Public Works (~~189~~) Department.

G.O., No. 1101 / 1102 } 9

DATED 27th Dec 1899 ~~Jan~~ ~~[illegible]~~

27/12 (0 written above 27)

30 copies of Endt

35 copies with the docket at the back for the S. of S. quoting ~~at~~ the telegram instead of printing — other papers quoted to be printed (for S. of S. copies)

[Despatch Abstract.]

Statements of financial results of Irrigation and Navigation Works.

Ordered that a telegram be sent to the S. of S. stating that manuscript copies of the — for 1898-99 were despatched ~~to that Govt~~ on the 27th Dec 1899, and that a copy of the Pro be forwarded

Statements of financial results of Irrigation and Navigation works.

Forwarding copy of Pro stating that manuscript copies of the — were ~~forwarded~~ despatched on the 27th Dec 1899

P. W. 15.
[161—26-9-99.]

Iv, 11/1/00

BACK PAPERS.

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

FURTHER PAPERS.

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

IRRIGATION.
ACCOUNT.

Government (1899) of Madras.

PUBLIC WORKS.

Recd. } 1899.
Regd. }

Enclosures
Spare copies

G.O., Nos. 1101, 1102 I., 27th December 1899.

DECEMBER.

Statements of Financial Results of Irrigation and Navigation Works

Forwarding copy of proceedings stating that manuscript copies of the — were despatched on the 27th December 1899.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

Office-note from the Examiner, Public Works Accounts, dated Madras, 20th November 1899, No. 3812 B./B.

Herewith the statements showing the Financial results of Irrigation and Navigation works during 1898–99 for submission to the Government of India.

2. The necessary entries for the Kurnool canal and Periyár project under columns 12 and 20 for Table I have not been made, as no information regarding the acres irrigated is available in this office.

Office-note to the Examiner, Public Works Accounts, dated Madras, 7th December 1899, No. 397.

The statements are returned herewith for revision and completion with reference to telegram from the Government of India communicated with G.O., No. 1020 I./A.L., dated 1st December 1899, directing the preparation of revised accounts for 1898–99 and the Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), No. 394, dated 29th November 1899, furnishing particulars of Irrigation revenue under the Periyár project for the above year.

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

Telegram from the Secretary to the Government of India, Public Works Department, to the Joint Secretary to the Government of Madras, Public Works Department, Irrigation Branch, dated Calcutta, 15th December 1899, No. 44 A.I.

Telegram from the Secretary to the Government of India, Public Works Department, dated Calcutta, 15th December 1899, No. 44 A.I.

Please expedite submission of financial results of Irrigation operations, Tables I, II and III, for the past financial year. Wire probable date of despatch.

Office-note from the Examiner, Public Works Accounts, dated Madras, 16th December 1899, No. 4132 B./B.

[Your office-note No. 397 of the 7th instant.]

The statements received with the above are, herewith, returned corrected and completed, including the revised figures of irrigation revenue of the Periyár project for the year 1898–99 only.

No. 255.

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 1898–99 for submission to the Government of India. He states, in his office-note No. 4123 B./B., dated 15th instant, that the revised figures of Irrigation revenue relating to the Periyár project for the previous two years, as furnished by the Board of Revenue, have not been included in his accounts for 1898–99 under instructions from the Accountant-General, Public Works Department. The revised figures, when taken into account, will show better results under the project.

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

23rd December 1899.

Order—No. 1101 I., dated 27th December 1899.

The following deferred telegram will be sent:—

To the Joint Secretary to the Govt. of India, P.W. Dept., Irrigation Branch.

Your wire 44 A.I., 15th instant. Manuscript copies of statements and proceedings despatched this day.

2. Ordered that a copy of these proceedings be forwarded to the Government of India with reference to its Circular No. 23 of 1881.

[Here enter No. 1102 I., dated 27th December 1899.]

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineers of Circles.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.

Endorsement—No. 1102 I., dated 27th December 1899.

Forwarded.

(By order.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

Exd. T. K. Narayana Aiyangar.

ENCLOSURES.

MADRAS.

STATEMENT showing the Financial Results of Irrigation works for, and up to end of, 1898–99.

Table I.—Principal Results of operations for the year ended 31st March 1899.

Irrigation works.	Mileage in operation.		Direct capital outlay during the year 1898-99 (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.	
1	2	3	4	5	6	7	8	9	10	11
MAJOR WORKS.	MILES.	MILES.	RX.	RX.	RX.	RX.	RX.	RX.		RX.
PRODUCTIVE PUBLIC WORKS.										
Irrigation Works.										
Gódávari delta system	503	1,905	84,57	31,78,43	7,33,65	37,58	7,71,23	24,07,20	18·42	4,44,72
Kistna do.	372	1,625	1,57,67	27,00,90	6,55,87	30,85	6,86,72	20,14,18	15·03	4,97,18
Cauvery do.	844	1,250	1,14,79	9,66,41	81,94	6,67	88,61	8,77,80	41·56	76,93
Penner anicut system	22	121	..	1,73,27	15,26	1,61	16,87	1,56,40	8·23	65,90
Srívaikuntam anicut system	28	62	4,78	1,12,50	29,25	1,35	30,60	81,90	5·54	54,93
Sangam anicut system	9	295	21,91	1,98,71	39,36	2,97	42,33	1,56,38	4·03	1,26,48
Kurnool-Cuddapah canal	190	313	6,58	1,62,31	1,14,05	3,87	1,17,92	44,39	·20	8,68,74
Barur tank project	20½	11¼	..	10,10	2,47	12	2,59	7,51	1·77	16,09
Periyar project	36	126	1,40,09	2,77,28	1,29,97	3,58	1,33,55	1,43,73	1·66	3,34,52
Total ..	2,024½	5,708¼	5,30,39	77,79,91	18,01,82	88,60	18,90,42	58,89,49	8·83	24,85,49
Protective Works.										
Rushikulya project	80	120	53,35	87,82	43,05	1,02	44,07	43,75	·93	1,71,28
Total, Major Works ..	2,104½	5,828¼	5,83,74	78,67,73	18,44,87	89,62	19,34,49	59,33,24	8·31	26,56,77
MINOR WORKS AND NAVIGATION.										
Irrigation Works.										
Chembrambakam tank	27	..	17	31,06	1	— 4	— 3	31,09	4·16	25,38
Pálár anicut	163	127	3,79	1,68,29	44,28	96	45,24	1,23,05	5·92	78,74
Pelandorai anicut	39	24	32,76	33,32	13,77	33	14,10	19,22	3·28	20,94
Madras Water-supply and Irrigation Extension project ..	10	..	..	28,72	7,22	38	7,60	21,12	1·20	60,63
Lower Coleroon anicut	350	546	1,25,01	2,95,00	38,39	58	38,97	2,56,03	27·26	33,97
Shatiatope anicut	41	149	58,23	1,07,66	14,31	24	14,55	93,11	40·73	7,75
Vriddhachalam anicut	33	16	..	18,66	5,86	13	5,99	12,67	25·46	1,94
Mehamattur anicut	15	9	..	11,97	9,25	23	9,48	2,49	5·50	2,77
Tirukkóyilúr anicut	137	26	..	37,47	21,13	51	21,64	15,83	6·22	9,92
Cumbum tank	..	24	19	12,65	1,43	2	1,45	11,20	17·39	2,51

Statement showing the Financial Results of Irrigation works for, and up to end of, 1898-99—*cont.*

Table I.—Principal Results of operations for the year ended 31st *March* 1899—cont.

Irrigation works.	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
MAJOR WORKS.	RX.		RX.		ACS.	ACS.	ACS.			
PRODUCTIVE PUBLIC WORKS.										
Irrigation Works.										
Gódávari delta system	19,62,48	(*a*)	..	..	155,680	620,813	776,493	·51	·12	24·26
Kistna do.	15,17,00	(*a*)	..	..	70,250	496,027	566,277	·55	·14	25·43
Cauvery do.	8,00,87	(*a*)	..	..	777,945	216,173	994,118	·45	·04	9·17
Penner anicut system	90,50	11·48	..	..	42,804	29,388	72,192	·59	·06	9·74
Srívaikuntam anicut system	26,97	1·89	..	..	20,791	21,949	42,740	·51	·14	27·20
Sangam anicut system	29,90	·67	..	..	56,409	21,852	78,261	·91	·20	21·30
Kurnool-Cuddapah canal	..	..	8,24,35	2·30	..	48,810	48,810	·34	·24	72·65
Barur tank project	..	..	8,58	1·45	1,825	3,076	4,901	·33	·08	25·64
Periyár project	..	..	1,90,79	1·79	74,467	34,558	109,025	·80	·39	48·16
Total	34,04,00	59·37	..	..	1,200,171	1,492,646	2,692,817	·52	·13	24·30
Protective Works.										
Rushikulya project	..	..	1,27,53	2·20	47,399	35,566	82,965	·25	·12	50·18
Total, Major Works	32,76,47	28·43	..	..	1,247,570	1,528,212	2,775,782	·51	·13	24·59
MINOR WORKS AND NAVIGATION.										
Irrigation Works.										
Chembrambakam tank	5,71	·76	..	..	12,709	3,023	15,732	1·03	..	..
Pálár anicut	44,31	1·56	..	..	68,921	37,811	106,732	·45	·12	26·88
Pelandorai anicut	..	..	1,72	·15	2,152	7,756	9,908	·43	·18	42·32
Madras Water-supply and Irrigation Extension project	..	..	39,51	1·12	6,314	3,507	9,821	·82	·22	26·46
Lower Coleroon anicut	2,22,06	(*a*)	..	..	44,551	68,322	112,873	·43	·06	13·21
Shatiatope anicut	85,36	(*a*)	..	..	6,902	27,049	33,951	·39	·05	13·51
Vriddhachalam anicut	10,73	(*a*)	..	..	2,389	4,905	7,294	·38	·12	32·10
Mehamattur anicut	..	..	28	·35	984	2,938	3,922	·41	·32	79·20
Tirukkóyilúr anicut	5,91	4·31	..	..	15,975	9,791	25,766	·38	·22	57·75
Cumbum tank	8,69	(*a*)	..	..	7,583	3,143	10,726	·46	·05	11·46

Statement showing the Financial Results of Irrigation works for, and up to end of, 1898-99—*cont.*

Table I.—Principal Results of operations for the year ended 31st *March* 1899—cont.

Irrigation works.	Mileage in operation.		Direct capital outlay during the year 1898-99 (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.	
1	2	3	4	5	6	7	8	9	10	11
MINOR WORKS AND NAVIGATION—*cont.*	MILES.	MILES.	RX.	RX.	RX.	RX.	RX.	RX.		RX.
Irrigation Works—cont.										
Vallur anicut	3	8	95	4,63	1,08	2	1,10	3,53	5·39	2,54
Marudur anicut	27	45	..	72,25	20,60	43	21,03	51,22	114·32	1,75
Thadapally channel	76	..	18	30,75	10,50	22	10,72	20,03	15·94	4,65
Arkenkotta channel	24	..	..	8,96	4,95	11	5,06	3,90	3 78	4,01
Kalingarayen channel	61	..	15,89	21,56	11,09	30	11,39	10,17	12·72	2,80
Cheyar anicut	61	120	..	51,50	20,19	47	20,66	30,84	7·60	15,78
Poiney anicut	104	78	..	55,16	8,80	16	8,96	46,20	19·95	9,02
Dondapad tank	..	3⅝	30	45	22	1	23	22	0 15	5,76
Sagileru project	10	2	8,53	7,28	2,28	4	2,32	4,96	1·11	17,04
Munniyar project	60¾	6½	50,26	8,44	5,40	13	5,53	2,91	0·56	23,73
Nandyar channel extension	24	..	..	2,98	3,69	7	3,76	— 78	(*b*)	2,14
Ganjám minor river system	100	..	38,43	33,18	25,27	62	25,89	7,29	8·69	2,50
Chepad project	..	..	1,53	..	..	..	..	..	..	3,68
Total	1,365¾	1,184⅛	3,37,02	10,41,94	2,69,72	5,92	2,75,64	7,66,30	8·35	3,39,95
Navigation.										
Buckingham canal	262	..	16,68	1,04,16	1,08,93	3,96	1,12,89	— **8,73**	(*b*)	3,38,57
Chilka Lake canal	8	..	..	1	60	2	62	— **61**	(*b*)	1,21
Ganjam-Gopalpur canal	..	..	..	12	1	..	1	11	·07	5,72
Védáranniyam canal	34½	..	..	1,22	4,23	11	4,34	— **3,12**	(*b*)	5,31
Total	304½	..	16,68	1,05,51	1,13,77	4,09	1,17,86	— **12,35**	(*b*)	3,50,81
Total, Minor Works and Navigation	1,670¼	1,184⅛	3,53,70	11,47,45	3,83,49	10,01	3,93,50	7,53,95	4·08	6,90,76

Statement showing the Financial Results of Irrigation Works for, and up to end of, 1898–99—*cont.*

Table I.—Principal Results of operations for the year ended 31st March 1899—cont.

Irrigation works.	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
MINOR WORKS AND NAVIGATION—*cont.*	RX.		RX.		ACS.	ACS.	ACS.			
Irrigation Works—cont.										
Vallur anicut	99	·96	..	..	3,986	1,432	5,418	·32	·08	23·76
Maradur anicut	49,47	(*a*)	..	..	17,427	17,677	35,104	·41	·12	29·11
Thadapalli channel	15,38	(*a*)	..	..	10,170	4,814	14,984	·64	·22	34·86
Arkenkotta channel	..	..	11	·05	2,659	1,536	4,195	·58	·33	56·47
Kalingarayen channel	737	3·47	..	..	16,462	5,039	21,501	·43	·23	52·83
Cheyar anicut	15,06	3·67	..	..	17,796	19,645	37,441	·26	·11	40·12
Poiney anicut	37,18	(*a*)	..	..	18,036	12,191	30,227	·45	·07	16·24
Dondapad tank	..	..	554	3·27	..	109	104	·41	·21	51·11
Sagileru project	..	..	12,08	2·46	4,834	2,131	6,965	·34	·11	31·87
Munnuyar project	..	..	20,82	3·79	777	2,146	2,923	·39	·26	65·52
Nandyar channel extension	..	..	292	4·41	5,971	1,227	7,198	·24	·31	1,26·17
Ganjám minor river system	479	(*a*)	..	..	48,889	11,918	60,807	·28	·22	78·03
Chepad project	..	..	368	3·72	..	..	..	..	..	..
Total ..	4,26,35	(*a*)	..	..	315,487	248,110	563,597	·42	·11	26·45
Navigation.										
Buckingam canal	..	..	3,47,30	2·32	..	..	..	..	..	1,08·38
Chilka Lake canal	..	..	182	2·91	..	..	..	..	..	62,00·00
Ganjám-Gopalpur canal	..	..	561	2·65	..	..	..	..	..	8·33
Védáranniyam canal	..	..	843	2·32	..	..	..	..	..	3,55·74
Total ..	..	..	3,63,16	2·32	..	..	..	..	..	1,11·71
Total, Minor Works and Navigation ..	63,19	·42	..	..	315,487	248,110	563,597	·46	·16	34·29

(*a*) No percentages have been shown as the total sums at charge are *minus* figures.
(*b*) No percentages have been shown as the amounts of net revenue are *minus* figures.

STATEMENT showing the Financial Results of Irrigation Works for, and up to the end of, 1898–99.

TABLE II.—General Financial Results of the several undertakings to the 31st March 1899.

Irrigation works.	Estimated cost of construction (exclusive of all indirect charges).	Date of completion of work.	Capital outlay.				Excess of interest over net revenue in past years.	Total *sum* at charge at end of 1898–99.	Interest at 4 per cent. on total *sum* at charge at end of 1898–99.	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.	To end of year.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MAJOR WORKS.	RX.		RX.	RX.	RX	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.
Productive Public Works.														
Irrigation Works														
Gódávari delta system ..	1,13,46,84	1846–47	1,10,75,80	1,11,60,37	19,05,14	1,30,65,51	— 3,51,36,29	— 2,20,70,78	— 8,82,83	32,90,03	..	6,01,80,00	8,22,50,78	..
Kistna do. ..	1,25,08,36	1855–56	1,23,50,69	1,25,08,36	8,88,27	1,33,96,63	— 1,86,94,51	— 52,97,88	— 2,11,92	22,26,10	..	5,03,54,50	5,56,52,38	..
Cauvery do. ..	26,37,85	1836–37	18,65,96	19,80,75	1,31,59	21,12,34	— 2,27,37,45	— 2,06,25,11	— 8,25,00	17,02,80	..	2,19,45,00	4,25,70,11	..
Pennér anicut system ..	16,47,58	1860–61	16,47,58	16,47,58	2,51,61	18,99,19	— 11,10,91	7,88,28	31,53	1,24,87	..	39,10,00	31,21,72	..
Srívaikuntam anicut system ..	13,83,33	1870–71	13,70,74	13,75,52	1,01,91	14,77,43	— 50,73	14,26,70	57,07	24,83	..	20,47,50	6,20,80	..
Sangam anicut system ..	33,63,24	1884–85	31,50,94	31,72,85	7,05,76	38,78,61	5,91,89	44,70,50	1,78,82	..	22,44	39,09,50	..	5,61,00
Kurnool-Cuddapah canal ..	2,17,21,60	1882–83	2,17,15,27	2,17,21,85	2,64	2,17,24,49	1,41,24,68	3,58,49,17	14,33,97	..	13,89,58	11,09,75	..	3,47,39,42
Barur tank project ..	4,04,88	1887–88	4,02,18	4,02,18	22,87	4,25,05	1,65,74	5,90,79	23,63	..	16,12	1,87,75	..	4,03,04
Periyár project	84,32,94	1896–97	82,92,85	84,32,94	2,48,66	86,81,60	19,20,18	1,06,01,78	4,24,07	..	2,80,34	35,93,25	..	70,08,53
Total ..	6,34,46,62	..	6,18,72,01	6,24,02,40	42,58,45	6,66,60,85	— 6,09,27,40	57,33,45	2,29,34	56,60,15	..	14,72,37,25	14,15,03,80	..
Protective Works.														
Rushikulya project	45,53,00	1891–92	42,55,22	43,08,57	3,90,66	46,99,23	10,90,68	57,89,91	2,31,59	..	1,87,84	10,93,75	..	46,96,16
Total, Major Works ..	6,79,99,62	..	6,61,27,23	6,67,10,97	46,49,11	7,13,60,08	— 5,98,36,72	1,15,23,36	4,60,93	54,72,31	..	14,83,31,00	13,68,07,64	..
MINOR WORKS AND NAVIGATION.														
Irrigation Works.														
Chembrambakam tank ..	6,34,67	1870–71	6,34,50	6,34,67	1,12,43	7,47,10	5,31	7,52,41	30,10	99	..	7,77,25	24,84	..
Pálár anicut	19,80,66	1853–54	19,66,62	19,70,41	1,07,69	20,78,10	7,53,45	28,31,55	1,13,26	9,79	..	30,76,25	2,44,70	..
Pelandorai anicut	5,42,35	1875–76	5,07,22	5,39,98	45,66	5,85,64	5,51,97	11,37,61	45,50	..	26,28	4,80,50	..	6,57,11
Madras water-supply and irrigation extension project ..	15,15,83	1870–71	15,15,83	15,15,83	2,38,22	17,54,05	17,62,79	35,16,84	1,40,67	..	1,19,55	5,28,00	..	29,88,84
Lower Coleroon anicut ..	13,55,09	1848–49	7,86,33	9,12,14	27,20	9,39,34	— 83,80,02	— 74,40,68	— 2,97,63	5,53,66	..	64,00,75	1,38,41,43	..
Shatiatope anicut	2,24,38	1847–48	1,64,66	2,22,89	5,69	2,28,58	— 19,68,77	— 17,40,19	— 69,61	1,62,72	..	23,27,75	40,67,94	..
Vriddháchalam anicut ..	48,47	1868–69	48,47	48,47	1,27	49,74	— 1,40,58	— 90,84	— 3,63	16,30	..	3,16,75	4,07,59	..
Mehamattur anicut	69,23	1872–73	69,24	69,24	1,81	71,05	8,17	79,22	3,17	..	68	62,25	..	16,97
Tirukkóyilúr anicut ..	2,47,95	1861–62	2,47,95	2,47,95	6,52	2,54,47	— 1,17,44	1,37,03	5,48	10,35	..	3,95,75	2,58,72	..
Cumbum tank	61,31	1876–77	62,56	62,75	1,68	64,43	— 71 98	— 7,55	— 30	11,50	..	2,80,00	2,87,55	..

Statement showing the Financial Results of Irrigation Works for, and up to the end of, 1898–99—*cont.*

Table II.—General Financial results of the several undertakings to the 31st March 1899—*cont.*

Irrigation works.	Estimated cost of construction (exclusive of all indirect charges).	Date of completion of work.	Capital outlay.				Excess of interest over net revenue in past years.	Total *sum* at charge at end of 1898–99.	Interest at 4 per cent. on total *sum* at charge at end of 1898–99.	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.	To end of year.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MINOR WORKS AND NAVIGATION—*cont.*	RX.		RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.
Irrigation Works—cont.														
Vallur anicut	71,58	1872–73	62,92	63,87	1,67	65,54	37,13	1,02,67	4,11	..	58	88,25	..	14,42
Maradur anicut	43,66	1872–73	43,66	43,66	1,14	44,80	— **12,85,20**	— **12,40,40**	— **49,62**	1,00,84	..	12,80,50	25,20,90	..
Thadapalli channel	1,14,72	1854–55	1,16,12	1,16,30	9,35	1,25,65	— **3,67,54**	— **2,41,89**	— **9,67**	29,70	..	5,00,75	7,42,64	..
Arkenkotta do.	1,00,34	1859–60	1,00,34	1,00,34	2,62	1,02,96	1,21,73	2,24,69	8,99	..	5,09	97,50	..	1,27,19
Kalingaroyan channel ..	85,63	1854–55	62,06	77,95	2,04	79,99	1,32,24	2,12,23	8,49	1,68	..	2,54,25	42,02	..
Cheyar anicut	3,94,41	1852–53	3,94,41	3,94,41	11,04	4,05,45	4,54	4,09,99	16,40	14,44	..	7,71,00	3,61,01	..
Poiney do.	2,30,03	1855–56	2,25,63	2,25,63	6,07	2,31,70	— **4,20,07**	— **1,88,37**	— **7,53**	53,73	..	11,55,00	13,43,37	..
Dondapad tank	1,32,22	1898–99	1,43,96	1,44,26	4,97	1,49,23	20,33	1,69,56	6,78	..	6,56	5,50	..	1,64,06
Sagileru project	4,31,00	1898–99	4,21,82	4,30,35	17,18	4,47,53	43,50	4,91,03	19,64	..	14,68	1,24,00	..	3,67,03
Munnyeru project ..	6,14,00	1898–99	4,49,37	4,99,63	21,31	5,20,94	27,88	5,48,82	21,95	..	19,04	72,75	..	4,76,07
Nandyar channel extension ..	53,49	1895–96	53,49	53,49	2,22	55,71	10,50	66,21	2,65	..	3,43	— **19,50**	..	85,71
Ganjám minor river system ..	1,17,55	1852–53	43,36	81,79	2,13	83,92	— **4,15,46**	— **3,31,54**	— **13,26**	20,55	..	1,82,25	5,13,79	..
Chopaud project	3,65,00	..	91,37	92,90	1,89	94,79	4,15	98,94	3,96	..	3,96		..	98,94
Total ..	94,33,57	..	82,11,89	85,48,91	6,31,80	91,80,71	— **96,83,37**	— **5,02,66**	— 20,10	7,86,40	..	1,91,57,50	1,96,60,16	..
Navigation.														
Buckingham canal . ..	84,97,91	1837–38	84,55,83	84,72,51	4,86,96	89,59,47	60,23,90	1,49,83,37	5,99,33	..	6,08,06	— **2,18,25**	..	1,52,01,62
Chilka Lake canal	30,24	..	30,24	30,24	79	31,03	31,58	62,61	2,50	..	3,11	— **15,25**	..	77,86
Ganjám-Gopalpur canal ..	1,43,10	..	1,43,10	1,43,10	12,39	1,55,49	56,11	2,11,60	8,47	..	8,36	2,75	..	2,08,85
Védáranniyam canal ..	1,32,70	1874–75	1,32,70	1,32,70	3,47	1,36,17	2,27,83	3,64,00	14,56	..	17,68	— **78,00**	..	4,42,00
Total ..	88,03,95	..	87,61,87	87,78,55	5,03,61	92,82,16	63,39,42	1,56,21,58	6,24,86	..	6,37,21	— **3,08,75**	..	1,59,30,33
Total, Minor Works and Navigation ..	1,82,37,52	..	1,69,73,76	1,73,27,46	11,35,41	1,84,62,87	— **33,43,95**	1,51,18,92	6,04,76	1,49,19	..	1,88,48,75	37,29,83	..

STATEMENT showing the Financial Results of Irrigation Works for, and up to the end of, 1898–99.

TABLE III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1899.

Irrigation works.	Revenue.										Working Expenses,				
											Revenue management.				
	Irrigation.			Navigation.	Plantations and land.	Water power.	Miscellaneous.	Total.	Remission of revenue.	Net revenue.	Establishment charges.				Total, Revenue management.
	Water rates directly paid.	Share of land revenue.	Total.								Direction.	Executive.	Navigation.	Civil officers.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MAJOR WORKS.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.
Productive Public Works.															
Irrigation Works.															
Gódávari delta system	29,19,77	1,49,43	30,69,20	89,66	4,27	..	15,66	31,78,79	36	31,78,43	37,23	1,48,91	..	1,53,46	3,39,60
Kistna do.	24,59,95	1,63,01	26,22,96	50,86	12,19	..	15,32	27,01,33	43	27,00,90	31,08	1,24,35	..	1,31,15	2,86,58
Cauvery do.	8,50,74	1,14,04	9,64,78	..	83	..	91	9,66,52	11	9,66,41	10,24	40,98	..	48,24	99,46
Pennér anicut system	1,51,34	21,12	1,72,46	..	..	..	81	1,73,27	..	1,73,27	1,83	7,33	..	8,62	17,78
Srívaikuntam anicut system ..	1,09,62	1,79	1,11,41	..	..	..	1,09	1,12,50	..	1,12,50	1,34	5,35	..	5,57	12,26
Sangam anicut system	1,74,10	23,12	1,97,22	..	..	..	1,49	1,98,71	..	1,98,71	2,12	8,48	..	9,86	20,46
Kurnool-Cuddapah canal	1,55,66	..	1,55,66	1,27	51	..	4,89	1,62,33	2	1,62,31	2,00	8,01	..	7,78	17,79
Barur tank project	9,89	3	9,92	..	..	..	18	10,10	..	10,10	12	49	..	50	1,11
Periyár project	2,57,44	19,26	2,76,70	44	1	..	13	2,77,28	..	2,77,28	3,10	12,40	..	13,84	29,34
Total ..	70,88,51	4,91,80	75,80,31	1,42,23	17,81	..	40,48	77,80,83	92	77,79,91	89,06	3,56,30	..	3,79,02	8,24,38
Protective Works.															
Rushikulya project	86,14	21	86,35	..	8	..	1,39	87,82	..	87,82	3	12	..	4,32	4,47
Total, Major Works ..	71,74,65	4,92,01	76,66,66	1,42,23	17,89	..	41,87	78,68,65	92	78,67,73	89,09	3,56,42	..	3,83,34	,28,85
MINOR WORKS AND NAVIGATION.															
Irrigation Works.															
Chembrambakam tank	30,35	66	31,01	..	..	..	5	31,06	..	31,06	..	..	..	1,55	1,55
Pálár anicut	1,50,90	16,54	1,67,44	..	..	..	1,08	1,68,52	23	1,68,29	2	9	..	8,37	8,48
Pelandorai anicut	32,27	6	32,33	..		2	97	33,32	..	33,32	2	8	..	1,62	1,72
Madras water-supply and irrigation extension project	10,04	51	10,55	..	..		18,17	28,72	..	28,72	36	1,46	..	53	2,35
Lower Coleroon anicut	2,40,49	52,91	2,93,40	..		6	1,54	2,95,00	..	2,95,00	3	13	..	14,67	14,83
Shatiatope anicut	91,83	15,33	1,07,16	..		9	41	1,07,66	..	1,07,66	1	4	..	5,36	5,41

Statement showing the Financial Results of Irrigation Works for, and up to the end of, 1898-99—*cont.*

Table III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1899—*cont.*

Irrigation works.	Working Expenses—*cont.*											
	Maintenance of works.									Total direct charges.	Indirect charges.	Grand Total, Working expenses.
	Establishment charges.				Works.	Repairs.	Tools and plant.	Plantations.	Total maintenance.			
	Direction.	Executive.	Medical.	Total.								
	17	18	19	20	21	22	23	24	25	26	27	28
MAJOR WORKS.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.
Productive Public Works.												
Irrigation Works.												
Gódávari delta system	12,32	49,27	..	61,59	24,11	2,50,21	57,19	95	3,94,05	7,33,65	37,58	7,71,23
Kistna do.	11,57	46,30	..	57,87	14,70	2,43,78	50,13	2,81	3,69,29	6,55,87	30,85	6,86,72
Cauvery do.	— 98	— 3,91	..	— 4,89	17,79	— 29,18	— 1,31	7	— 17,52	81,94	6,67	88,61
Pennér anicut system	— 13	— 52	..	— 65	— 2,02	— 68	83	..	— 2,52	15,26	1,61	16,87
Srivaikuntam anicut system ..	60	2,38	..	2,98	51	13,58	— 8	..	16,99	29,25	1,35	30,60
Sangam do.	67	2,69	..	3,36	1,88	13,68	— 2	..	18,90	39,36	2,97	42,33
Kurnool-Cuddapah canal	3,52	14,10	..	17,62	9,48	67,52	1,55	9	96,26	1,14,05	3,87	1,17,92
Barur tank project	5	20	..	25	..	1,09	2	..	1,36	2,47	12	2,59
Periyár project	2,01	8,06	..	10,07	4,54	85,45	51	6	1,00,63	1,29,97	3,58	1,33,55
Total ..	29,63	1,18,57	..	1,48,20	70,99	6,45,45	1,08,82	3,98	9,77,44	18,01,82	88,60	18,90,42
Protective Works.												
Rushikulya project	1,42	5,68	..	7,10	18	30,73	57	..	38,58	43,05	1,02	44,07
Total, Major Works ..	31,05	1,24,25	..	1,55,30	71,17	6,76,18	1,09,39	3,98	10,16,02	18,44,87	89,62	19,34,49
MINOR WORKS AND NAVIGATION.												
Irrigation Works.												
Chembrambakam tank	— 5	— 22	..	— 27	— 2,28	1,12	— 11	..	— 1,54	1	— 4	— 3
Pálár anicut	1,33	5,34	..	6,67	7,77	21,35	1	..	35,80	44,28	96	45,24
Pelandorai anicut	45	1,79	..	2,24	2,32	7,49	..	..	12,05	13,77	33	14,10
Madras water-supply and irrigation extension project	18	73	..	91	— 3,60	7,57	— 1	..	4,87	7,22	38	7,60
Lower Coleroon anicut	79	3,15	..	3,94	3,75	15,80	7	..	23,56	38,39	58	38,97
Shatiatope anicut	33	1,33	..	1,66	60	6,64	..	..	8,90	14,31	24	14,55

Statement showing the Financial Results of Irrigation Works for, and up to the end of, 1898-99—*cont.*

Table III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1899—*cont.*

Irrigation works.	Revenue.										Working Expenses.				
	Irrigation.			Naviga-tion.	Planta-tions and land.	Water power.	Miscel-laneous.	Total.	Remission of revenue.	Net revenue.	Revenue management.				
											Establishment charges.				Total, Revenue manage-ment.
	Water-rates directly paid.	Share of land revenue.	Total.								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.*	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.
Irrigation Works—cont.															
Vriddhachalam anicut	18,11	25	18,36	..	4	..	26	18,66	..	18,66	1	2	..	92	95
Mehamattur anicut	11,91	2	11,93	..	4	..	..	11,97	..	11,97	..	..	..	60	60
Tirukkóyilúr anicut	33,65	3,17	36,82	..	39	..	26	37,47	..	37,47	1	5	..	1,84	1,90
Cumbam tank	12,11	54	12,65	..	..	..	..	1,265	..	12,65	..	..	..	63	63
Vallur anicut	3,51	1,10	4,61	..	..	..	2	4,63	..	4,63	..	..	..	23	23
Maradur anicut	71,86	26	72,12	..	..	..	13	72,25	..	72,25	..	1	..	3,61	3,62
Thadapalli channel	27,58	2,63	30,21	..	..	..	54	30,75	..	30,75	1	4	..	1,51	1,56
Arkenkota do.	8,58	33	8,91	..	..	..	5	8,96	..	8,96	..	..	..	45	45
Kalingaroyan channel	20,47	56	21,03	..	..	..	53	21,56	..	21,56	1	4	..	1,05	1,10
Cheyar anicut	47,61	3,52	51,13	..	..	..	37	51,50	..	51,50	1	3	..	2,55	2,59
Poiney do.	49,95	5,08	55,03	..	..	..	13	55,16	..	55,16	..	1	..	2,75	2,76
Dondapad tank	35	..	35	..	..	..	10	45	..	45	..	1	..	2	3
Sagileru project	7,27	1	7,28	..	..	..	..	7,28	..	7,28	..	..	..	36	36
Munnyeru project	8,42	2	8,44	..	..	..	..	8,44	..	8,44	..	..	..	42	42
Nandyar channel extension ..	2,91	1	2,92	..	..	..	6	2,98	..	2,98	..	1	..	14	15
Ganjám minor river system ..	25,85	6,90	32,75	..	16	..	27	33,18	..	33,18	1	3	..	1,64	1,68
Total ..	9,06,02	1,10,41	10,16,43	..	80	..	24,94	10,42,17	23	10,41,94	50	2,05	..	50,82	53,37
Navigation.															
Buckingham canal	..	..	..	1,03,19	..	..	1,13	1,04,32	16	1,04,16	2,09	8,34	..	..	10,43
Chilka Lake canal	..	..	..	..	1	..	..	1	..	1	..	..	..	..	..
Ganjám-Gopalpur canal	..	..	..	..	1	..	11	12	..	12	..	1	..	..	1
Védáranniyam canal	..	..	..	1,21	..	..	1	1,22	..	1,22	2	10	..	..	12
Total ..	..	..	..	1,04,40	2	..	1,25	1,05,67	16	1,05,51	2,11	8,45	..	..	10,56
Total, Minor Works and Navigation ..	9,06,02	1,10,41	10,16,43	1,04,40	82	..	26,19	11,47,84	39	11,47,45	2,61	10,50	..	50,82	63,93

Statement showing the Financial Results of Irrigation Works for, and up to the end of, 1898-99—*cont.*

Table III.—Main heads of Revenue and Working Expenses for the year ended 31st March 1899—*cont.*

Irrigation works.	Working Expenses—*cont.*											
	Maintenance of works.									Total direct charges.	Indirect charges.	Grand Total, Working expenses.
	Establishment charges.				Works.	Repairs.	Tools and plant.	Plantations.	Total maintenance.			
	Direction.	Executive.	Medical.	Total.								
	17	18	19	20	21	22	23	24	25	26	27	28
MINOR WORKS AND NAVIGATION—*cont.*	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.	RX.
Irrigation Works—cont.												
Vriddhachalam anicut	19	73	..	92	1,03	2,96	..	..	4,91	5,86	13	5,99
Mehamattur anicut	32	1,30	..	1,62	59	6,44	..	..	8,65	9,25	23	9,48
Tirukkóyilúr anicut	72	2,88	..	3,60	5,78	9,85	..	..	19,23	21,13	51	21,64
Cumbam tank	3	12	..	15	..	65	..	..	80	1,43	2	1,45
Vallur anicut	3	13	..	16	..	69	..	..	85	1,08	2	1,10
Maradur anicut	61	2,44	..	3,05	1,03	12,90	..	..	16,98	20,60	43	21,03
Thadapalli channel	30	1,21	..	1,51	82	6,61	..	..	8,94	10,50	22	10,72
Arkenkotta channel	16	65	..	81	20	3,49	..	..	4,50	4,95	11	5,06
Kalingaroyan channel	41	1,64	..	2,05	50	7,44	..	..	9,99	11,09	30	11,39
Cheyar anicut	66	2,63	..	3,29	2,25	12,06	..	..	17,60	20,19	47	20,66
Poiney anicut	23	90	..	1,13	30	4,61	..	..	6,04	8,80	16	8,96
Dondapad tank	1	3	..	4	..	15	..	..	19	22	1	23
Sagileru project	6	26	..	32	..	1,60	..	..	1,92	2,28	4	2,32
Munnyeru project	19	74	..	93	..	4,05	..	..	4,98	5,40	13	5,53
Nandyar channel extension	11	42	..	53	19	2,81	1	..	3,54	3,69	7	3,76
Ganjám minor river system	88	3,53	..	4,41	..	19,18	..	..	23,59	25,27	62	25,89
Total ..	7,94	31,73	..	39,67	21,25	1,55,46	— 3	..	2,16,35	2,69,72	5,92	2,75,64
Navigation.												
Buckingham canal	3,57	14,30	..	17,87	96	76,70	2,93	4	98,50	1,08,93	3,96	1,12,89
Chilka Lake canal	2	9	..	11	..	49	..	..	60	60	2	62
Ganjám-Gopalpur canal	..	..	..	..	..	..	..	..	..	1	..	1
Védáranniyam canal	14	55	..	69	..	3,02	40	..	4,11	4,23	11	4,34
Total ..	3,73	14,94	..	18,67	96	80,21	3,33	4	1,03,21	1,13,77	4,09	1,17,86
Total, Minor Works and Navigation ..	11,67	46,67	..	58,34	22,21	2,35,67	3,30	4	3,19,56	3,83,49	10,01	3,93,50

(Signed) H. RAINIER,
Offg. Examiner, P.W. Accts., Madras and Coorg.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

A

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Urgent

UNDER date the

Statements of financial results of Irrign & navign works for 1898-99

READ the following

From the Examiner P.W.Accounts, No.3812 B/B dated 20th November 1899.
To the Examiner P.W.Accounts, No.397 dated 7th December 1899.
From the Examiner P.W.Accounts, No.4132 B/B dated 16th December 1899.
Telegram from the Government of India, No.44.A.I., dated 15th December 1899.

No 255 d/23-12-99

8 P

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 1898-99 for submission to the Government of India, ~~and states that the statements have been completed including the revised figures of Irrigation Revenue of the Periyar Project for 1898-99 only~~. He states, in his office-note No.4123 B/B, dated 15th instant, that the revised figures of Irrigation Revenue relating to the ~~above~~ Periyar project for the previous two years, as furnished by the Board of Revenue, have not been included in ~~the revised~~ his accounts for 1898-99 under instructions from the Accountant General, Public Works Department. The~~se~~ revised

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Issue

23.12.99 Mt

ICW
23/12/99

figures when taken into account will show better results under the project.

ORDER THEREON. No 1101 d/ 27.XII.99.

The following deferred telegram will be sent:-

To

The Joint Secretary
to the Government of India,
P.W.D., Irrigation Branch.

"Your wire 44 A.I. fifteenth instant.
"Manuscript copies of statements and
"Proceedings despatched this day".

2. Ordered that a copy of these -- Proceedings ~~together with the statements received from the Examiner P.W. Accounts~~ be forwarded to the Government of India with reference to its Circular No.23 of 1881.

Endorsement No 1102 d/ 27.XII.99

Forwarded

20/12

I on tour

Despd 27/12/99

D.E.A. 23.12.99

& flag C

Despd 27/12/99

355. C.S. to G. of I. D. 30/1/00.

lcw

I. Form No. 1—900—27-3-99.

21-12-99

To

The chief Engineer for Irrigation. ✓
,, Sup: Engineers of Circles. ✓
,, Examiner P.W.Accounts. ✓
,, Revenue Department. ✓

D 30/1/00

Public Works (1899) Department.

Urgent

1101-2 D

CURRENT No.

Order

From

The Chief Engineer
for Irrigation

No. 253 I.

Dated 23. 12 99
Received
Registered
Enclosures
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SUBJECT.

Statement of Financial results of Irrigation & Navigation works for 1898-99. — Note submitting the — for transmission to the Govt of India

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Public Works (1899) Department.

CURRENT No. 9457

5

From The Examiner, P.W. Accounts, Madras & Coorg.

Order No 397 d/ 7.12.99

To C. = 38b/b

The statements are returned herewith for revision and completion with reference to telegram from the Govt: of India communicated with G.O. No $\frac{1020 I}{A.L}$, dated 1st Dec: 1899 directing the preparation of revised accounts for 1898-99 and the Proceedings of the Board of Revenue (Rev: Settlement, Land Records & Agriculture) No 394 dated 29th November 1899 furnishing particulars of irrigation revenue under the Periyar Project for the above year.

(Sd.) W.H.
7-12-99

Indexed

No. 3812 $\frac{B}{B}$.

Dated 20th November 1899

Received & Registered 21-11-99

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SUBJECT.

Financial results of Irrigation & Navigation Works for 1898-99 — Submits statements showing the —

R

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.
R248 7	16-12-99

Statement

Irrigation

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P.W. $\frac{\text{m }2}{9457/99}$

up to the end of 1898-99.

[illegible] to the 31st March 1899.

43B

Madras

Statement showing the Financial Results of Irrigation works for, A… up to the end of 1898-99.
Table II, General Financial Results of the several …ertakings to the 31st March 1899.

Irrigation Works 1	Estimated cost of Construction (Exclusive of all indirect Charges) 2	Date of Completion of work 3	Capital Outlay. Direct Charges. To end of previous year 4	Capital Outlay. Direct Charges. To end of year 5	Capital Outlay. Indirect Charges. To end of year. 6	Total outla dire ind to e ye 7	Excess of interest over net revenue in past years. 8	Total Sum at Charge at end of 1898-99. 9	Interest at 4 per Cent on total Sum at charge at end of 1898-99. 10	Surplus for the year of net revenue over interest on total Sum at Charge. 11	Excess for the year of interest on total Sum at charge over net revenue. 12	Capitalized value at 4 per Cent of net revenue (excluding Charges for interest) 13	Surplus Sum to Credit in excess of total Sum at Charge 14	Excess Sum at charge over Capitalized value of net revenue. 15
Major works	Rs	Rs	Rs	Rs	Rs		Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
…oductive Public Works.														
Irrigation works.														
…averi delta System	11,34,684	1846-47	11,07,580	11,16,037	1,90,514	13,06 51	-35,13,629	-22,07,078	-88,283	3,29,003	.	60,18,000	82,25,078	
…tna — do —	12,50,836	1855-56	12,35,069	12,50,836	88,824	133 53	-18,69,451	-5,29,788	-21,192	2,22,610	.	50,35,450	55,65,238	.
…very — do —	2,63,785	1836-37	1,86,596	1,98,075	13,159	211 54	-22,73,745	-20,62,511	-82,500	1,70,280	.	21,94,500	42,57,011	.
…nar Anicut System.	1,64,758	1860-61	1,64,758	1,64,758	25,161	18 19	-1,11,091	78,828	3,153	12,487	.	3,91,000	3,12,172	.
…vaikuntam — do —	1,38,333	1870-71	1,37,074	1,37,552	10,191	14 43	-5,073	1,42,670	5,707	2,483	.	2,04,750	62,080	.
…gam — do —	3,36,324	1884-85	3,15,094	3,17,285	70,576	38 61	59,189	4,47,050	17,882	.	2,244	3,90,950	-	56,100
…rnool Cuddapah Canal.	21,72,160	1882-83	21,71,527	21,72,185	26	21,7 49	14,12,468	35,84,917	1,43,397	.	1,38,958	1,10,975	-	34,73,942
…arur tank project.	40,488	1887-88	40,218	40,218	2,287	4 05	16,574	59,079	2,363	.	1,612	18,775	.	40,304
…iyar project.	8,43,294	1896-97	8,29,285	8,43,294	24,866	8,6 50	1,92,018	10,60,178	42,407		28,034 31,951	3,59,325 2,61,400	- .	~~[illegible]~~ [illegible] 7,00,853
Total	63,44,662	....	61,87,201	62,40,240	4,25,845	66 085	-60,92,740	5,73,345	22,934	5,66,615 5,62,098	...	1,46,25,800 1,47,23,725	1,41,50,380 ~~1,40,52,455~~	...
…rotective works														
…hikulya project.	4,55,300	1891-92	4,25,522	4,30,857	39,066	4 923	1,09,068	5,78,991	23,159	.	18,784	1,09,375	-	4,69,616
Total, Major Works	67,99,962	....	66,12,723	66,71,097	4,64,911	71 008	-59,83,672	11,52,336	46,093	~~5,43,314~~ 5,47,231	..	~~1,47,35,178~~ 1,48,33,100	~~1,35,82,839~~ 1,36,80,764	....
…inor Works and Navigation.														
Irrigation works.														
…hembrambakam tank ...	63,467	1870-71	63,450	63,467	11,243	710	531	75,241	3,010	99	.	77,725	2,484	..
…lar Anicut	1,98,066	1853-54	1,96,662	1,97,041	10,769	810	75,345	2,83,155	11,326	979	.	3,07,625	24,470	..
…lantorai Anicut.	54,235	1875-76	50,722	53,998	4,566	564	55,197	1,13,761	4,550	.	2,628	48,050	-	65,711
…dras Water supply & Irrigation extension project.	1,51,583	1870-71	1,51,583	1,51,583	23,822	405	1,76,279	3,51,684	14,067	.	11,955	52,800	-	2,98,884
…wer Coleroon Anicut.	1,35,509	1848-49	78,633	91,214	2,720	934	-8,38,002	-7,44,068	-29,763	55,366	.	6,40,075	13,84,143	.
…atiatope Anicut.	22,438	1847-48	16,466	22,289	569	858	-1,96,877	-1,74,019	-6,961	16,272	.	2,32,775	4,06,794	.
…iddhachalam Anicut	4,847	1868-69	4,847	4,847	127	974	-14,058	-9,084	-363	1,630	.	31,675	40,759	.
…chamattur Anicut	6,923	1872-73	6,924	6,924	181	7,105	817	7,922	317	-	68	6,225	-	1,697
…ukkorilur Anicut.	24,795	1861-62	24,795	24,795	652	5,447	-[illegible]	13,703	548	1,035	.	39,575	25,872	.
…mbum tank.	6,131	1876-77	6,256	6,275	168	443	-7,198	-755	-30	1,150	.	28,000	28,755	.
…allur Anicut.	7,158	1872-73	6,292	6,387	16	554	3,713	10,267	411	.	58	8,825	-	1,442
…aradur Anicut.	4,366	1872-73	4,366	4,366	11	480	-1,28,520	-1,24,040	-4,962	10,084	.	1,28,050	2,52,090	.
…adapalli Channel	11,472	1854-55	11,612	11,630	935	2,565	-36,754	-24,189	-964	2,970	-	50,075	74,264	.
…keukotta Channel	10,034	1859-60	10,034	10,034	262	0,296	12,173	22,469	899	.	509	9,750	-	12,719
…lingaroyen Channel	8,563	1854-55	6,206	7,795	204	7,999	13,224	21,223	849	168	-	25,425	4,202	.
…heyar Anicut	39,441	1852-53	39,441	39,441	1,104	545	454	40,999	1,640	1,444	.	77,100	36,101	.
…Anicut.	23,003	1855-56	22,563	22,563	607	70	-42,007	-18,837	-753	5,373	-	1,15,500	1,34,337	.
[illegible]	10,222	1898-99	14,090	14,420	[illegible]	[illegible]	2,033	16,956	678	-	656	550	.	16,406
…lairu project	43,100	1898-99	42,182	43,035	1,718	753	4,350	49,103	1,964	-	1,468	12,400	.	36,703
…unniyar project.	61,400	1898-99	44,937	49,963	2,131	2,094	2,788	54,882	2,195	-	1,904	7,275	-	47,607
…ndyar Channel Extention	5,349	1895-96	5,349	5,349	222	5,571	1,050	6,621	265	-	343	-1,950	~~51,379~~	8,571
…yam minor river System	11,755	1852-53	4,336	8,179	213	8,392	-41,546	-33,154	-1,326	2,056	..	18,225	51,379	.
…pod project.	36,500	...	9,137	9,290	189	9,479	415	9,894	396	-	396	-	-	9,894
Total	9,43,357	...	8,21,189	8,54,891	63,180	8,071	-9,68,337	-50,266	-2,010	78,640	...	19,15,750	19,66,016	...
Navigation														
…ckingham Canal	8,49,791	1837-38	8,45,583	8,47,251	48,696	8 5,947	6,02,390	14,98,337	59,933	.	60,806	-21,825	.	15,20,162
…lka Lake Canal	3,024	...	3,024	3,024	79	3,103	3,158	6,261	250	.	311	-1,525	.	7,786
…jam Gopalpur Canal	14,310	...	14,310	14,310	1,239	5,549	5,611	21,160	847	.	836	275	.	20,885
…laranniyam Canal	13,270	1874-75	13,270	13,270	347	614	22,783	36,400	1,456	-	1,768	-7,800	.	44,200
Total	8,80,395	...	8,76,187	8,77,855	50,361	9 8,216	6,33,942	15,62,158	62,486	-	63,721	-30,875	-	15,93,033
…al, Minor Works & navigation	18,23,752	...	16,97,376	17,32,746	1,13,541	1 6,287	-3,34,395	15,11,892	60,476	14,919	...	18,84,875	3,72,983	..

H Raines
Offg: Examiner, P.W. Accounts,
Madras [illegible]
4

3/E Br

Madras.

Statement showing the Financial Results of Irrigation Works for,

Table I. – Principal Results of Operations for the year ended

Irrigation Works.	Mileage in Operation: Main Canal	Mileage in Operation: Distributaries	Direct capital outlay during the year 1898-99 (including cost of Establishment and Tools and plant.	Gross receipts direct and indirect from all Sources	Working Expenses: Direct	Working Expenses: Indirect	Working Expenses: Total	Net Revenue (excluding for interest): Amount	Amount	percentage on total Sum at charge	Amount	percentage on total Sum at charge	Area of land irrigated during the year: Due to old Irrigation Works	Due to new Irrigation Works	Total	Gross receipts per acre Irrigated due to New Works	Working Expenses (excluding interest) per acre irregated due to new works	Percentage of Working Expenses on receipts
1	2 Miles	3 Miles	4 Rs	5 Rs	6 Rs	7 Rs	8 Rs	9 Rs	12 Rs	13 Rs	14 Rs	15 Rs	16 acres	17 acres	18 acres	19 Rs	20 Rs	21 Rs
Major Works																		
ductive Public Works																		
Irrigation Works																		
avari delta system	503	1905	8457	317843	73365	3758	77123	240720	196248 (a)	.	.	.	155680	620813	776493	.51	.12	24.26
stna delta system	372	4625	16767	270090	65587	3085	68672	201418	151700 (a)	.	.	.	70250	496027	566277	.55	.14	25.43
very delta system.	844	1250	11479	96641	8194	667	8861	87780	80087 (a)	.	.	.	777945	216173	994118	.45	.04	9.17
nner anicut system	22	121	"	17327	1526	161	1687	15640	9060	11.48	.	.	42804	29388	72192	.59	.06	9.74
vaikuntam anicut system	28	62	478	11250	2925	135	3060	8190	2497	1.89	.	.	20791	21949	42740	.51	.14	27.20
ngam anicut system	9	295	2191	19871	3936	297	4233	15638	2990	.67	.	.	56409	21852	78261	.91	.20	21.30
rnool Cuddapah Canal	190	313	668	16231	11405	387	11792	4439	-	.	82435	2.30	.	48810	48810	.34	.24	72.65
rur tank project	20½	11¼	"	1010	247	12	259	751	-	.	858	1.45	1825	3076	4901	.33	.08	25.64
eriyar project	36	126	14009	27728 ~~28279~~	12997 ~~12603~~	358 ~~320~~	13355 ~~12823~~	14373 ~~10456~~	-	.	19079 ~~20996~~	1.72 ~~2.17~~	74467	34558	109025	.80	.39	~~55.08~~ 48.16
Total	2024½	5708¼	53039	777991 ~~776642~~	180182 ~~179688~~	8860 ~~8822~~	189042 ~~188510~~	588949 ~~585032~~	340400 ~~336486~~	59.37 ~~58.69~~	...	...	1200171	1492646	2692817	.52	.13	~~24.37~~ 24.30
Protective Works																		
Rushikulya project	80	120	5335	8782	4305	102	4407	4375	-	-	12753	2.20	47399	35566	82965	.25	.12	50.18
Total Major Works	2,104½	58,28¼	58374	786773 ~~782824~~	184487 ~~183993~~	8962 ~~8924~~	193449 ~~192917~~	593324 ~~589407~~	327647 ~~323730~~	28.43 ~~28.09~~	...	...	1247570	1528212	2775782	.51	.13	24.59 ~~24.66~~
inor Works and Navigation																		
Irrigation Works																		
hembrambakkam tank	27	"	17	3106	1	-4	-3	3109	571	.76	.	-	12709	3023	15732	1.03	-	.
Palar anicut	163	127	379	16829	4428	96	4524	12305	4431	1.56	-	.	68921	37811	106732	.45	.12	26.88
Pelandorai anicut	39	24	3276	3332	1377	33	1410	1922	-	-	172	.15	2152	7756	9908	.43	.18	42.32
adras Water Supply & Irrigation Extension project	10	.	..	2872	722	38	760	2112	-	.	3951	1.12	6314	3507	9821	.82	.22	26.46
Lower Coleroon anicut	350	546	12581	29500	3839	58	3897	25603	22206 (a)		-	.	44551	68322	112873	.43	.06	13.21
Shatiatope anicut	41	149	5823	10766	1431	24	1455	9311	8536 (a)		-	.	6902	27049	33951	.39	.05	13.51
Vriddhachalam anicut	33	16	"	1866	586	13	599	1267	1073 (a)		[illegible]	[illegible]	[illegible]	4906	7294	.58	.12	32.10
Mehamallur anicut	[illegible]	[illegible]	.	1197	926	23	948	249	.	.	28	.35	[illegible]	2938	3922	.41	.32	79.20
[illegible] anicut	[illegible]	[illegible]	.	3747	2113	51	2164	1583	591	4.31	.	.	3986	9791	[illegible]	.38	.22	57.75
Vallur anicut	3	8	19	1265	[illegible]	2	145	1120	869 (a)		.	.	[illegible]	3143	10[illegible]	.40	.05	11.46
Mamdur anicut	27	45											17427	[illegible]	[illegible]			
hadapally channel	76	11							4947 (a)		.		10170	4814	14984	.64	.22	
Arkenkotta channel	24	.	..	896	495	11			1538 (a)				2659	1536	4195	.58	.33	56.47
Kalingarayan channel	61	.	1589	2156	1109	30			-		11	.05	16462	5039	21501	.43	.23	52.83
Cheyar anicut	61	120	-	5150	2019	47			737	3.47	.	,	17796	19645	37441	.26	.11	40.12
Poiney anicut	104	78	-	5516	880	16			1506	3.67	.		18036	12191	30227	.45	.07	16.24
Doudapad tank	.	35⅝	30	45	22	1			3718 (a)		554	3.27	.	109	104	.41	.21	51.11
[illegible]	2	2	853	728	228	4			.		1208	2.46	4834	2131	6965	.34	.11	31.87
unniyar project	60¾	6½	5026	844	540	13			.		2082	3.79	777	2146	2923	.39	.26	65.52
Nandyar channel Extension	24¾	.	.	298	369	7			.		292	4.41	5971	1227	7198	.24	.31	126.17
Ganjam Minor river System	100	.	3843	3318	2527	62			479 (a)				48889	11918	60807	.28	.22	78.03
Chepad project			153	.	-	-			.		368	3.72	.			.		-
Total	1365¾	1184⅛	33702	104794	26972	592	275[illegible]		42636 (a)		.	.	315487	248110	563597	.42	.11	26.45
Navigation																		
uckingham Canal	262	..	1668	10416	10893	396	11289	-873		.	34730	2.32				-	-	108.38
Chilka lake canal	18		.	1	60	2	62	-61		.	182	2.91				-	-	6200.0
anjam-Gopalpur canal			.	12	1	.	1	11		.	561	2.65				-	-	8.3
Vadaranniyam canal	34½		.	122	423	11	434	-312		.	843	2.32				-	-	356.
Total	304½	.	1668	10551	11377	409	11786	-1235		.	36316	2.32				.		111.
otal Minor Works & Navigation	1670¼	1184⅛	35370	114745	38349	1001	39350	75395	6319	.42	.		315487	248110	563597	.46	.16	34.

(a) no percentages have been shown as the total sums at charge are minu

(b) Do. Do. amounts of net revenue are n

A. Rainier

Offg Examiner, P.W. Accounts,
Madras

E. No. 27.
1,000—29-6-99.

EXAMINER
P. W. ACCOU
7 - DEC 1899

KEEP-WITH CURRENT NO. GOVT. OF MADRAS. No 1899. P. W. DEPT.

dated 189 .

EXAMINER, P. W. ACCOUNTS.

Madras, 20th November 1899.

OFFICE NOTE No. 3882 B/B

To 1P

I

Herewith the statements showing the financial results of Irrigation & Navigation Works during 1898-99 for submission to the Government of India.

2. The necessary entries for the Kurnool Canal and Periyar Project under columns 12 and 20 for Table I have not been made as no information regarding the acres irrigated is available in -- this office.

A. X

Offg: C.

285/20-11-99.

1187/2799

FOR I...GATION
16 DEC. 1899
248

Public Works (1899) Department.

CURRENT No. 248.

V.E

From

The Examiner P.W. Accounts,
Madras & Coorg

Order

No. 4132 B/B

Dated 16th December 1899

Received
Registered } 16 - Do -

Enclosures 8 4

Spare copies.

SUBJECT.

Statements of financial results of Irrigation for 1898-99 — Returns corrected & completed the ——

F.E.I.

18/12

ACW
16/12/99

Recd 3.30 pm

18/12/99

BACK PAPERS.

No.	Date.
0397	7.12.99

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No.	Date.

E- No. 27.
1,000—16-5-98

KEEP-WITH CURRENT No.

dated 189 .

CHIEF ENGINEER
FOR IRRIGATION.
16 DEC. 1899
No. 248

GOVT. OF MADRAS. } 189~~8~~9 { P. W. DEPT.

EXAMINER, P. W ACCOUNTS.

Madras, 16th: December 189~~8~~9

OFFICE NOTE No. 4132 B/B

To 6 P

E.I.

Your O.N.No.397 of the 7th: Inst.

The statements received with the above are, herewith, returned corrected & completed including the revised figures of Irrigation Revenue of the Periyar Project for the year -- 1898-99 only.

Offg: C.

16/12/99

Telegram

P. W. (1899) Department.

CURRENT No. 10295

From The Govt of India

No. 44 A.D.

Dated 15-12-99

Received
Registered } 16-12-99

Enclosures { Plans / Others } Total.

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SUBJECT.

Requesting to expedite the submission of Financial Results of Irrigation Operations Tables I, II & III

F.E.I.

Rk

Please put up the Statements received back from C

[illegible] 18/12/99

1 Package [illegible] 18-12-99

[illegible] 18/12/99

[P. W. 2 / 2,000—17-8-99.]

ICW 16/12/99

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

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To (Person)
Madras
Works.

From (Person)
Works 7P

44 a 2 beacon[(1)]
Camera[(2)] appeaser[(3)] aire
& probable date of
despatch.

(1) Please expedite submission of

(2) Financial Results of Irrigation operations
Tables I & II & III

(3) For the report financial year

MADRAS 15-12-99

64 Word Form.

F. C 2.

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