

Revenue (1898) Department.

MISCELLANEOUS SERIES.

G.O., No. 4950

DATED 15th December 98

[Despatch Abstract.]

Recording Profr: P.W. Dept. ordering that the
Statements of financial results of irrigation
& navigation Works for 1897-98, with note
thereon by the Chief Engineer for Irrigation, be
forwarded to the Govt. of India.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Revenue Department

IRRIGATION.
ACCOUNT.

Government (1898) of Madras.
PUBLIC WORKS.

Current No. 8442

Recd. } 10th Dec^r } 1898.
Regd. }

Enclosures

Spare copies

15/12

G.O., No. 932 I., 3rd December 1898.

DECEMBER.

G.O. No. 4950 9/15th Dec 1898

Recorded.

11/13/12/18

12-12-98

16 Cpy to the B^d of Rev (Neo. Lett) 16-12-98

10-12-98

Financial Results of Irrigation and Navigation Works

Ordered that the statements of — for 1897-98, with note thereon by the Chief Engineer for Irrigation, be forwarded to the Government of India.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers:—

Office-note from the Examiner of P.W. Accounts, dated 16th Sept. 1898, No. 3201 B./B.
" to the " " 4th Nov. " " 332.
" from the " " 11th " " 3836 B./B.
Reminder from the Government of India, dated 7th November 1898, No. 52 A.I.

No. 295 I.

Note by the Chief Engineer for Irrigation.

With his office-notes read above, the Examiner of Public Works Accounts forwards the statements of financial results of Irrigation and Navigation works for 1897-98 for submission to the Government of India.

2. To prevent misconception it should be stated that in many cases the increase of revenue is not all derived from new irrigation. The Periyár project, for instance, the accounts of which were misunderstood last year, is as much a project for the irrigation of old precariously supplied wet land as for the irrigation of new land. In the estimates on which the financial forecasts were based, the increase of assessment on old wet land was entered at over Rs. 2 per acre for each crop, while the charge for irrigation of dry occupied land was entered at Rs. 5. The areas in the forecast statement represent the old and new land taken together, and the revenue entered is the average revenue from both. The cause of the smallness of the credits to the project is being enquired into.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

21st November-1898.

ORDER—No. 932 I., dated 3rd December 1898.

Ordered that a copy of these proceedings, with the statements received from the Examiner of Public Works Accounts, be forwarded to the Government of India with reference to its circular No. 23 of 1881.

[Here enter No. 933 I., dated 3rd December 1898.]

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineers of Circles.
" the Superintending Engineer on special duty,
" Cauvery Completion Estimates.
" the Examiner of Public Works Accounts.
" the Revenue Department.

Exd. T. K. Narayana Aiyangar.

ENCLOSURES.
MADRAS.

STATEMENT showing the Financial Results of Irrigation Works for, and up to end of, 1897-98.
TABLE I.—Principal Results of operations for the year ended 31st March 1898.

Irrigation Works.	Mileage in operation.		Direct capital outlay during the year 1897-98 (including cost of establishment and tools and plant).	Gross receipts, direct and indirect, from all sources.	Working expenses.			Net revenue (excluding charges for interest).		Interest at 4 per cent. on direct capital outlay at commencement of year and at 2 per cent. on outlay during the year.
	Main canal.	Distributaries.			Direct.	Indirect.	Total.	Amount.	Percentage on total direct and indirect capital outlay.	
	2	3	4	5	6	7	8	9	10	11
MAJOR WORKS.										
<i>Irrigation Works.</i>										
Gódvári delta system ..	503	1,905	78,81	31,60,43	6,43,00	32,26	6,75,26	24,85,17	19.15	4,41,45
Kistna do. ..	329	1,614	3,88,99	24,74,79	7,06,79	29,73	7,36,52	17,38,27	13.18	4,86,25
Pennér ancient system ..	22	121	11	1,64,60	19,10	1,27	20,37	1,44,23	7.59	65,90
Sangam do. ..	9	295	18,40	1,87,27	39,88	6,49	46,37	1,41,90	8.68	1,25,67
Kurnool-Cuddapah canal ..	190	313	4,14	1,56,22	1,19,65	4,40	1,24,05	32,17	1.14	8,68,63
Barár tank ..	204	114	1,36,05	9,63,40	62,40	3,56	65,96	8,94,89	1.39	16,09
Cauvery delta system ..	844	1,250	8,22	1,14,49	82,85	6,11	89,00	80,19	44.86	71,82
Srivakuntam ancient system ..	28	62	8,22	1,14,49	82,85	6,11	89,00	80,19	5.44	54,66
Periyár project ..	36	80	1,62,83	1,12,87	67,88	1,69	69,57	23,30	2.27	8,28,46
Total ..	1,981½	5,651½	7,97,55	73,49,69	17,15,11	82,54	17,97,65	55,46,04	8.40	24,58,93
<i>Protective Works.</i>										
Rushikulya project ..	80	119	1,44,01	61,98	35,92	86	36,78	25,20	5.64	1,67,33
Total, Major Works ..	2,061½	5,770½	9,41,56	74,06,67	17,51,03	83,40	18,34,43	55,71,24	7.88	26,26,26
MINOR WORKS AND NAVIGATION.										
<i>Irrigation Works.</i>										
Chenbrambakam tank ..	27	127	2,82	28,68	—	4	—	28,78	3.85	25,82
Pálar ancient system ..	163	24	6,65	1,47,83	43,71	97	44,68	1,03,15	4.98	78,63
Pelandurai ancient system ..	39	24	49,51	32,92	14,62	31	14,93	1,77,99	8.26	19,30
Lower Coleroon ancient system ..	350	546	90,33	2,98,81	39,61	63	40,14	2,65,17	31.94	29,65
Madras water-supply and Irrigation extension project ..	10	149	1,08,46	28,27	2,58	21	2,79	25,48	1.45	60,63
Shatasope ancient system ..	41	16	29,39	1,08,46	18,02	34	18,36	90,10	53.33	6,00
Vridhachalam do. ..	33	16	8,72	1,43	8,72	8	8,80	12,40	24.92	1,94
Mehamattur do. ..	15	9	2,84	16,20	2,84	6	2,90	11,43	16.09	2,77
Tirukkóylar do. ..	137	26	..	38,98	15,62	36	15,98	23,00	9.04	9,92

Statement showing the Financial Results of Irrigation Works for, and up to end of, 1897-98—cont.
Table I.—Principal Results of operations for the year ended 31st March 1898—cont.

Statement showing the financial results of operations for the year ended 31st March 1898—cont.

Surplus revenue after paying interest on direct capital outlay.		Excess charge including interest on direct capital outlay.		Area of land irrigated during the year.			Gross receipts per acre irrigated, due to new works.	Working expenses (excluding interest) per acre irrigated, due to new works.	Percentage of working expenses on receipts.
Amount.	Percentage on total sum at charge.	Amount.	Percentage on total sum at charge.	Due to old irrigation works.	Due to new irrigation works.	Total.			
12	13	14	15	16	17	18	19	20	21
Irrigation Works.									
MAJOR WORKS.									
Irrigation Works.									
Gadavari delta system ..	20,43.72	(a) ..	..	184,560	644,875	799,435	.49	.10	21.37
Kistna do. ..	12,52.02	(a) ..	..	71,269	449,104	520,373	.55	.16	29.76
Pennar ancient system ..	78.33	9.04	..	42,136	28,328	70,464	.68	.08	12.37
Kurnool-Cuddapah canal ..	16.23	.26	..	56,237	20,040	76,277	.93	.23	24.23
Barur tank ..	..	..	2.39	1,847	47,008	47,008	.37	.14	79.41
Cauvery delta system ..	8,22.97	10.17	1.75	777,401	212,407	989,808	.64	.03	71.11
Srivaikuntam ancient system ..	25.53	..	..	20,465	21,903	41,668	.45	.16	29.97
Periyar project ..	..	3,05.16	8.00	61,092	28,051	89,143	.41	.32	79.36
Total ..	30,87.11	37.54	..	1,185,007	1,453,590	2,638,597	.50	.12	24.48
Protective Works.									
Bashikulya project ..	..	1,42.13	2.54	39,008	28,810	67,318	.22	.13	59.34
Total, Major Works ..	29,44.98	21.32	..	1,224,015	1,481,900	2,705,915	.50	.12	24.77
MINOR WORKS AND NAVIGATION.									
Irrigation Works.									
Chembambakam tank ..	3.46	.45	..	11,285	4,406	15,691	.65	.14	30.22
Palar ancient system ..	24.62	.86	..	67,344	30,476	97,820	.49	.18	45.26
Pelandori ancient system ..	..	..	..	2,097	8,115	10,212	.41	.06	13.46
Lower Coleroon ancient system ..	2,28.52	(a) ..	..	44,637	68,301	112,938	.44	.07	9.87
Madras water-supply and Irrigation extension project ..	..	..	1.09	6,340	4,047	10,387	.70	.07	16.93
Statimore ancient system ..	84.10	(a) ..	..	7,037	26,675	33,712	.41	.10	23.46
Vidhachalam do. ..	10.46	(a) ..	..	2,279	4,243	6,522	.38	.08	20.24
Mohamedpur do. ..	8.66	9.85	..	460	8,590	4,020	.40	.16	41.00
Tirukkoyilur do. ..	13.08	8.71	..	15,790	10,232	26,022	.38	..	..

Percentages on receipts are based on amounts shown in column 21. Amounts shown in column 21 are in thousands of rupees.

(a) Percentages on minus sums have been omitted.

Statement showing the Financial Results of Irrigation Works for, and up to end of, 1897-98—cont.

Table I.—Principal Results of operations for the year ended 31st March 1898—cont.

Irrigation Works.	Mileage in operation.		Direct capital outlay during the year 1897-98 (including cost of establishment and tools and plant).	Gross receipts, direct and indirect from all sources.	Working expenses.			Net revenue (excluding charges for interest).		Interest at 4 per cent. on direct capital outlay at commencement of year and at 2 per cent. on indirect outlay during the year.
	Main canal.	Distributaries.			Direct.	Indirect.	Total.	Amount.	Percentage on total direct and indirect capital outlay.	
			2	3						4
1										
MINOR WORKS AND NAVIGATION—cont.										
Irrigation Works—cont.										
Cumbam tank ..	..	24	63	6.65	85	1	86	5.79	9.02	2.49
Vallur ancient system ..	..	3	74	4.39	1.04	28	1.06	3.33	6.15	2.50
Maradur do. ..	..	27	1	72.18	14.62	13	14.90	57.58	128.51	1.75
Thadapali channel ..	..	76	2.48	29.62	7.64	16	7.70	21.92	17.47	4.59
Arankota do. ..	..	24	..	9.15	5.38	13	5.51	8.64	3.53	4.01
Kalingarayan channel ..	..	61	..	20.66	7.36	17	7.63	13.13	20.63	2.42
Cheyar ancient system ..	..	61	3	39.81	16.83	37	16.20	23.61	9.92	15.78
Poinery do. ..	..	104	— 9	49.13	10.47	22	10.69	38.44	16.59	9.03
Nandayar channel ..	..	24	..	3.48	4.25	9	4.34	— 86	(a)	2.14
Ganjam minor rivers system ..	..	100	12.91	34.12	26.95	66	27.61	6.51	14.64	1.48
Pondapad tank ..	..	..	5.04	..	..	2	..	— 67	..	5.66
Sagileru project ..	..	10	64.74	..	..	..	..	..	..	15.78
Munneyeru project ..	..	22	1,47.08	..	..	..	..	..	..	15.03
Chopaud project ..	..	..	33.39	..	..	..	..	..	..	2.99
Total ..	1,327½	1,196½	4,39.00	9,83.32	2,35.32	5.05	2,40.37	7,42.95	8.42	3,19.71
Navigation.										
Buckingham canal ..	262	..	12.37	99.39	80.41	3.41	83.55	15.84	.18	3,87.99
Chilka lake canal ..	8	..	..	..	30	1	31	— 81	(a)	1.21
Ganjam-Gopalpur canal ..	..	..	..	..	..	..	..	..	..	5.72
Vedarraniyam canal ..	34½	..	..	87	6.39	18	6.57	— 570	(a)	5.31
Total ..	304½	..	12.37	1,00.26	87.10	3.33	90.43	9.83	.10	2,50.23
Total, Irrigation and Navigation ..	1,632½	1,196½	4,51.37	10,83.58	3,22.42	8.38	3,30.80	7,52.78	4.16	6,69.94

(a) Percentages on minus sums have been omitted.

* This project is under construction.

Table I.—Principal Results of operations for the year ended 31st March 1898—*cont.*

(Signed) E. A. DENNIS,
Examiner, P.W. Accounts, Madras and Coorg.

16th September 1898.

MADRAS,

16th September 1898.

General Financial Results of the several undertakings to 31st March 1930.

36,19
71,28
52,19
44,69
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19,28

Statement showing the Financial Results for Irrigation works for, and up to end of, 1897-98—cont.
Table II.—General Financial results of the several undertakings to 31st March 1898—cont.

Irrigation Works.	Estimated cost of construction of all indirect charges).	Date of completion of work.	Capital outlay.				Excess of interest over net revenue in past years.	Total sum at end of 1897-98.	Interest at 4 per cent. on total sum at end of 1897-98.	Surplus for the year of net revenue over interest on total sum at charge.	Excess for the year of interest on total sum at charge over net revenue.	Capitalized value at 4 per cent. of net revenue (excluding charges for interest).	Surplus sum to credit in excess of total sum at charge.	Excess sum at charge over capitalized value of net revenue.
			Direct charges.		Indirect charges.	Total capital outlay, both direct and indirect, to end of year.								
			To end of previous year.	To end of year.										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MINOR WORKS AND NAVIGATION—cont.														
Irrigation Works—cont.														
Thadapalli channel ..	1,14,68	1854-55	1,13,64	1,16,12	9,34	1,25,46	— 3,50,21	— 2,24,75	— 8,99	30,91	.. 5,38	5,48,00	7,72,75	1,33,32
Arkenkoti do. ..	1,00,34	1859-60	1,00,34	1,00,34	2,63	1,02,97	1,21,35	2,24,32	8,97	..	..	91,00	..	..
Kalingarayan channel ..	62,07	1854-55	62,07	62,06	1,63	63,69	1,42,96	2,05,65	8,27	4,88	..	3,28,25	1,21,60	..
Cheyar anicut system ..	3,94,41	1852-53	3,94,38	3,94,41	11,04	4,05,45	12,87	4,17,82	16,71	6,90	..	5,90,25	1,72,43	..
Poincy do. ..	2,25,62	1855-56	2,25,71	2,25,62	6,07	2,31,69	— 3,90,68	— 1,58,97	6,36	44,80	.. 3,39	9,61,00	11,19,97	84,72
Nandivar channel ..	53,49	1895-96	53,49	53,49	2,23	55,71	7,51	63,22	2,53	..	..	— 21,60	..	..
Ganjum minor rivers system ..	69,10	1852-53	(a) 30,45	43,66	1,13	44,49	— 4,16,42	— 3,71,93	— 14,88	21,39	.. 7,19	— 1,62,75	5,34,68	1,79,67
Dondupad tank ..	1,32,22	..	1,38,92	1,43,86	4,96	1,48,92	14,00	1,62,92	6,62	..	.. 18,56	..	..	4,66,52
Sugileru project ..	4,31,00	..	3,67,08	4,21,82	13,98	4,38,80	27,72	4,66,52	18,66	..	.. 3,78	..	..	94,39
Chopand " ..	3,65,00	..	57,98	91,37	1,16	93,23	94,39	94,39	3,78	..	.. 18,95	..	..	4,73,82
Manniyeru project ..	3,70,49	..	3,02,30	4,49,38	11,59	4,60,97	12,85	4,73,82	18,95	..	..	..	..	..
Total ..	86,20,27	..	77,72,92	8,21,190	6,10,39	88,22,29	— 92,66,12	— 4,43,83	— 17,75	7,60,70	..	1,85,73,75	1,90,17,58	..
Navigation.														
Buckingham canal ..	84,67,65	1837-38	84,43,45	84,65,83	4,86,49	89,42,32	57,01,75	1,46,44,07	5,85,76	..	.. 5,69,92	3,96,00	..	..
Chulika Lake canal ..	80,24	..	80,24	30,24	79	81,03	30,06	61,09	2,45	..	.. 2,76	— 7,75	..	..
Ganjum-Gopalpur canal ..	1,43,10	..	1,43,10	1,43,10	12,39	1,55,49	50,38	2,05,87	8,23	..	.. 8,23	..	..	..
Vedaramuniyam canal ..	1,32,70	1874-75	1,32,70	1,32,70	3,47	1,36,17	2,16,82	3,52,99	14,12	..	.. 19,82	— 1,42,50	..	..
Total ..	87,73,69	..	87,49,49	87,61,87	5,03,14	92,65,01	59,99,01	1,52,64,02	6,10,56	..	.. 6,00,73	2,45,75	..	..
Total Irrigation and Navigation ..	1,73,93,96	..	1,65,22,41	1,69,73,77	11,13,53	1,80,87,30	— 32,67,11	1,48,20,19	6,92,81	1,59,97	..	1,88,19,50	39,99,31	..

NOTE.—“This statement includes Kurnool-Cuddapah canal purchased from the late Madras Irrigation Canal Company. The result of taking over this work in 1882-83 was to reduce the percentage of net revenue on capital cost of irrigation works in Madras for which Capital and Revenue Accounts are kept from 14-9, the average of three years immediately preceding the transfer, to 5-4.”

MADRAS,
16th September 1898.

(Signed) E. A. DENNIS,
Examining, Public Works Accounts.

STATEMENT showing the Financial Results of Irrigation Works for and up to end of 1897-98.
TABLE III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1898.

Revenue.																																		
Irrigation.				Revenue.			Working Expenses.																											
Water-rates directly paid.				Share of land revenue.		Navi-gation.		Plan-tation and land.		Water power.		Miscel-laneous.		Total.		Remission of revenue.		Revenue management.																
2				3		4		5		6		7		8		9		10		11		12		13		14		15		16				
																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.			
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																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.	
																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.	
																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.	
																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.	
																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.	
																	EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.		EX.	
																	EX.		EX.		EX.		EX.		EX.									

Statement showing the Financial Results of Irrigation Works for and up to end of 1897-98—cont.
Table III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1898—cont.

Working Expenses—cont.													
Irrigation Works.	Maintenance of works.												Grand Total, Working expenses.
	Establishment charges.				Works.	Repairs.	Tools and plant.	Plantations.	Total maintenance.	Total direct charges.	Indirect charges.		
	Direction.	Executive.	Medical.	Total.									
					17	18	19	20	21	22	23	24	
MAJOR WORKS.													
Irrigation Works.													
Gsdavari delta system	9.19	36.77	..	45.96	12.56	1,99.64	46.22	96	3,05.34	6,43.00	32.26	6,75.26	
Kistna do.	14.13	56.52	..	70.65	11.26	3,03.65	58.05	..	4,43.61	7,06.79	29.73	7,36.52	
Pennér anicut system	..	33	..	42	..	4.60	..	..	2.25	19.10	1.27	20.37	
Pungam do.	74	2.97	..	3.71	3.78	13.3	4	2	20.68	39.88	5.49	45.37	
Kurnool-Cuddapah canal	4.36	17.42	..	21.78	7.72	71.87	1.06	9	1,02.62	1,19.65	4.40	1,24.05	
Barur tank	9	38	..	47	66	1.37	..	..	2.50	3.56	14	3.70	
Cauvery delta system	..	6.12	..	7.65	14.42	37.97	5.71	4	36.87	62.40	6.11	68.51	
Sriyakkuntam anicut system	71	2.2	..	3.53	1.07	15.86	8	..	20.38	32.85	1.45	34.30	
Periyar project	1.21	4.86	..	6.07	2.64	67.00	53	..	76.24	87.88	1.69	89.57	
Total ..	28.99	1,15.95	..	1,44.94	51.35	6,39.15	1,00.10	1,11	9,36.65	17,15.11	82.54	17,97.65	
Protective Works.													
Rushikulya project	1.21	4.85	..	6.06	..	26.35	37	..	32.78	35.92	86	36.78	
Total, Major Works ..	30.20	1,20.80	..	1,51.00	51.35	6,65.50	1,00.47	1,11	9,69.43	17,51.03	83.40	18,34.43	
MINOR WORKS AND NAVIGATION.													
Irrigation Works.													
Chenbambakam tank	6	23	..	29	2.28	1.04	11	..	1.64	21	4	25	
Palar anicut system	1.35	5.39	..	6.74	8.03	21.44	..	..	36.21	43.71	97	44.68	
Pelindaba anicut system	45	1.80	..	2.25	2.83	7.88	..	..	12.96	14.62	31	14.93	
Madras Water-supply and Irrigation Extension project	..	13	..	16	3.60	4.11	1	..	34	2.58	21	2.79	
Lower Coleroon anicut	89	3.54	..	4.43	2.90	17.21	..	..	24.54	30.51	63	40.14	

Statement showing the Financial Results of Irrigation Works for, and up to end of, 1897-98—cont.
Table III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1898—cont.

Irrigation Works.	Revenue.											Working Expenses.				
	Irrigation.			Navigation.	Plan- tation and land.	Water power.	Miscel- laneous.	Total.	Remission of revenue.	Net revenue.	Revenue management.				Total, Revenue manage- ment.	
	Water- rates directly paid.	Share of land revenue.	Total.								Establishment charges					
				Direction.	Executive.	Navi- gation.	Civil officers.									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MINOR WORKS AND NAVIGATION—cont.																
Irrigation Works—cont.																
Shatinpore anicut	92.72	15.38	1,08.10	..	19	..	17	1,08.46	..	1,08.46	1	3	..	5,40	5,44	
Vridhachalam anicut	15.78	19	15.97	..	2	..	21	16.20	..	16.20	..	2	..	80	82	
Mohamattur do.	14.26	4	14.30	..	1	..	2	14.33	..	14.33	..	..	..	72	72	
Tirunkoyilur do.	35.24	3.17	38.41	..	62	..	5	38.98	..	38.98	1	5	..	1,92	1,98	
Cambam tank	6.03	62	6.65	..	..	..	..	6.65	..	6.65	..	..	..	33	33	
Vallur anicut system	3.31	1.03	4.39	..	..	..	..	4.39	..	4.39	..	..	..	22	22	
Maradur do.	71.85	24	72.09	..	4	..	35	72.48	..	72.48	1	3	..	8,60	8,64	
Thadapalli channel	26.84	2.62	29.46	..	..	..	16	29.62	..	29.62	..	2	..	1,47	1,49	
Artenkoda do.	8.77	34	9.11	..	..	..	4	9.15	..	9.15	..	..	..	46	46	
Kalingarayan channel	19.61	42	20.03	..	..	..	63	20.66	..	20.66	1	5	..	1,00	1,06	
Cheyar anicut system	36.06	8.46	39.52	..	..	..	29	39.81	..	39.81	1	2	..	1,97	2,00	
Pokey do.	43.63	6.08	48.71	..	..	..	42	49.13	..	49.13	1	3	..	2,44	2,48	
Nandiyar channel	8.37	2	8.39	..	..	..	9	8.48	..	8.48	..	1	..	17	18	
Ganjanku minor rivers system	26.99	6.90	33.89	..	9	..	14	34.12	..	34.12	1	2	..	1,69	1,72	
Dondapad tank	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Total ..	8,47.78	1,12.07	9,59.85	..	97	..	22.50	9,83.32	..	9,83.32	47	1,88	..	47.99	50.34	
Navigation.																
Buckingham canal	..	..	..	98.51	..	..	98	99.49	10	99.39	1,99	7,96	..	..	9,95	
Chikla lake canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Chikla-Gopalpur canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Vadamanayam canal	..	..	..	86	..	..	1	87	..	87	2	7	..	..	9	
Total ..	..	..	..	99.37	..	..	99	1,00.36	10	1,00.26	2,01	8,03	..	..	10,04	
Total, Irrigation and Navigation ..	8,47.78	1,12.07	9,59.85	99.37	97	..	23.49	10,83.68	10	10,83.58	2,48	9,91	..	47.99	60.38	

Statement showing the Financial Results of Irrigation Works for, and up to end of, 1897-98—cont.
Table III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1898—cont.

Irrigation Works.	Working Expenses—cont.											
	Maintenance of works.											
	Establishment charges.				Works.				Plantations.			
	Direction.	Executive.	Medical.	Total.	EX.	EX.	EX.	EX.	Tools and plant.	Repairs.	Total maintenance.	Total direct charges.
17	18	19	20	21	22	23	24	25	26	27	28	29
MINOR WORKS AND NAVIGATION—cont.												
Irrigation Works—cont.												
Shatiatope anicut ..	47	1,88	..	2,35	86	9,37	..	12,68	18,02	84	18,36	18,36
Vidhachalam anicut ..	11	43	..	54	16	2,20	..	2,90	3,73	8	3,80	3,80
Mehamattur do. ..	8	32	..	40	12	1,60	..	2,12	2,84	6	2,90	2,90
Tirukkoyilur do. ..	51	2,02	..	2,53	3,03	8,08	..	13,64	15,62	36	15,98	15,98
Gumbum tank ..	1	2	..	3	4	63	..	62	86	1	86	86
Vallur anicut system ..	3	12	..	15	20	47	..	82	1,04	2	1,06	1,06
Maradur do. ..	39	1,64	..	1,93	14	8,91	..	10,98	14,64	28	14,90	14,90
Thadapalli channel ..	22	90	..	1,12	40	4,53	..	6,05	7,54	16	7,70	7,70
Arkenkota do. ..	18	74	..	92	1,00	3,00	..	4,92	5,38	13	5,51	5,51
Kalingarayen channel ..	24	94	..	1,18	13	4,99	..	6,30	7,38	17	7,53	7,53
Cheyar anicut system ..	62	2,07	..	2,59	2,00	9,24	..	13,83	15,83	37	16,20	16,20
Poincy do. ..	30	1,19	..	1,49	2,50	4,00	..	7,99	10,47	22	10,69	10,69
Nandiyar channel ..	13	80	..	63	..	3,40	4	4,07	4,25	9	4,34	4,34
Ganjam minor rivers system ..	94	3,78	..	4,72	..	20,51	..	26,23	26,95	66	27,61	27,61
Dondapad tank ..	2	10	..	12	..	53	..	65	65	2	67	67
Total ..	6,75	26,89	..	33,64	18,88	1,33,04	8	1,84,98	2,35,32	5,05	2,40,37	2,40,37
Navigation.												
Buckingham canal ..	2,50	10,02	..	12,52	59	54,16	8	70,46	80,41	8,14	88,55	88,55
Chilka lake do. ..	1	6	..	7	..	23	..	30	30	1	31	31
Ganjam-Gopalpur canal ..	..	..	..	..	..	..	..	..	..	..	..	..
Vedaramanyam canal ..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	2,74	11,92	..	13,76	69	69,50	8	77,06	87,10	3,33	90,43	90,43
Total, Irrigation and Navigation ..	9,49	37,91	..	47,40	18,97	1,92,54	8	2,62,04	3,22,42	8,38	3,30,80	3,30,80

(Signed) E. A. DENNY,
Examiner, Public Works Accounts.

MADRAS,
16th September 1898.

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