

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2161	Press
B.P. No.		Mis.
Dated	26-7-195	CR 75

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
26th July 1875.*

No 683 Read the following Proceedings of the Government of India in the Public Works Department (Civil Works—Irrigation), dated Simla, 3rd July 1875, No 198—213 I. —

Revenue Report of Irrigation Works in the Punjab for the year 1873-74.

Read—

Letter from the Government of the Punjab, Public Works Department, Irrigation Branch, No 5,071 I, dated 22nd December 1874, forwarding a copy of the Revenue Report of Irrigation Works in the Punjab for the year 1873-74, and of the Resolution of that Government reviewing the same

OBSERVATIONS—The submission of this report is nearly a-month behind time. The delay is attributed to the non-receipt of the statements of accounts from the Controller's Office in time to be used by the Superintending Engineers in the preparation of their reports. The Accountant-General, Public Works Department, will be instructed to report on the cause of the delay.

2 The operations of the year having been reviewed in detail by the Local Government, only the general results and a few points requiring attention will be noticed here

3 In the abstract of general financial results annexed to the Chief Engineer's report there are some errors which will be separately remarked on. The correct figures will be found in the two accompanying statements, the first of which shows the results according to the actual cash receipts during the year, and the second according to the assessments for the year. The amounts shown as "indirect" or enhancements of land-revenue due to the irrigation will probably be subject to alterations on account of remissions of demands and other causes, which will not, however, materially affect the general financial results. From the above statements it appears that—

	£
On the whole the total capital outlay on Irrigation Works in the Punjab to the end of 1873-74 has amounted to	2,684,279
Of this amount, the sum spent on canals under construction is ..	798,182
Leaving as the capital outlay on works in operation, including the Madhopoor workshops	1,886,097
The net return derived by Government from these works by direct receipts from water-rates and miscellaneous items of income, and after deduction of working expenses during 1873-74, and after providing for an adjusting charge of £29,109 for the Madhopoor Workshops, is	48,555
And the increased land-revenue due to the works is reported to amount to	96,826

The result being a net profit of 145,411
or 7.72 per cent on the capital outlay—a decrease of 1.14 per cent from the result of the previous year. This is due to an increase in the capital outlay of £108,317 and a decrease in the net receipts of £5,962.

*Proceedings of the Madras Government, Public Works Department,
26th July 1875.*

4. The decrease in the receipts is accounted for by a diminution of the area irrigated during the year, the causes of which are shown to be in the case of the permanent canals a fairly abundant rainfall generally, and in one instance also to a temporary decrease of cultivation owing to a revision of the land revenue being in progress; and on the inundation canals to an exceptionally unfavorable condition of the rivers, which rose late and fell early—contingencies to which works of this nature are occasionally liable.

5. On the Western Jumna Canal the decrease in the last two years below the average is very marked, owing mainly, it would appear, to the disturbing influence of the land settlement operations, which, however, is not likely to continue long. Unsatisfactory as the result is as regards the canal finances, it is not, as remarked by the Chief Engineer, an unmitigated evil, the effect being most beneficial in many instances to the land which required rest after years of continuous cultivation and over-irrigation.

6. The Barce Doab Canal, though not up to the standard to be expected from it, still shows an area of 3,350 acres in excess of the previous year. The income from water-power on this canal, it is satisfactory to observe, is rapidly increasing.—having reached the sum of Rupees 31,201 in the year under review, or more than double the return from this source two years ago.

7. Of the inundation canal series, the Upper Sutlej shows the largest decrease. In addition to the causes affecting all these works equally, the introduction of new water rates and system of assessing for the first time during the year under review tended to lessen the area irrigated from this series.

8. On the whole, considering the adverse influences at work during the year, the results are fairly satisfactory.

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

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, and to the Accountant General, Public Works Department, for the purpose indicated in paragraph 1.

• Madras	British Burmah
Bombay	Mysore and Coorg
Bengal	Hyderabad
North-West Provinces	Central India
Oudh	Rajpootana
Central Province.	

*Proceedings of the Madras Government, Public Works Department,
26th July 1875*

Ordered further, that this Resolution, the Resolution of the Local Government, and extracts of the Chief Engineer's Report, be forwarded to the Home Department for publication in the Supplement to the *Gazette of India*.

(By Order)

(Signed) C H DICKENS, Colonel, R.A.,
Secretary to the Government of India.

Proceedings of the Madras Government.

Statement of Financial results of Irrigation Works in the Punjab.

WORKS IN OPERATION						
	Western Punjab Canal	Doon & Coastal Works	Lower Sutlej & Coastal Canals	Lower Sutlej & Coastal Canals	Lower Sutlej & Coastal Canals	Lower Sutlej & Coastal Canals
Capital Account						
For the year	£	£	£	£	£	£
Ordinary	111	724	—42	—21	—	20
Extraordinary	22,132	—	27,142	—	—	—
Capital account of land re- venue	—	2	25	—	—	6
Total	22,243	726	27,100	—42	—21	26
To end of year	£	£	£	£	£	£
Ordinary	111,100	14,338	11,112	10,421	40,706	41,216
Extraordinary	19,104	—	22,156	—	8,563	—
Capital account of land re- venue	—	2	25	—	—	6
Total	230,204	14,340	33,293	10,421	49,269	41,222
REVENUE ACCOUNT						
For the year	£	£	£	£	£	£
Direct	100,120	518	64,472	111,828	911	7,433
Indirect	7,118	243	13,445	21,240	7,724	16,978
Total	107,238	761	77,917	133,068	7,635	24,411
To end of year	£	£	£	£	£	£
Direct	1,011,672	2,222	633,000	1,234,414	67,372	52,517
Indirect	1,408,701	62,111	77,440	141,128	41,410	174,848
Total	2,420,373	64,333	710,440	1,375,542	108,782	227,365
Working Expenses						
For the year	£	£	£	£	£	£
Direct	2,770	1,412	34,600	14,300	11,701	15,800
Indirect	794,71	20,10	424,100	210,100	125,013	174,020
Total	801,480	21,512	458,700	224,400	136,714	189,820
To end of year	£	£	£	£	£	£
Direct	1,014,481	12,714	107,600	22,181	84,601	102,400
Indirect	1,408,701	62,111	77,440	141,128	41,410	174,848
Total	2,423,182	74,825	185,040	263,309	126,011	277,248
Surplus Interest Account						
For the year	£	£	£	£	£	£
Direct	14,476	87	61,178	471	1,038	1,004
Indirect	230,125	21,400	27,156	6,100	20,000	20,770
Total	244,601	21,487	88,334	6,571	21,038	21,774
To end of year	£	£	£	£	£	£
Direct	40,572	1,412	28,000	14,300	11,701	15,800
Indirect	82,126	20,10	424,100	210,100	125,013	174,020
Total	122,698	21,512	452,100	224,400	136,714	189,820
To end of year	£	£	£	£	£	£
Direct	1,014,481	12,714	107,600	22,181	84,601	102,400
Indirect	1,408,701	62,111	77,440	141,128	41,410	174,848
Total	2,423,182	74,825	185,040	263,309	126,011	277,248

Notes.—The amounts shown in the indirect revenue account are subject to all deductions of 22,500 on account of over-estimation of the 1882-83 estimate. The amount of credit in the indirect revenue account is shown under "Interest" as it is a credit to the Punjab. In the balance sheet the amount is shown under "Interest" as it is a credit to the Punjab. The correction of the entry in (a) causes a difference of £4,124 between the amount shown in the Punjab and the amount shown in the Madras accounts.

Public Works Department, 26th July 1875.

based on the actual Cash receipts for and up to the end of the year 1873-74

CANALS UNDER CONSTRUCTION.									
Shahpore and Shahiwal Canals	Total	Sirhind Canal	Swat River Canal	Special Survey, Derajat Canal	Special Survey, Lower Barot Canal	Total	Total	Madhopoor Workshops	Grand Total
£	£	£	£	£	£	£	£	£	£
815	815	—	—	13,902	—	13,902	14,717	—27,148	—12,431
61,525	61,525	84,168	1,253	—9,293	7,147	87,285	138,810	—	138,810
203	203	49,946	—	—	—	49,946	49,946	—	49,946
—	—	6,089	—	—	—	6,089	6,351	—	6,351
52,603	52,603	143,202	1,253	4,619	7,147	156,221	209,824	—27,148	181,676
2,123	1,409,919	8,453	405	17,129	11,196	32,273	1,532,222	57,836	1,590,058
—	328,049	460,483	6,459	1,077	10,679	805,328	831,877	—	833,377
—	203	254,493	—	—	—	254,493	254,493	—	254,493
—	—	6,089	—	—	—	6,089	6,351	—	6,351
2,122	1,638,261	744,517	6,094	18,806	27,875	798,182	2,626,443	57,836	2,684,279
648	195,311	—	—	—	—	—	195,311	3,534	198,845
—	90,856	—	—	—	—	—	90,856	—	(b) 90,856
548	292,167	—	—	—	—	—	292,167	3,534	295,701
2,214	2,836,134	—	—	—	—	—	2,836,134	3,534	2,839,668
—	2,320,140	—	—	—	—	—	2,320,140	—	(b) 2,320,140
2,214	5,156,280	—	—	—	—	—	5,156,280	3,534	5,159,814
419	117,617	—	—	—	—	—	117,617	82,613	150,230
1,638	1,834,074	—	—	—	—	—	1,834,074	82,613	1,867,317
129	77,664	—	—	—	—	—	77,664	—29,109	48,555
—	90,856	—	—	—	—	—	90,856	—	(b) 90,856
129	174,520	—	—	—	—	—	174,520	—29,109	145,411
529	1,001,400	—	—	—	—	—	1,001,400	—29,109	972,291
—	2,320,140	—	—	—	—	—	2,320,140	—	(b) 2,320,140
529	3,321,600	—	—	—	—	—	3,321,600	—29,109	3,292,491
95	81,007	20,734	296	766	1,124	22,910	103,917	—17,687	86,230
291	1,322,285	48,808	681	1,868	3,085	64,423	1,276,707	7,173	1,283,880
84	—3,341	—20,734	—296	—766	—1,124	—22,910	—26,253	—11,412	—37,665
—	90,856	—	—	—	—	—	90,856	—	(b) 90,856
84	93,513	—20,734	—296	—766	—1,124	—22,910	70,603	—11,412	59,191
338	—320,825	—49,808	—581	—1,868	—3,085	—64,423	—375,247	—86,282	—461,529
—	2,320,140	—	—	—	—	—	2,320,140	—	(b) 2,320,140
338	2,000,321	—49,808	—581	—1,868	—3,085	—64,423	2,004,699	—86,282	1,918,417

expenses " was £6,354, but it has since been explained by the Government of the Punjab that the amount was erroneous. the Finance accounts.

Statement of Financial results of Irrigation Works in operation in the Punjab for, and to the end of, the year 1873-74, the Revenue Account being based on the Assessments of year 1873-74

Works in operation.	CAPITAL.		GROSS ASSESSMENTS FOR 1873-74.		Working Expenses.	Profit or Loss.				PERCENTAGE OF PROFIT OR LOSS ON CAPITAL AT BEGINNING OF YEAR.				Acres irrigated.
	To end of 1873-74.	To end of 1873-74.	Direct.	Direct and indirect.		Direct.		Direct and indirect.		Direct.		Direct with indirect.		
						Profit.	Loss.	Profit.	Loss.	Profit.	Loss.	Profit.	Loss.	
Western Jumna Canal	Rs. 31,14,312	Rs. 32,42,119	Rs. 5,31,806	Rs. 12,21,449	Rs. 3,23,903	4,79,974	—	Rs. 8,21,827	—	13.34	—	37.33	—	811,767
Do. and Ganges works.	1,31,353	1,63,400	7,487	32,135	14,119	—	6,313	19,846	—	—	3.56	9.80	—	16,813
Eastern Canal	1,28,43,564	1,27,35,073	6,43,116	8,33,668	3,64,986	3,13,613	—	5,30,054	—	3.37	—	3.77	—	212,166
Cygar Sahay Canal	4,02,309	4,43,710	91,160	91,160	1,17,816	—	31,454	—	31,454	—	8.63	—	8.63	61,313
Lower Sahay & Chumab Canals	1,84,197	1,94,739	1,51,473	2,14,771	1,63,933	—	43,313	1,29,273	—	—	40.13	12.31	—	197,864
Indian Canal	4,17,123	4,27,543	60,316	9,90,234	1,43,619	—	1,00,343	42,171	—	—	34.69	14.21	—	143,020
Shahpur Canal	21,251	31,571	8,315	4,315	4,137	1,145	—	1,145	—	4.41	—	5.41	—	4,059
Total 1873-74	1,27,54,186	1,31,51,117	17,93,118	27,11,578	11,27,479	7,99,809	1,27,343	16,11,445	31,454	—	—	—	—	9-2,323
Add Yearly Depreciation & other items	871,421	1,51,596	—	—	—	—	—	—	—	—	—	—	—	—
Grand Total	1,36,35,607	1,39,02,713	—	—	—	—	—	16,11,445	31,454	—	3.43	—	8.43	—

Proceedings of the Madras Government, Public Works Department,
26th July 1875.

No 687.

ORDER THEREON, 26th July 1875, No 2,141.

IRRIGATION, No 67.

COMMUNICATED to the Officers concerned, and to the Revenue Department.

True Extract)

Major, R.E.,

Offg Joint Secretary to Government.

To the District Engineer, Godavery
 " " " Kistna
 " " " Nellore
 " " " Chingleput
 " " " Tanjore
 " " " South Arcot
 " " " Tinnevely
 " Revenue Department

Exd E C Shunker.

Spars Copies

Enclosure to Public Works Department Resolution Nos. 198—213 I, dated 3rd July 1875.

Statement of financial results of Irrigation Works in operation in the Punjab for and to the end of the year 1873-74, the Revenue Account being based on the assessments of year 1873-74.

WORKS IN OPERATION	CAPITAL		GROSS PAYMENTS FOR 1873-74		Working expenses.	Profit or Loss.				PERCENTAGE OF PROFIT OR LOSS ON CAPITAL AT BEGINNING OF YEAR				Acres irrigated
	To end of 1872-73.	To end of 1873-74	Direct.	Indirect.		Direct.		Direct and indirect.		Direct.		Direct with indirect.		
						Profit.	Loss.	Profit.	Loss.	Profit.	Loss.	Profit.	Loss.	
Western Jumna Canal	Rs. 31,16,931	Rs. 33,42,159	Rs. 8,51,590	Rs. 12,24,450	Rs. 3,72,932	Rs. 4,78,914	...	Rs. 8,51,477	...	15 36	...	27 32	...	311,747
Delhi and Gurgaon Works	1,53,355	1,83,410	7,607	32,135	14,129	...	6,522	19,006	...	...	3 56	9 82	...	16,533
Barce Doab Canal	1,34,42,560	1,37,50,775	6,65,114	8,53,560	3,46,086	8,19,028	...	5,07,474	...	2 37	...	8 77	...	232,146
Upper Sutlej Canals	4,42,919	4,42,710	81,380	81,350	1,17,034	...	35,654	...	35,654	...	8 05	...	8 05	65,233
Lower Sutlej & Chenab Canals	1,05,197	1,04,709	1,21,472	3,34,771	1,63,993	...	42,321	1,70,778	...	...	40 42	162 34	...	197,064
Indus Canals	4,37,359	4,37,613	50,310	2,20,234	1,58,059	...	1,07,543	62,175	...	...	24 58	14 21	...	163,020
Shahpur Canals	21,221	21,221	5,335	5,335	4,187	1,148	...	1,148	...	5 41	...	5 41	...	4,080
Total 1873-74	1,77,56,550	1,82,82,597	17,53,320	27,51,874	11,76,470	7,99,090	1,92,240	16,11,058	35,654	...	...	...	...	989,823
All Madhopoor Workshops	8,75,471	5,78,366	...	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL	1,86,32,051	1,88,60,963	...	...	...	6,06,850	...	15,75,404	...	3 42	...	8 45	...	...

Irrigation

To

No: 4837

Dated SIMLA, July 3, 1875

Received

WIA, July 3, 1975
July 26 -]

८२.

Orders on Revenue Report of Irrigation Works in the Punjab for the year, 1873-74.

No 2141 D/26 - July 1875

18 Robinson
 18 North
 18 Holland
 18 China Road
 18 Sanford

206

SC. 5011-13-8-75

No. 2141 of 28th July 75—
Received from the
^{Votingman} Commissioned to take Office
of General and John Thomas West.

42-656-87

L. Shurt 19 64

4557 ✓
51 ✓
Govt. of (1875) Madras.

PUBLIC WORKS.

To

M. R. R.
Secretary

Date

Received

By

Per

G. O. R. R. 2/11

No. 111

Enclosed for the
Honble the Commr. of
the Port of Suva
Transformation Order -
forwarded to the Officer Com-
manding & to the Hon. Secy