PUELIC WORKS DEPARTMENT (BOMBAY PRESIDENCY)

ADMINISTRATION REPORT

FOR THE YEAR

1916-1917



PART II

IRRIGATION WORKS

ACCOUNTS AND STATISTICAL STATEMENTS.

(Part I-Civil and Military Works and Railways is issued separately)

BOMBAY
PRINTED AT THE GOVERNMENT CENTRAL PRESS
1918

[Price-Rs. 10-6-0 or 15s. 6d.]

OFFICIAL AGENTS FOR THE SALE OF INDIAN OFFICIAL PUBLICATIONS.

IN ENGLAND.

CONSTABLE & Co., 10, Orange Street, Leicester Square, W. C., London. GRINDLAY & Co., 54, Parliament Street, S. W., London. HENRY S. KING & Co., 65, Cornhill, E. C., London.

P. S. KING & SON, 2 & 4, Great Smith Street, Westminster, S. W., London.

KEGAN PAUL, TRENCH, TRUBNER & Co., Ltd., 68-74, Carter Lane, E. C., and 25, Museum Street, W. C., London.

B. QUARITCH, 11, Grafton Street, New Bond Street, W., London.

W. THACKER & Co., 2, Creed Lane, London, E. C.

LUZAC & Co., 46, Great Russel Street, London, W. C.

B. H. BLACKWELL, 50 & 51, Broad Street, Oxford.

DEIGHTON BELL & Co., Limited, Cambridge.

T. FISHER UNWIN, Limited, 1, Adelphi Terrace, London, W. C.

ON THE CONTINENT.

ERNEST LEROUX, 28, Rue Bonaparte, Paris. MARTINUS NIJHOFF, The Hague.

IN INDIA.

HIGGINBOTHAM & Co., Madras.

V. KALYANARAMA IYER & Co., Madras.

P. R. RAMA IYER & Co., Madras.

THACKER, SPINK & Co., Calcutta.

W. NEWMAN & Co., Calcutta.

S. K. LAHIRI & Co., Calcutta.

R. CAMBRAY & Co., Calcutta.

THACKER & Co., Limited, Bombay.

A. J. COMBRIDGE & Co., Bombay.

SUPERINTENDENT, GOVERNMENT PRINTING, BOMBAY, Poona.

D. B. TARAPOREVALA, SONS & Co., Bombay.

GOPAL NARAYEN & Co., Booksellers, etc., Bombay.

N. M. TRIPATHI & Co., Booksellers, etc., Bombay.

Mrs. RADHABAI ATMARAM SAGOON, Bookseller, etc., Bombay. RAMCHANDRA GOVIND & SON, Booksellers, etc., Bombay.

The state of the state of both, booksonors, order, both

BOMBAY TRACT AND BOOK SOCIETY, Bombay. N. B. MATHUR, N. K. H. Press, Allahabad.

WANACED MVAVACUDAVA DDEGG D.

MANAGER, NYAYASHRAYA PRESS, Poona.

RAMA KRISHNA & SONS, LAHORE.

••	00	ITE	NTS.		***	-174 MILLINE
I. General—			ortion.	ALC: N	1.	1F-048
· ·				#10 2.77	~~ C	- 700
A. Details of Expenditure		•••	•••			المالينين
B. Figures for Capital Worl	•	*** *l	***	3	الحياتة	أأسينا
C. Figures for other than Ca	apitai w	orks	•••	فبالشلعندا	•••	ii—iii
.D. Review of Irrigation		•••	•••	••••	• • • • • • • • • • • • • • • • • • • •	iii—iv
II. Sind—			•	•		
1.—Nature of inundation and			***	•••	***	iv
2.—Indus Right Bank Division			•			
(i) Works for which Ca					•••	iv—v
(ii) Works for which onl	•	nue Acc	ounts are k	ept	•••	v—vi
3.—Indus Lest Bank Division		•				
(i) Works for which Ca	pital and	I Reven	ue Accounts	s are kept—		
(a) Canals taking of	f from th	he East	ern Nara	***	•••	vii—viii
(b) Canals taking of	ff direct	from th	e Indus	•••	•••	viii—ix
(ii) Works for which on	ly Revei	nue Acc	ounts are k	ept	٠	i x— x
4.—Protective Embankments		•••	•••	•••		x—xi
5.—Indus River Commission		•••	•••	•••	•••	xi—xii
6.—Miscellaneous		•••	***	***	•••	· ĸii—xiii
III. Deccan and Gujarát-					٠.	
1.—Northern Division—			•	• '		
(i) 1st class Irrigation V	Vorks	•				xiii—xiv
(ii) 2nd class Irrigation		nd Agr	icultural We	rke	•••	xiv
2.—Central Division—			.cuitatat iii		•••	XIV
(i) 1st class Irrigation \	Morke					
(ii) 2nd class Irrigation		•••	•••	•••	•••	xiv—xv
3Deccan Irrigation Division		•••	•••	•••	٠	χv
(i) 1st class Irrigation V		_		para	يمهر سر)
.,		-		1	()	}
(a) Works in existe			•••	/	. 1	xv.
(b) Works under co		Ou	•••	∳		xv—xvii
(ii) 2nd class Irrigation	WORKS	***	•••	🔏		, xvii
4.—Southern Division—	17. 1			•	-	
(i) 1st class Irrigation V		•••	•••	•••	•••	xvii—xviii
(ii) 2nd class Irrigation	Works	••••	•••	***	•••	xviii
5. Scientific Works-					•	•
(a) River gauging		•••	•••	• •••	***	xviii—xix
(b) Experiments on	the effi	ciency o	of canals	•••	•••	xix
Admi	nistrati	ve Ácc	ounts.			
Administrative Accounts, Public V	Vorks D	epartm	ent (Irrigati	on), for the B	lombay	
Presidency and Sind		•••	•••	•••	•••	1-129
Statistical Statements for	Irrigat	ion W	orks, Decca	an and Guja	rat.	•
Statement I A-Statement showin	g size, c	comman	d, length an	d cost of can	als	132-133
Statement II A-Statement show	ing det	ails of	catchment	area, storage	, com-	- ••
	ojects	•••			•••	134-135
mand and cost of reservoir pr		igation	Works fo	r and to e	nd of	
Statement I B-Capital Account	of Irr					136139
Statement I B—Capital Account			•••	,	•••	130-139
Statement I B—Capital Account 1916-17 Statement I C, showing financia ending 31st March 1917.	ıl resul	 Its of i tions u	rrigation v	vorks for the	e year evenue	
Statement I B—Capital Account 1916-17 Statement I C, showing financia ending 31st March 1917. and working expenses	ıl resul Realiza	tions u	nder main	heads of r	evenue	140—141
Statement I B—Capital Account 1916-17 Statement I C, showing financia ending 31st March 1917, and working expenses Statement II C, showing general	ıl resul Realiza	tions u	nder main	heads of r	evenue or and	140—141
Statement I B—Capital Account 1916-17 Statement I C, showing financia ending 31st March 1917, and working expenses Statement II C, showing general to end of 1916-17	l resul Realiza financia	tions u	nder main ts of irriga	heads of r	or and	140—141 142—143
Statement I B—Capital Account 1916-17 Statement I C, showing financia ending 31st March 1917, and working expenses Statement II C, showing general to end of 1916-17 Statement III C—Demands and re	l resul Realiza financia	tions u	nder main ts of irriga g the year	heads of r tion works fo	or and	140—141
Statement I B—Capital Account 1916-17 Statement I C, showing financia ending 31st March 1917, and working expenses Statement II C, showing general to end of 1916-17	l resul Realiza financia	tions u	nder main ts of irriga g the year	heads of r tion works fo	or and	140—141 142—143

	Pages.
Statement I E, showing areas irrigated and average discharges and duty of water in regard to irrigation works during 1916-17	145-147
Statement II E, showing incidence of working expenses and assessed revenue on certain irrigation works during 1916-17	148—149
Statement III E, showing quantity and value of crops irrigated during	150-159
Statement IV E—Comparative Statement of irrigation and rainfall for the years 1915-16 and 1916-17	160—163
Statement F, showing remissions on irrigation works for the year 1916-17	164
Statement I F, showing water-rates per acre in force during 1916-17	165—166
Statement G, showing areas and water-rate assessments during 1916-17 according to the system of classification adopted in fixing the scale of water-rates	167—160
Statement H, showing operations of the year 1916-17	170-171
Statistical Statements for Sind.	
Statement I A—Statement showing size, command, length and cost of canals Statement I B—Capital Account for Irrigation Works for and to end of	174-177
1916-17	178—179
Statement I C, showing the financial results of irrigation works for the year ending 31st March 1917. Realizations under main heads of revenue and	
working expenses	180181
Statement II C, showing general financial results of irrigation works for and to end of 1916-17	182—183
Statement III C, showing general financial results of irrigation works for and to end of 1916-17	184
Statement IV C, showing the financial results of irrigation works for 1916-17	185187
General Abstract of financial results of irrigation works for and up to end of	105-107
1916-17	188-195
Statement I E, showing areas irrigated and discharges and duty of water in	
relation to certain works during 1916-17	196—197
Statement II E, showing incidence of working expenses and assessed revenue on certain canals during 1916-17	. 198
Statement III E, showing quantity and value of crops irrigated during	
1916-17	199207
Statement IV E—Comparative Statement of irrigation and rainfall for the years 1915-16 and 1916-17	208-211
Maps.	
Map of the Northern Division.	
Do. Southern Division. Index map of the Indus Right and Left Bank Divisions,	