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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	<i>4801 Revenue</i>	Press.
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

9th August 1877, No. 227 I.

Irrigation.

Read the following paper:—

No. 33. From Lieutenant-Colonel H. A. BROWNLOW, R.E., Officiating Deputy Secretary to the Government of India, Public Works Department, (Civil Works—Irrigation,) to the Joint Secretary to the Government of Madras, Public Works Department, Irrigation Branch, dated Simla, 23rd July 1877, No. 198—211 I.

Revenue Report, Irrigation Department, Punjab, for the year 1875-76.

Read—

Letter from the Government of the Punjab, Public Works Department, Irrigation Branch, No. 708 I. of 2nd March 1877, forwarding a copy of the Revenue Report of Irrigation Works in the Punjab for the year 1875-76 by the Chief Engineer, and of the Resolution of that Government reviewing the same, with its enclosures.

OBSERVATIONS.—The Governor-General in Council regrets that this report has been received 3½ months after the prescribed date, and observes that no explanation has been furnished of the cause of delay.

2. Including all the canals in operation the area irrigated has decreased from 1,208,703 acres in 1874-75 to 1,098,429 acres in 1875-76; this unfavorable result is chiefly due to the heavy rainfall of the year which enabled the cultivators to dispense with irrigation for their cold weather crops. The great bulk of the decrease has occurred on the two permanent canals—the Western Jumna and Bari Doab,—and a comparison of the areas irrigated during the past eight years shows that the falling off is much more marked on the former than on the latter canal.

Years.	WESTERN JUMNA CANAL.		BARI DOAB CANAL.	
	Acres irrigated.	Percentage of 1868-69 to 1872-73.	Acres irrigated.	Percentage of 1868-69 to 1872-73.
Average of five years 1868-69 to 1872-73 ...	413,440	100.0	265,767	100.0
1873-74 ...	311,747	75.4	232,146	87.3
1874-75 ...	332,847	92.6	279,813	105.2
1875-76 ...	309,595	74.9	214,599	80.7

3. A strong characteristic of the rainfall of the year was the exceptional heaviness of the local fall near Delhi in September and in the upper portion of the Bari Doab during August and September 1875. On the 9th September 23 inches fell in 30 hours near Delhi, and the resulting floods caused most serious injury to the various works in the neighbourhood, while the floods in the river Ravi and in the Bari Doab breached the weir and outlet at Madhopur, besides damaging severely the newly finished earthwork of the Subraon Branch.

4. The total amount of capital sunk in the Punjab canals to the end of the year under review was Rupees 3,33,55,010 as shown in the tables of financial results attached to this Resolution, while up to the same date the excess of net revenue over interest charges amounted to Rupees 1,91,56,700.

5. The heavy floods before alluded to increased the working expenses of the year, and the net profits from direct revenue consequently exhibit a falling off in comparison with the returns of previous years.

6. It is stated in paragraph 3 of the Resolution by the Local Government that the net revenue of the year including land revenue was Rupees 16,58,470. If the charge for interest (Rupees 12,51,884) be deducted from this sum, there will remain a surplus of Rupees 4,06,586; but in paragraph 5 of the same Resolution it is stated that the net revenue exceeds the charge for interest by only Rupees 3,85,465. The difference of Rupees 21,121 is apparently due to the deficit on the working of the Madhopur Workshops, which has been included in the one set of figures and not in the other.

ORDER.—Ordered that copies of his Resolution and of the report be forwarded to the Secretary of State, and to the Financial, and Revenue, Agriculture and Commerce Departments for information.

*The Governments of Madras, Bombay, Bengal, North-Western Provinces and Oudh, The Chief Commissioners of the Central Provinces, British Burmah and Mysore and Coorg, The Resident at Hyderabad, The Agents to the Governor-General for Central India and Rajpootana.

Ordered, also, that copies of the Resolution be forwarded to the Government of the Punjab and the several other Local Governments and Administrations in the Public Works Department, Irrigation Branch, for information.

Ordered, further, that this Resolution, the Resolution of the Local Government and the Chief Engineer's report, with a few selected tables, be forwarded to the Home Department for publication in the *Gazette of India* Supplement.

STATEMENT of Financial Results of Irrigation Works in the Punjab, based on the Actual Cash Receipts for and up to the end of the year 1876-75.

	WORKS IN OPERATION.										CANALS UNDER CONSTRUCTION.					Grand Total.
	Western Jumra Canal.	Delhi and Gurgaon Irrigation Works.	Bara Canal, including Madhopur Works.	Lower Sutlej and Chamb Irriga- tion Canals.	Upper Sutlej Irriga- tion Canals.	Indus Irriga- tion Canals.	Shah- pore Canals.	Total.	Subsidy Canal.	Grand River Canals.	Special Survey, Droghda Canal.	Special Survey, Lower Sutlej Canal.	Total.			
CAPITAL OUTLAY. (Without Interest).																
For the year.	2,430	49,184	7,911	35	9,275	10,458	..	23,312	83	..	6,843	7,163	13,084	24,596	2	
	..	..	82,709	..	..	..	..	81,595	188,405	..	..	..	143,164	230,547	..	
	..	..	84	..	180	..	..	275	1,036	..	..	..	59,956	80,000	..	
To end of year.	61,614	..	49,704	30	2,407	10,598	..	106,478	239,645	..	6,843	7,163	231,432	258,016	..	
	232,265	18,323	1,216,533	10,791	47,545	57,516	2,122	1,685,511	8,536	405	24,366	18,549	46,786	1,692,277	..	
	199,990	..	599,179	..	2,565	..	..	466,734	700,024	6,489	1,677	21,307	268,147	1,276,461	..	
Capitalization of land revenue.	408	..	392	..	189	..	..	997	7,329	..	..	..	413,599	418,003	..	
	..	..	..	..	..	6	..	..	..	..	..	..	7,329	8,326	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
REVENUE ACCOUNT.																
Gross Revenue.																
For the year.	100,572	474	77,223	12,140	911	2,438	625	194,853	..	..	..	..	..	194,853	..	
	40,128	..	16,663	21,339	7,661	10,792	..	103,964	..	..	..	..	..	103,964	..	
	144,600	473	93,560	38,876	8,307	27,150	403	269,242	..	..	..	..	..	269,242	..	
To end of year.	2,055,184	6,403	537,473	190,550	60,187	61,802	3,625	3,210,293	..	..	..	..	..	3,210,293	..	
	1,485,685	52,331	275,993	89,938	61,953	197,878	..	2,310,283	..	..	..	..	..	2,310,283	..	
	3,626,769	26,994	1,166,177	280,485	131,740	256,940	3,028	6,730,376	..	..	..	..	..	6,730,376	..	
Working Expenses.																
During year.	37,516	1,258	60,240	16,370	11,367	19,001	623	136,214	..	..	..	..	..	136,214	..	
	865,981	21,004	612,951	269,995	144,404	218,100	2,676	2,121,701	..	..	..	..	..	2,121,701	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Net Revenue.																
For the year.	63,356	784	26,283	4,230	10,296	15,563	103	68,409	..	..	..	..	..	68,409	..	
	103,484	784	43,636	17,100	2,945	3,132	103	163,733	..	..	..	..	..	163,733	..	
	1,159,203	18,141	224,926	61,635	76,917	161,293	1,032	1,688,592	..	..	..	..	..	1,688,592	..	
To end of year.	2,664,788	34,390	553,225	225,403	13,364	46,480	1,032	3,496,876	..	..	..	..	..	3,496,876	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
SIMPLE INTEREST ON CAPITAL.																
(Including interest which work was under construction).																
For the year.	18,244	825	60,944	485	3,287	2,438	95	81,318	..	..	..	..	..	81,318	..	
	284,682	22,559	1,092,827	7,130	30,324	27,221	461	1,667,634	..	..	..	..	..	1,667,634	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Differences between net revenue and charge for interest.																
For the year.	45,112	1,509	39,661	4715	12,683	19,091	8	32,862	..	..	..	..	..	32,862	..	
	86,210	1,509	23,508	16,615	6,383	761	8	72,415	..	..	..	..	..	72,415	..	
	784,621	40,500	567,799	69,865	108,441	173,313	571	1,735,932	..	..	..	..	..	1,735,932	..	
To end of year.	2,270,206	11,731	589,101	216,273	45,486	10,670	571	2,931,251	..	..	..	..	..	2,931,251	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

STATEMENT of Financial Results of Irrigation Works in the Punjab for and to the end of the year 1875-76, the Revenue Account being based on the assessments.

	CAPITAL OUTLAY.		REVENUE ACCOUNT, 1875-76.				Charges for Interest during 1875-76.	PERCENTAGE OF NET REVENUE ON CAPITAL TO END OF YEAR.		Area irrigated.
	During year.	To end of year.	Gross direct Revenue assessed.	Working Expenses.	Net Revenue.	Add indirect Revenue assessed.		Direct.	Indirect.	
	£	£	£	£	£	£	£			ACRES.
WORKS IN OPERATION.										
Western Jumna Canal	51,314	432,764	82,138	37,516	44,622	40,128	18,244	10.31	19.58	309,595
Delhi and Gurgaon Irrigation Works	...	18,340	433	1,258	—825	...	825	—4.49	—4.49	8,414
Bari Doab Canal (including Madhopur workshops)	40,704	1,510,104	62,350	50,240	12,110	15,760	66,944	80	1.81	214,599
Lower Sutlej and Chenab Inundation Canals	35	10,791	12,140	16,370	—4,230	21,320	485	—39.21	158.45	277,833
Upper Sutlej Inundation Canals	2,467	51,509	911	11,307	—10,396	8,098	2,287	—20.15	—4.45	138,387
Indus Inundation Canals	10,668	57,522	2,438	19,001	—16,563	19,702	2,438	—28.79	5.46	144,960
Shapur and Shahival Canals	...	2,123	625	522	103	...	95	4.85	4.85	4,941
	105,473	2,083,242	161,035	136,214	24,821	105,018	91,318	1.19	6.23	1,098,429
CANALS UNDER CONSTRUCTION.										
Sirhind Canal	239,545	1,179,498	...	...	...	...	30,957	...	...	...
Sweet River Canals	...	6,984	...	...	...	...	314	...	...	...
Special Survey, Derajat Canal	5,848	26,063	...	...	...	...	1,003	...	...	...
" Lower Bari Doab Canal.	7,139	39,716	...	...	...	...	1,595	...	...	...
	252,532	1,252,261	...	...	...	...	33,869	...	...	...
Grand Total	358,010	3,335,503	...	...	...	...	125,187	...	...	...

PUBLIC WORKS DEPARTMENT, 9TH AUGUST 1877, No. 227 I.

No. 34. ORDER THEREON, 9th August 1877, No. 227 I.

COMMUNICATED to the officers concerned and to the Revenue Department.

(True Extract.)

Colonel, R.E.
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the District Engineer, Godavery.
" " Kistna.
" " Nellore.
" " Chingleput.
" " Tanjore.
" " South Arcot.
" " Tinnevely.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. A. Grubert.
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Revenue Department
No. 3464
IRRIGATION.

Govt. of Madras
PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
GODAVERY,
&c., &c., &c.

Dated August 8th.

Issued

Recd. 21 August 1877. Encl.

G. O., 9th August 1877, No. 227 L.

AUGUST.

Nos. 33-34.

Revenue Report, Irrigation Department,
Punjab, for the year 1875-76.—Communica-
tes to the officers concerned and to the
Revenue Department Proceedings of the
Government of India on the

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Camin. to the
Board of Revenue
22nd Aug 77

9 To H. D. Revenue 24. 877