report, the Khari Cut was amalgamated with the Hathmati Canal and the Matoba Tank with the Mutha Canal.

The Budhihal and Victoria Tanks commenced as famine relief works are now stopped; the Gokák Canal—2nd Section—is in abeyance, and the Maladevi Tank has been abandoned.

Detailed statements have been prepared only for the 41 works which are in operation and embodied in the present report.

4. The following table gives the average of the rainfall at all stations connected with works in operation at which rainfall is gauged:—

Average of 12 years 1899-1900 to 1910-11.	During			Average for			
	1908-09.	1909-10.	1910-11.	1908-09 to 1910-11.	1905-06 to 1907-08.	1902-03 to 1904-05.	1899-1900 to 1901-02.
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
1933	1957	2045	2800	2267	1943	1919	1625

The rainfall during the triennium under report is above the average of the 12 years ending 1910-11.

5. The Capital outlay and financial results of the works classed as Major Works—Protective—are shown in the following table:—

	Average for			
	1908-1909 to 1910-1911.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.
	Acres.	Acres.	Acres.	Acres.
Area irrigated	52,957	47,186	45,332	52,693
	Rs.	Rs.	Rs.	Rs.
Capital outlay to end of triennial period	1,78,87,933	1,14,30,083	91,75,054	86,81,773
Revenue	3,87,433	3,05,373	2,26,469	1,93,628
Working Expenses	1,14,704	1,03,570	82,467	69,161
Net Revenue	2,72,735	2,01,803	1,44,002	1,24,467

The large increase in the Capital outlay incurred during the triennium under report on Protective Irrigation Works is chiefly due to rapid progress in the construction of the Godaveri and Pravara River Works Projects.

The net revenue shows steady progress, but irrigation commenced during the triennium on the Godaveri Canal and on the Girna Canal under the Chankapur Tank and larger increases are expected.

6. Under the head Major Works—Protective Works—Works for which neither Capital nor Revenue Accounts are kept—an expenditure of Rs. 4,65,107 was incurred during the triennium on Surveys and Investigations of Protective Irrigation Works and on the preparation of projects of Public Works for the famine relief programmes, that incurred during the preceding triennium being Rs. 8,53,591; a separate statement showing details of the above outlay has been included in the present report. The general Survey for Protective Irrigation Works has been completed, and a most valuable record of possible projects has been compiled and affords means for the ready selection of the next Protective Irrigation Works for which detailed projects should be prepared for sanction and construction. The famine relief programme is ready.

7. The following statement gives Capital outlay and financial results in respect of the works classed as Major Works—Productive :—

	Average for			
	1908-1909 to 1910-1911.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.
	Acres.	Acres.	Acres.	Acres.
Area irrigated	47,927	36,240	28,481	23,769
	Rs.	Rs.	Rs.	Rs.
Capital outlay to end of triennial period	1,28,58,723	1,25,69,947	1,23,58,927	1,17,23,427
Revenue	6,22,418	4,95,101	4,20,562	3,76,095
Working Expenses	2,08,308	1,91,835	1,82,389	1,73,004
Net Revenue	4,14,110	3,03,206	2,38,173	2,03,091

The figures show continuous progress. The Hathmati Canal and Khari Cut were specially successful during the period and the Ekruk Tank has progressed well. The return of 3.22 per cent. obtained on the Capital outlay under this head (Major Works—Productive) excluding interest charges, is better than the percentage 2.41 shown in the last triennium.

8. The Capital expenditure on the five works—Lower Panjhra River Works, Kadwa River Works, Pravara River Works—Lakh Canal, Mutba Canals and Krishna Canal—originally classed as Productive Works and still maintained on the list of works of that class, has from 1885-86 been met from funds provided under “Minor Works and Navigation” as they were found not to fulfil the conditions prescribed in the case of Productive Works.

The Hathmati Canal was amalgamated with the Khari Cut Project in 1909-10, and though the combined work stands on the list of Productive Public Works, the Capital expenditure thereon is being met from the grant under “Minor Works and Navigation” under orders of the Government of India.

9. The Capital outlay and financial results in respect of "Minor Works and Navigation—Works for which Capital and Revenue Accounts are kept" are as follows :—

	Average for			
	1908-1909 to 1910-1911.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.
	Acres.	Acres.	Acres.	Acres.
Area irrigated	38,180	92,935	33,751	37,998
	Rs.	Rs.	Rs.	Rs.
Capital outlay to end of triennial period	92,23,728	88,54,892	84,21,274	74,39,144
Revenue	1,81,390	1,35,438	1,11,168	95,743
Working Expenses	91,653	72,889	69,839	1,48,951
Net Revenue	89,737	62,549	41,329	—53,208

The figures show a satisfactory increase in the revenue.

10. Besides the Capital Account works referred to in paragraph 3 under Minor Works and Navigation, there are two classes, namely, (1) Works for which only Revenue Accounts are kept and (2) Works for which neither Capital nor Revenue Accounts are kept.

The particulars of "Works for which only Revenue Accounts are kept" are as follows :—

	Average for			
	1908-1909 to 1910-1911.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.
	Acres.	Acres.	Acres.	Acres.
Area irrigated	153,993	145,946	143,350	131,372
	Rs.	Rs.	Rs.	Rs.
Revenue	5,20,492	4,49,366	5,08,238	5,53,072
Working Expenses	4,59,022	4,24,008	4,56,804	2,32,089
Net Revenue	61,470	25,358	51,434	3,20,983

The works included in the above class are small tanks and bandharas and are old works which are maintained and repaired. The area of irrigation and the revenue depend largely on the character of the rainfall and the triennium was better than the preceding one. The large figures for working expenses indicate the systematic manner in which these old works are being maintained and repaired.

11. Particulars in respect of "Works for which neither Capital nor Revenue Accounts are kept" are as follows :—

	Average for			
	1908-1909 to 1910-1911.	1905-1906 to 1907-1908.	1902-1903 to 1904-1905.	1899-1900 to 1901-1902.
	Rs.	Rs.	Rs.	Rs.
Revenue	7,545	2,871	1,499	1,785
Expenditure	1,19,659	1,00,023	1,62,883	1,19,049

The expenditure under this head is on account of construction of certain tank works, offices and residences for the Executive Engineers, Gujarát and Dhárwár Irrigation, drainage channels, field-embankments, store-houses, surveys and river and rain gauges. The measurement of the supplies of water available is very important for the design of future works.

12. In addition to the tables of statistics, statements have been given for the works numbered in the margin of data important in the management of the works. They may also be of general interest. The statement for Lake Whiting shows that the date when the storage was first drawn upon varied from the 20th September in 1896 to the 26th November in 1910 and the statement for the Gokák Canal shows the dates vary from 24th November to the 10th of February.
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|---|--|
| 2. Chankapur Tank. | |
| 3. Godaverí Canal. | |
| 4. Nira Canal. | |
| 8. Lower Panjhra River Works. | |
| 9. Kadva River Works. | |
| 11. Mutha Canal. | |
| 37. Gokák Canal—1st Section
and Storage Works. | |