

Public Works (1896) Department.

C.O. No. 10038

DATED 17 December

[Despatch Abstract.]

Shutters. Estimate of Rs. 600 for providing two screw geared — for the head sluice of Ban K Canal, Kistna River, the Ch. Sanctioned.

[10/12]

10/12

10/12

[illegible][illegible]

Estimate of Rs. 600 for providing two screw-gearcd — for the head-sluiice of Bank canal, Kistna Western delta, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

From W. C. LEWIS, Esq., Executive Engineer, Kistna Western Division, to the Superintending Engineer, II Circle, dated 5th November 1896, No. 333 S.

I have the honour to forward, herewith, an estimate, amounting to Rs. 600, for proposed improvements to head-sluice of Bank canal, for sanction.

2. The report accompanying explains the necessity for the same.

ENCLOSURE.

Report to accompany estimate for improvements of Bank canal head-sluice.

This sluice consists of five vents of 6' x 6', of which the three central ones only are provided with screw-gearing.

The side vents are only fitted with planks one foot wide, one above another.

It is found that under the head of water maintained in full supply season only, the top two planks can be removed, and this is not sufficient to pass full supply, especially as large extensions of irrigation are anticipated under this canal.

The estimate therefore provides for providing shutters with screw-gearing to the side vents.

The estimate is recommended for sanction from the sum of Rs. 2,170, the balance available from the provision of Rs. 3,390, item No. 530 of G.O., No. 857 I., dated 11th October 1893.

No. 2105 K.W.

Forwarded to the Chief Engineer for Irrigation, for favour of obtaining the sanction of Government to the estimate, amounting to Rs. 600, for providing two screw-gear shutters for the head-sluice of the Bank canal, Kistna Western delta.

26th November 1896.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, II Circle.

ORDER—No. 1063 I., dated 17th December 1896.

The following estimate is sanctioned from the provision made for item 530 of the statement printed in Proceedings of Madras Government, No. 857 I., dated 11th October 1893:—

Capital Expenditure not charged to Revenue.

46. Irrigation.
Kistna Delta System.
Western Section.

1. Works.
Bank Canal.
2. Main Canals and Branches.
3. Regulators.

Providing two screw-gear shutters for the head-sluice.

Estimate	...	...	...	...	...	...	...	...	Rs.
									600

2. This sanction is registered as No. 149 I. of 1896-97.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, II Circle, with three enclosures.
" Examiner, Public Works Accounts.

End. T. K. Narayana Aiyangar.

1003. 17.12.96
 PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

From Supg Engr. I. Engr. No. 2405 & W. of 26.11.96.

The following
 estimate is sanctioned
 from the provision
 made for item 530
 of the statement printed in
 in P. W. G. No. 857 J, of
 11th Oct/93. —

Capital Expenditure not
 charged to Rev.

49. Irrigation.

Krishna Delta System
 Western Section
 I. Works.

Bank Canal

2. Main Canals & Branches

3. Regulators

Providing two screw
 geared shutters for the
 head sluice.

Estimate Rs 600

2. This sanction is
 registered as No. 1498

of 187697-116

10/12

To the Chief Engr. I.
 Supg Engr. I. Engr. with
 Sd. P. S. on permls.

10/12 1912

Chas
1-12-96.

Public Works (1896) Department.

CURRENT No. *11410*
7-1-96

Order

From

Majr W. C. Daddley RE
Supg. Engineer
2nd Field

No. 2405 HW

Dated 26 November 1896
16-12-96

Received 30 — *7* — *70*

Enclosures 2 *4* *(1/2)*

Spare copies

SUBJECT.

Proposed Improvements
to Head Race of Bark
Canal. Forwards
Est of Rs 600 for sanction
for this —.

Entered
1896
29-11-96

11/12/96

BACK PAPERS.

G.O.	No.	Department.	Date.
	8579	P w	11-10-96

FURTHER PAPERS.

[illegible]

Report to accompany estimate for
Improvements of Buck Canal Head Sluice.

This sluice consists of 5 units of 6' x 6' of which the three central ones only are provided with screw gearing—

The Sick ments are only fitted with
planks 1' wide one above another.

It is found that under the head of water maintained in full supply season only the top two planks can be removed and this is not sufficient to pass full supply especially as large extensions of Irrigation are anticipated under this canal.

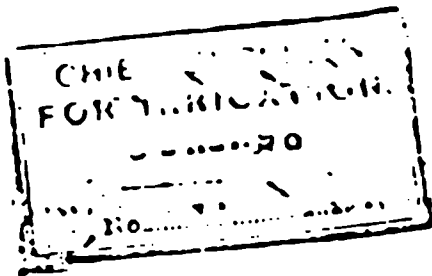
The estimate therefore provides for providing shutters with screw gearing to the side vents—

The estimate is recommended for
sanction from the sum of Rs 2170 the
balance available from the provision of
Rs 3370 item No 530 of G.O. No 8572
11-10-93.

Macur

Executive Engineer
Victoria Harbor Dr.

29/10



Letter from W. C. Lewis Esquire, Executive Engineer, Krishna-Wisakom D^o, to the Chief Engineer, Dist Circle, dt 5.11.96, No 333 P.

I have the honour to forward herewith an estimate amounting to Rs 600 for proposed improvements to Head Sluice of Bank Canal for sanction.

2. The report accompanying explains the necessity for the same.

No 21,05 NW
26.11.96

Encl. 2

1 Dist Est
with report

1 Tracing

2

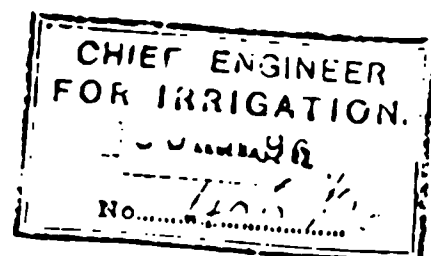
Forwarded to the Chief Engineer for Irrigation for favour of obtaining the sanction of Government to the estimate amounting to Rs 600 for providing two screw geared shutters for the Head Sluice of the Bank Canal, Krishna-Wisakom Delta.

W. C. Buddhy

Major RE

Supergrng. II Circle

W.



11th OCTOBER 1893, No. 857 I., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From the Superintending Engineer, II Circle, dated 30th July 1893, No. 1111 K.S.
Office-note to the Examiner, Public Works Accounts, dated 5th August 1893, No. 196.
From the Superintending Engineer, II Circle, dated 23rd August 1893, No. 1270 K.S.
Office-note to the Examiner, Public Works Accounts, dated 1st September 1893, No. 277.
" from " " " 13th " " " 948.
" from " " " 13th " " " 950.
From the Superintending Engineer, II Circle " 16th " " "
Office-note to the Examiner, Public Works Accounts " 11th " " " 240.

No. 145 I.

Note by the Chief Engineer for Irrigation.

In letter No. 10 I., dated 22nd January 1889, printed in Proceedings of the Madras Government, No. 62 I., dated 11th February 1889, the Government of India extended for a further period of 5 years, commencing from the 1st April 1888, the Secretary of State's sanction to the estimates for the completion of the Kistna delta system as shown below :—

	Rs.
Direct charges	1,39,19,784
Indirect do.	9,81,160
Total	1,49,00,944

This extension of sanction expired on the 31st March 1893.

2. In G.O., No. 869 I., dated 26th October 1892, statements of outlay already and to be incurred were called for to admit of an application being submitted for a further extension of sanction. With his letter, No. 1111 K.S., dated 30th July 1893, the Superintending Engineer, II Circle, submitted the statements required, viz. :—

No. I statement showing by sub-heads the sanctioned estimates, the expenditure incurred up to end of 1892-93 and the balances of the estimates.

No. II statement showing the items on which expenditure will have to be incurred after 31st March 1893 in completing the delta works. The principal items of this statement have been indicated by an asterisk.

The figures of outlay shown in both statements have been verified and corrected where necessary by the Examiner of Public Works Accounts. The amounts of the estimates entered in statement No. II as submitted by the Superintending Engineer included the sanctions accorded by Government up to end of June 1893, but the statement has been revised in this office so as to include all sanctions up to date. It is recommended that the two abstracts by main and sub heads appended to this note and statement No. II, of which the Superintending Engineer wishes to be furnished with 30 copies, be printed. The great delay in the submission of the statements is attributed by the Superintending Engineer to their bulk and the time required in fair copying and comparing them.

3. The total direct charges to the end of 1892-93 were Rs. 1,00,44,233, leaving Rs. 38,75,551 as the unexpended balance of the sanctioned estimate on 1st April 1893 still to be worked out. Rs. 56,73,820 of the expenditure were spent prior to 1882-83, Rs. 21,40,202 during the period 1882-83 to 1887-88 and the balance Rs. 22,30,211 during 1888-89 to 1892-93. The following are the principal works executed during the last quinquennium :—

Eastern Section—Head Works—The anicut crest was raised by 1 foot of concrete with cast iron grooved posts between which planks can be slipped when required to retain water to the required height after the season for floods. Screw gearing shutters to the Sitanagaram under sluices were provided. Quarters for the Executive and Assistant Engineers at Bezvada were constructed. An office for the Executive Engineer and anicut lascars and lock establishment sheds were also built.

Ryves canal.—One bridge, 6 head sluices, 7 minor sluices, 1 culvert, 2 regulators, 5 distributaries and 2 minor branches were completed.

Ellore canal.—Three outlets, 1 aqueduct, 1 bridge and 5 large distributaries were completed. The canal banks were raised.

Masulipatam canal.—The canal was widened by 13 feet from head to 4 miles 5 furlongs; 2 head sluices and 54 masonry slope drains were constructed.

Bantumilli canal.—Kamalapuram lock, the main distributary, south side channel and one minor channel were completed. The tail lock and lock weir were almost completed. Five head sluices, 2 bridges and 12 minor sluices were also completed. Widening and extension of canal was practically finished.

Bank canal.—The lock and sluice at head of canal were completed. The canal for 13 miles was excavated to full bottom width.

Pulleru canal.—The straight cut, 3 bridges, 4 head sluices, 9 sluices and 3 distributaries were completed.

Pamarru junction canal.—One bridge was constructed.

Polraz canal.—One lock, improvements to 1 head sluice, construction of 5 head sluices, 2 outlets and inlets, 12 minor masonry works, 9 bridges and 7 distributary channels were completed. The canal was widened in the first $7\frac{1}{2}$ miles.

Drains.—The Inampudi, Polraz, Chendrayacodu, Peddakommileru, Pallava and Kanakavalli drains and the Lingala and Vadlamanad affluents were completed. The Iazzubanda drain and Chinnakommileru affluent were widened and the Peddalanka drain was excavated to tentative width.

Western Section—Head Works.—Quarters for the Executive and Assistant Engineers at Duggirala were constructed.

Main canal.—The widening of this canal from 1 to 6 and 9 to 12 miles was in progress.

Bank canal.—One lock weir, 1 rest-house and 2 head sluices were constructed. One channel was extended, the canal was widened and the diversion of the canal at Penumudi was completed.

Commamur canal.—The improvements to canal in 1st to 4th reaches, 1 inlet, 1 surplus sluice, 1 bridge, 12 distributaries, 3 minor masonry works and drainage affluents were completed.

Nizampatam canal.—One bridge and lock establishment quarters at Duggirala were constructed.

Drains.—Iskapalli aqueduct of Bhattiprole drain, Langagunta affluent and 1 bridge were completed. The Tungabhadra drain was widened, and Nallamada and Sakkikalva affluents and the Karenchedu drain were completed. The earthwork improvements to the Romperu drain were almost completed to its junction with Sakkikalva affluent (5 miles 37 chains).

4. After providing for all known requirements, except for the works required for carrying out the extension of irrigation recently approved (*vide* paragraph 6), the amount available for unforeseen works is, as shown in the distribution given in the margin of the total amount sanctioned for works outlay, Rs. 3,75,257, which represents the unappropriated balance of the sanctioned provision for the extension of the Eastern Bank canal and the Puligedda aqueduct which are not now required, it having been recently decided that it was unnecessary that any further expenditure should be incurred upon the extension of the Bank canal and the proposed irrigation of 15,000 acres thereby, whilst there is ample area available for irrigation under the Ellore, Ryves and Masulipatam canals.

5. The irrigation under the delta is advancing very rapidly. There was an extension of irrigation from 337,327 acres in 1886-87 to 471,114 acres in 1892-93 and an increase of revenue from Rs. 11,74,582 to Rs. 15,00,680. The financial result during 1892-93 was a net return, after paying interest charges, of 8.87 per cent. on the total capital invested against 7 per cent., the ultimate financial result anticipated.

6. The ultimate area of irrigation as originally contemplated in the project estimates was 475,000 acres, but recent inquiry has shown that it would be unwise to restrict cultivation to that extent. Under the Ellore canal a head sluice and channel for the irrigation of 12,000 acres have already been carried out some years back, but kept closed owing to the restriction placed hitherto upon the extension of irrigation.

The Superintending Engineer was there-fore instructed to have this sluice opened during the irrigation season and the effects upon the flow and water levels of the Ellore canal carefully gauged and recorded. He was also requested to forward the necessary estimates of the probable cost of putting the Masulipatam and Ryves canal into a condition fit to cope with the increased supply they may be called upon to carry. An estimate, amounting to Rs. 34,200, for widening the former canal was

sanctioned in G.O., No. 356 I., dated 22nd April 1893, but the estimate for the latter canal has not yet been submitted. With these canals rendered efficient there is every probability of an extension in both sections of irrigation to the extent of 100,000 acres beyond what was fixed as the ultimate area.

7. As no excess over the sanctioned estimate for the delta is anticipated, merely an extension of the period of sanction for another 5 years is now necessary.

28th Sept. 1893. (Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

ENCLOSURES.

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle.

Statement showing the principal items on which expenditure will have to be incurred and												
No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	Amount of sanctioned estimate.	EXPENDITURE.				Increase.	Decrease.	Remarks.
						Rs.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.			
1	2	3	4	5	6	7	8	9	10	11	12	
				KURMA EASTERN SECTION.								
				Head Works.								
1	No. 680 I. of 30th June 1893	(1) C.	..	Curtain wall in rear of Neethangam head sluice	2,300	..	2,300	2,300	..	..		
2	Do.	..	..	Driving piles in front of Neethangam head sluice..	2,200	..	2,200	2,200	..	..		
				Total ..	6,600	..	6,600	6,600	..	..		
3		(1) O.	..	Wire fencing to Public Works Department lands in Buckinghampet	..	..	1,025	1,025	1,025	..		
				Total (1) Head works ..	6,600	..	7,625	7,625	1,025	..		
				Mandapam canal.								
4	No. 662 I. of 6th Augt. 1892	(2) K.	..	Quarters for lock establishment at Nilamole	1,630	1,104	426	1,630	..	..		
5	No. 676 I. of 1st July 1890 and No. 682 I. of 7th Oct. 1890	(2) L.	1 12	Improving and widening canal	1,03,200	80,838	24,362	1,03,200	..	..		
6	No. 356 I. of 22nd April 1893	..	..	Do.	34,200	..	34,200	34,200	..	..		
7	No. 676 I. of 1st July 1896	..	..	Stubbing trees	5,000	..	5,000	5,000	..	..		
				Total ..	1,44,400	90,938	63,562	1,44,400	..	..		
				Total (2) Main canals and branches ..	1,46,930	81,942	63,028	1,45,930	..	..	Lump sum.	
8	No. 856 I. of 17th Oct. 1892	(3) B.	..	Compensation for land required for west side channel	2,000	..	2,000	2,000	..	..		
9	Do.	..	..	Do. for Medur channel	2,800	..	2,800	2,800	..	..		
10	Do.	..	..	Do. for Kintaparam branch of Medur channel.	1,270	..	1,270	1,270	..	..		
11	Do.	..	..	Do. (Gudampad of Medur channel.	800	..	800	800	..	..		
				Total ..	7,870	..	7,870	7,870	..	..		
12	No. 856 I. of 17th Oct. 1892	(3) C.	..	Masonry works on west side channel	7,600	..	7,600	7,600	..	..	Lump sum.	
13	Do.	..	..	Medur channel head sluice	1,000	..	1,000	1,000	..	..		
14	No. 427 I. of 13th May 1893.	..	..	No. 6 solid masonry sluice	600	..	600	600	..	..		
15	Do.	..	..	Do. drop No. 1	435	..	435	435	..	..		
16	No. 573 I. of 20th June 1893	..	..	Do. drop No. 2 over bridge at 6 miles 1 1/2 furlongs	710	..	710	710	..	..		
17	No. 856 I. of 17th Oct. 1892	..	..	Do. drop No. 3 over bridge at 7 miles 6 furlongs	675	..	675	675	..	..		

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.				Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.			
1	2	3	4	5	6	7	8	9	10	11	12
KURNA EASTERN SECTION—cont.											
18	No. 856 I. of 17th Oct. 1892	(3) C.	..	Madur tail escape	180	..	150	180	..	..	..
19	No. 873 I. of 9th June 1893	..	..	Head sluice to Kintapattam branch	360	..	360	360	..	..	..
20	No. 866 I. of 17th Oct. 1892	..	..	Field masonry sluice	100	..	100	100	..	..	..
21	No. 873 I. of 9th June 1893	..	..	Road culvert at 2 miles 9 furlongs across Middlemole road.	650	..	650	650	..	..	..
22	No. 846 I. of 17th Oct. 1892	..	..	Tail escape	100	..	100	100	..	..	..
23	No. 873 I. of 9th June 1893	..	..	Head sluice to Gudupad branch	390	..	390	390	..	..	..
24	No. 856 I. of 17th Oct. 1892	..	..	Tail escape to do.	100	..	100	100	..	..	..
25	No. 765 I. of 2nd Sept. 1893	..	22 0	Surplus weir	4,300	..	4,300	4,300	..	..	..
				Total	16,760	273	16,487	16,760	..	..	Lump sum.
26	No. 856 I. of 17th Oct. 1892	(3) L.	..	Distributaries of west side channel	18,000	..	18,000	18,000	..	..	..
27	Do.	..	22 0	Madur channel	6,850	..	6,850	6,850	..	..	..
28	Do.	..	..	Kintapattam branch of Madur channel	3,180	..	3,180	3,180	..	..	..
29	Do.	..	..	Gudupad branch of Madur channel	1,760	..	1,760	1,760	..	..	..
				Total	98,790	..	29,790	28,790	..	..	Lump sum.
30	Appendix D printed in G.O., No. 181 I. of 28th Feb. 1892.	(3) O.	..	Cattle-crossing west side channel	1,500	..	1,500	1,500	..	..	..
				Total (3) Distributaries	64,920	273	64,647	64,920	..	..	..
				Total, Masulipatam canal	2,00,650	82,215	1,18,435	2,00,650	..	..	..
Pullara canal.											
31	No. 318 I. of 11th April 1893	(2) D.	..	Compensation for land required for depositing silt	3,650	145	3,810	145	145	..	..
32	Do.	..	..	Do.	..	..	..	..	..	..	..
33	Do.	(3) L.	..	Widening from Panarua to Cowtaram	3,650	145	3,650	3,795	145	..	..
34	No. A.	(3) O.	..	Other cattle-crossings	..	..	22,000	22,000	22,000	..	Lump sum.
35	Superintending Engineer's No. 2185 K.S. of 8th Dec. 1891.	..	..	Mile and furlong stones along the Pullara canal	3,745	80	2,745	3,745	..	..	..

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	200	80	120	200	Lump sum.
					3,105	160	2,945	3,105	
36	No. 563 I. of 18th July 1891	..	..	Demarcation stones along Upper Pullara	..	..	..	..	..
				Total	3,105	160	2,945	3,105	..
				Total (2) Main canals and branches	6,755	305	28,595	28,900	..
37	Para. 80 of the note printed in No. 378 of 26th Dec. 1876.	(3) B.	..	Kalidindicu	460	..	460	460	Lump sum.
38	Do.	..	..	Potlammidi channel	1,100	..	1,100	1,100	Do.
39	No. 632 I. of 8th July 1884	..	..	Pantamilli south side channel	2,080	1,069	1,011	2,080	..
40	Superintending Engineer's No. 2644 K.S. of 16th Mar. 1889.	..	..	Proposed head of Panarua Lunbacode	277	..	277	277	..
41	Superintending Engineer's No. 860 K.S. of 2nd July 1890.	..	..	Yodlacodu extension	215	21	194	215	..
42	Superintending Engineer's No. 2099 K.S. of 9th Mar. 1892.	..	..	Right side channel of Motar channel from 2 miles 63 chains	340	60	280	340	..
43	Superintending Engineer's No. 1046 K.S. of 6th Aug. 1892.	..	..	Right side channel of Motar channel from No. 6 or Sin-ganapudi head sluice	107	..	107	107	..
44	No. 691 I. of 30th July 1886	..	..	Channala in the 6th section for which estimates have not yet been prepared	8,015	441	6,015	8,015	Lump sum.
45	No. 281 I. of 25th Mar. 1891	..	..	Left side channel of Kalidindicu	1,400	..	959	1,400	..
46	No. 846 I. of 14th Oct. 1892	..	..	Right side channel of Gudirada channel	103	..	103	103	..
47	No. 824 I. of 22nd Sept. 1893	..	..	Facilitating Venuesacodu	240	..	240	240	..
48	No. 3170 K.S. of 22nd Mar. 1893.	..	..	Head to Kanur Babbarcode and Chevandra channel	38	..	32	32	..
49	No. 687 I. of 4th July 1893	..	..	Chintalarcode extension	637	..	637	637	..
50	No. 601 I. of 8th July 1893	..	..	Left side channel of Gudirada channel	241	..	241	241	..
				Total	15,147	1,691	13,656	15,147	..
51	No. 845 I. of 14th Oct. 1892	(3) C.	..	Sluice to right side channel of Gudirada channel	436	332	104	436	..
52	No. 445 I. of 3rd May 1884	..	..	Panarua channel, Pongadua branch, one head sluice and one drop	400	..	600	600	Lump sum.
53	Do.	..	..	Do.	223	..	223	223	Lump sum.
54	Do.	..	..	Komaravole branch head sluice	150	..	150	150	Lump sum.
55	No. 673 I. of 9th June 1892	..	..	Regulator in Palacodu for Panarua branch No. 1	210	..	210	210	Lump sum.
56	Superintending Engineer's No. 2622 K.S. of 1st March 1892.	..	..	Head sluice to old Palacodu in left bank, Motar channel.	646	..	646	646	Lump sum.
57	Para. 80 of the note printed with G.O., No. 8618 of 22nd Dec. 1876.	..	..	Fifteen minor sluices	6,250	..	6,250	6,250	Lump sum.
58	Superintending Engineer's No. 1981 K.S. of 7th Nov. 1892.	..	..	Combined head sluice to Chevandra channel and Kanur Babbarcode	600	82	618	600	..
59	Superintending Engineer's No. 2502 K.S. of 19th Jan. 1893.	..	..	Bridge at 3rd mile of Doggumilli crossing	900	90	810	900	..
60	Superintending Engineer's No. 1568 K.S. of 8th Nov. 1892.	..	..	Head sluice to Golinipalli channel on the right bank of Gudirada channel at 2 miles 63 chains.	480	472	8	480	..
61	Do.	..	..	Do. on the left bank of Gudirada channel at 4 miles 36 chains	490	..	490	490	..
62	Do.	..	..	Do. on the right bank of Gudirada channel at 4 miles 70 chains	490	..	490	490	..
63	Do.	..	..	Do. on the left bank of Gudirada channel at 6 miles 69 chains	565	214	351	565	..

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

Statement showing the principal items of expenditure on the works of the Government of Madras												
No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.				Increase.	Decrease.	Remarks.	
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	
KURNA EASTERN SECTION—cont.												
Pallars canal—cont.												
64	No. 449 I. of 17th May 1893	(3) C.	..	Head sluice to Diwan Sahibodu at 6 miles 3 furlongs of Butleroda ..	400	..	400	400	..	..	Lump sum.	
65	Do.	..	..	Head sluice to Vemavaram channel at 6 miles 4 furlongs of Butleroda ..	800	..	800	800	..	..		
66	No. 691 I. of 30th July 1894	..	..	Masonry works on distributaries for which detailed estimates have not been prepared ..	33,763	574	33,189	33,763	..	..		
67	No. 697 I. of 4th July 1893	..	..	Culvert on Kankipad road over Chintalaroda ..	810	..	810	810	..	..		
68	No. 824 I. of 22nd Sept. 1893	..	..	Head sluice to Vennelacodu ..	470	..	470	470	..	..	Lump sum.	
Total ..					46,663	1,764	44,819	46,663	..	..		
69	No. 291 I. of 25th May 1891	(3) L.	..	Kalidindicodu left side channel .. from 3 miles 63	2,500	2,012	488	2,500	..	..		
70	Superintending Engineer's No. 2389 K.B. of 9th March 1892.	..	..	Right side channel of Motar channel .. chains	620	15	605	620	..	..		
71	Superintending Engineer's No. 1145 K.B. of 6th Aug. 1892.	..	..	Do. do. from sluice No. 6.	211	..	211	211	..	..	Lump sum.	
72	No. 846 I. of 14th Oct. 1892	..	..	Right side channel of Gudirida channel ..	381	..	381	381	..	..		
73	No. 601 I. of 8th July 1893	..	..	Left side channel of do. ..	323	..	323	323	..	..		
74	No. 578 I. of 29th June 1892	..	..	Extending the Panjandra branch No. 1 ..	430	..	430	430	..	..		
75	No. 824 I. of 22nd Sept. 1893	..	..	Excavating Vennelacodu ..	430	..	430	430	..	..	Lump sum.	
76	No. 691 I. of 30th July 1894	..	..	Distributaries ..	71,927	..	71,927	71,927	..	..		
77	No. 225 I. of 13th March 1893	..	..	Improving the Butleroda ..	1,670	..	1,670	1,670	..	..		
78	No. 697 I. of 4th July 1893	..	..	Do. the Chintalaroda ..	1,320	..	1,320	1,320	..	..		
Total ..					79,714	2,027	77,687	79,714	..	..	Lump sum.	
79	No. 311 I. of 26th Mar. 1895 and No. 591 I. of 29th Nov. 1893.	(3) O.	..	Ankanagudem ramp ..	625	445	180	625	..	..		
80	Do.	..	..	Annamayyapadi do. ..	585	..	585	585	..	..		
81	Do.	..	..	Budrapala do. ..	562	..	562	562	..	..		
82	No. 456 I. of 3rd May 1894	..	..	Pamaru cattle crossing ..	500	..	500	500	..	..	Lump sum.	
83	Do.	..	..	Palacodu ..	185	..	185	185	..	..		
84	No. 463 I. of 16th July 1891	..	..	Demarcation stones along Motar channel ..	770	..	770	770	..	..		
85	Superintending Engineer's No. 2389 K.B. of 29th March 1892.	..	..	Do. to right side channel to Motar channel.	20	..	20	20	..	..		
86	No. 824 I. of 22nd Sept. 1893	..	..	Fixing demarcation stones along Vennelacodu ..	10	..	10	10	..	..	Lump sum.	
87	No. 1473 K.B. of 23rd Sept. 1891.	..	..	Do. along Bantumilli canal, south side channel ..	80	..	80	80	..	..		
Total ..					1,52,253	6,542	1,45,711	1,52,253	22,145	..		Lump sum.
88	No. 363 I. of 26th April 1893	(2) K.	..	Total, Pullaru canal ..	1,52,253	6,542	1,45,711	1,52,253	22,145	..		
89	Do.	..	..	Lock lacaru shade ..	336	42	293	336	..	..		
90	Do.	..	..	Total, Pamaru junction canal ..	810	787	213	810	..	..		
91	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	..	336	336	..	..	Lump sum.	
92	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
93	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
94	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
95	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
96	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
97	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
98	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
99	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
100	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
101	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
102	Do.	..	..	Total ..	..	..	..	..	..	..		
103	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
104	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
105	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
106	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
107	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
108	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
109	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
110	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
111	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
112	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
113	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
114	Do.	..	..	Total ..	..	..	..	..	..	..		
115	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
116	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
117	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
118	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
119	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
120	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
121	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
122	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
123	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
124	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
125	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
126	Do.	..	..	Total ..	..	..	..	..	..	..		
127	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
128	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
129	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
130	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
131	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
132	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
133	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
134	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
135	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
136	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
137	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
138	Do.	..	..	Total ..	..	..	..	..	..	..		
139	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
140	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
141	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
142	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
143	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
144	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
145	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
146	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
147	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
148	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
149	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
150	Do.	..	..	Total ..	..	..	..	..	..	..		
151	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
152	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
153	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
154	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
155	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
156	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
157	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
158	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
159	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
160	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
161	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
162	Do.	..	..	Total ..	..	..	..	..	..	..		
163	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
164	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
165	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
166	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
167	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
168	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..	80	80	..	..		
169	Do.	..	..	Do. 0 mile 3,000 feet ..	80	..	80	80	..	..		
170	Do.	..	..	Do. 1 mile 720 ..	80	..	80	80	..	..		
171	Do.	..	..	Do. 3 miles 1,660 ..	80	..	80	80	..	..	Lump sum.	
172	Do.	..	..	Do. 4 miles 3,960 ..	174	..	174	174	..	..		
173	Do.	..	..	Do. 6 miles 950 ..	..	..	..	..	..	..		
174	Do.	..	..	Total ..	..	..	..	..	..	..		
175	Do.	..	..	Sluice to left bank at 10 miles 1,185 feet ..	336	42	293	336	..	..	Lump sum.	
176	Do.	..	..	Do. to right bank at 10 miles 1,320 feet ..	837	20	817	837	..	..		
177	Do.	..	..	Three earthenware pipe sluices at right bank ..	300	..	300	300	..	..		
178	Do.	..	..	Fixed sluice to Korlapad channel ..	1,000	787	213	1,000	..	..		
179	Do.	..	..	Seven minor sluices ..	300	..	300	300	..	..	Lump sum.	
180	Do.	..	..	Peddakommleru north side channel, right bank sluice, at ..	80	..						

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	Amount of sanctioned estimate.	EXPENDITURE.				Increase.	Decrease.	Remarks.
						Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13
				KURNA EASTERN SECTION—cont.								
				Poles canal—cont.								
114	Superintending Engineer's No. 3762 K.S. of 13th Feb. 1893	..	..	Peddakommleru north side channel, right bank sluice, at 7 miles 1,985 feet	188	..	188	188	..	..	..	Lump sum.
115	Do. do. do.	..	..	Do. do. 8 " 2,285 "	89	..	89	89	..	..	..	
116	Do. do. do.	..	..	Do. do. 9 " 4,325 "	89	..	89	89	..	..	..	
117	Do. do. do.	..	..	Lingala channel head sluice	..	..	900	900	..	900	..	
118	Do. do. do.	..	..	Do. aqueduct	..	..	1,200	1,200	..	1,200	..	
119	No. 635 I. of 19th July 1893	..	..	Head sluice to Peddakommleru, branch No. II	480	..	480	480	..	..	..	
120	Do. do. do.	..	..	No. 1 sluice at 0 mile 4,620 feet of do.	100	..	100	100	..	..	..	
121	Do. do. do.	..	..	" 2 do. at 1 " 3,300 " do.	180	..	180	180	..	..	..	
122	Do. do. do.	..	..	" 3 do. at 2 miles 1,900 " do.	180	..	180	180	..	..	..	
123	Do. do. do.	..	..	Under-tunnel at the head at 0 mile 3,960 feet	170	..	170	170	..	..	..	
124	No. 247 L. of 10th Mar. 1886	..	..	Head sluice to Rudravaram channel	310	..	310	310	..	..	..	
125		..	..	Kyhalur road side channel head sluice	..	..	490	490	..	490	..	
				Total	4,552	849	6,293	7,142	2,690	..	..	
126	No. 313 I. of 2nd July 1889	(3) L.	..	Ten minor distributaries	4,212	..	4,212	4,212	..	..	..	
127	No. 328 K.S. of 25th Mar. 1891	..	..	Cherurodu	2,300	1,784	636	2,300	..	..	..	
128	No. 651 I. of 1st July 1891	..	..	Korlapad channel	1,680	1,235	445	1,680	..	..	..	
129	No. 2909 K.S. of 25th Feb. 1893	..	..	Korlapad side channel	260	..	260	260	..	..	..	
130	Do. do. do.	..	..	Lingala channel	..	..	2,000	2,000	..	2,000	..	
131	No. 635 I. of 19th July 1893	..	..	Peddakommleru, branch No. II	1,950	..	1,950	1,950	..	..	..	
132		..	..	Extending and improving Kyhalur channel	..	..	2,600	2,600	..	2,600	..	
133		..	..	Do. Peddakommleru south side channel	..	..	1,630	1,630	..	1,630	..	
134		..	..	Rudravaram channel, extending and improving	..	..	4,000	4,000	..	4,000	..	
135		..	..	Kyhalur road side channel	..	..	360	360	..	360	..	
				Total	10,402	2,989	18,993	21,992	11,690	..	..	
136	Superintending Engineer's No. 3124 K.S. of 11th Mar. 1891	(3) O.	19 50	Demarcation stones along Kallapalera side channel	80	14	86	80	..	..	..	Lump sum.
137	No. 631 I. of 1st July 1891	..	12 5	Do. Korlapad channel	60	10	60	60	..	..	..	
138	No. 984 I. of 16th Dec. 1891	..	3 1	Do. branch No. I, Peddakommleru south side channel	260	43	217	260	..	..	..	
139	No. 312 I. of 2nd July 1889	..	..	Cattle ramps at 6 miles 1,122 feet	272	..	272	272	..	..	..	
140	Do. do. do.	..	..	Do. on Peddakommleru south side channel	464	338	126	464	..	..	..	
				Total	80	14	86	80	..	..	..	
141	Do. do. do.	..	..	Do. Chevrutoda	287	224	163	287	..	..	..	
142	Superintending Engineer's No. 3286 K.S. of 26th Mar. 1891	..	..	Do. north side channel	200	60	150	200	..	..	..	
143	Superintending Engineer's No. 2909 K.S. of 25th Feb. 1893	..	..	Do. Korlapad side channel	32	..	22	32	..	..	..	
144	No. 635 I. of 19th July 1893	..	..	Demarcation stones along Peddakommleru south side channel, branch No. II	59	..	59	59	..	..	..	
				Total	1,804	679	1,125	1,804	..	..	..	
145	Para. 77 of the note printed in G.O. No. 3528 of 22nd Dec. 1875.	(4) B.	..	Upputera	160	..	160	160	..	..	..	
146	Superintending Engineer's No. 861 K.S. of 2nd July 1890.	..	..	Compensation for ring channel through Kottada weir	25	..	35	35	..	..	..	
147	Do. do. do.	(4) L.	..	Total	186	..	186	186	..	..	..	
148	Do. do. do.	..	..	Embanking Upputera	2,710	..	2,710	2,710	..	..	..	
				Do. do. do.	795	..	795	795	..	..	..	
				Total	3,505	..	3,505	3,505	..	..	..	
				Total (4) Drainage and protective works	3,890	..	3,890	3,890	..	..	..	
				Total, Polras canal	32,151	9,088	37,292	46,380	14,229	..	..	
149	No. 39 I. of 13th Jan. 1883	(2) B.	..	Bantamilli canal.	30	..	30	30	..	..	..	Lump sum.
150	No. 710 I. of 4th Dec. 1890 and No. 411 I. of 9th May 1893.	..	..	Compensation for land—old claims	6,200	441	6,759	6,200	..	..	..	
				Compensation for Bantamilli canal extension to Upputera.	..	..	..	..	..	..	..	
151	No. 710 I. of 4th Dec. 1890 and No. 411 I. of 9th May 1893.	(2) L.	..	Total	6,230	441	6,789	6,230	..	..	..	
152	Do. do. do.	..	..	Tidal lock near Latehmipuram	31,000	29,342	6,668	31,000	..	..	..	
153	No. 30 I. of 13th Jan. 1883	(2) K.	..	Lock weir near Latehmipuram	4,910	4,641	269	4,910	..	..	..	
154	No. 363 I. of 25th April 1893	..	..	Total	35,910	29,983	6,927	35,910	..	..	..	
155	No. 30 I. of 13th Jan. 1883	(2) L.	..	Chandrala rest-house	1,300	..	1,300	1,300	..	..	..	
156	No. 30 I. of 13th Jan. 1883	..	..	Single lock lower shed at Kamalapuram	310	..	310	310	..	..	..	
157	No. 449 I. of 1st April 1886 and No. 710 I. of 4th Dec. 1890	..	..	Total	1,610	..	1,610	1,610	..	..	..	
				Canal extension	46,980	43,673	3,307	46,980	..	..	..	
				Widening and deepening	15,300	10,278	5,022	15,300	..	..	..	
				Widening from Courtam to Kamalapuram	..	..	3,550	3,550	..	3,550	..	
				Total	62,240	43,961	11,879	66,830	9,650	..	..	

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

Statement showing the principal items on which expenditure was incurred												
No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.				Increase.	Decrease.	Remarks.	
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	
KISTNA EASTERN SECTION—cont.												
Bantamilli canal—cont.												
158	No. 30 I. of 12th Jan. 1888	(2) G.	..	Cowtaram ramp ..	280	..	280	280	..	..	Lump sums.	
159	Do. do.	..	..	Dagumilli do. ..	300	..	300	300	..	..		
160	Do. do.	..	..	Cherandra do. ..	420	..	420	420	..	..		
161	Do. do.	..	..	Nallagunta do. ..	290	..	290	290	..	..		
162	Do. do.	..	..	Kaladagunda do. ..	190	..	190	190	..	..		
163	Do. do.	..	..	Retulur do. ..	300	..	300	300	..	..		
164	Do. do.	..	..	Amudalipalli do. ..	345	..	345	345	..	..		
165	Do. do.	..	..	Cruttivenau do. ..	830	..	830	830	..	..		
166	Do. do.	..	..	Chendrala do. ..	615	..	615	615	..	..		
167	No. 710 I. of 4th Dec. 1890	..	..	Demarcation stones along canal extension	480	108	372	480	..	..		
Total ..					3,710	108	3,818	3,710	..	..		
Total (2) Main canals and branches ..					1,09,740	84,463	25,277	1,13,290	3,450	..		
Old claims—Chenna Adacodu ..					159	..	159	159	..	..		
168	Superintending Engineer's No. 3199 K.B. of 24th Mar. 1893	(3) B.	..	Compensation for land required for the main distributary ..	3,436	..	3,436	3,436	..	..		
169	No. 490 I. of 28th Nov. 1889	..	..	Right side channel of Kaldindi ..	210	61	159	210	..	..		
170	Superintending Engineer's No. 2198 K.B. of 20th Nov. 1890	..	..	Kamalapuram north side channel ..	1,456	..	1,456	1,456	..	..		
171		..	..	Total ..	6,261	61	6,210	6,231	..	..		
Pender pile to the head of Kamalapuram lock weir ..					1,080	891	189	1,080	..	..		
172	No. 738 I. of 29th Aug. 1892	(3) C.	..	Head sluice to Lallaborsoda ..	390	..	390	390	..	..		
173	No. 412 I. of 6th May 1893	..	..	Sluice to Duddicodu ..	610	468	142	610	..	..		
174	No. 890 I. of 28th Nov. 1889	..	..	Sluice to Kallaguntacodu ..	655	479	176	655	..	..		
175	Do. do.	..	..	Bridges with regulator on Bantamilli road at 6 miles 2,070 feet ..	2,202	2,078	124	2,202	..	..		
176	Do. do.	..	..	Sluice to road side channel ..	917	813	104	917	..	..		
177	Do. do.	..	..	Do. (Gannanamarodu) ..	493	434	59	493	..	..		
178	Do. do.	..	..	Do. Vavaka channel ..	862	882	180	862	..	..		
179	Do. do.	..	..	Do. Nadmiricodu ..	400	314	86	400	..	..		
180	Do. do.	..	..	Do. Arakur channel ..	468	384	84	468	..	..		
181	Do. do.	..	..	Do. Tail escape ..	370	124	246	370	..	..		
182	Do. do.	..	..	Do. Vutinicodu on left bank ..	430	178	252	430	..	..		
183	No. 237 I. of 23rd Mar. 1893	..	..									

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

Statement showing the principal items on which expenditure will have to be incurred												
No.	Proceedings of the M'ns Government or other authority.	Main and sub head.	Mileage.	Names of works.	Amount of sanctioned estimate.	EXPENDITURE.				Increase.	Decrease.	Remarks.
						Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	3	2	4	5	6	7	8	9	10	11	12	
214	No. 314 I. of 2nd June 1888	(2) O.	9 75	KARNATA EASTERN SECTION—cont. Ellore canal—cont. Nakkalam cattle-crossing Total (3) Main canals and branches ..	436 12,841	.. 402	436 12,439	436 12,841				Lump sum.
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.	11 70	Kannavalli channel	300	..	300	300	..	..	..	
216	No. 314 I. of 2nd June 1888	(3) B.										

310	Para. 60 of the note printed in No. 328 of 22nd Dec. 1876.	(3) C.	11 70	Kannavalli channel	..	..	..	350	..	350	..	..	Lump sum.
311	No. 328 of 22nd Dec. 1876.	..	14 30	Ungutur do. head sluice	..	..	..	2,340	..	2,340	..	..	
312	No. 226 I. of 13th Mar. 1893	..	..	Drop No. 1	..	..	..	600	..	600	..	..	
313	Do. do.	..	..	Drop " 2	..	..	..	350	..	350	..	..	
314	Do. do.	..	..	Tail escape	..	..	..	895	..	895	..	..	
315	Do. do.	..	20 41	Chirivada channel, head sluice	..	..	..	1,362	..	1,362	..	..	
316	Do. do.	..	..	Drop No. 1	..	..	..	685	..	685	..	..	
317	Do. do.	..	..	Drop " 2	..	..	..	670	..	670	..	..	
318	Do. do.	..	..	Drop " 3	..	..	..	430	..	430	..	..	
319	Do. do.	..	..	Drop " 4	..	..	..	450	..	450	..	..	
320	No. 635 I. of 9th July 1886	..	..	Minor sluice, Mupparru channel	..	..	..	390	..	390	..	..	
321	No. 314 I. of 2nd June 1888	(3) C.	39 43	Madepalli channel, under-tunnel	..	..	..	1,234	..	1,234	..	..	
322	Do. do.	..	39 54	Do. culvert	..	..	..	1,741	..	1,741	..	..	
323	Do. do.	..	39 73	Do. under-tunnel	..	..	..	1,234	..	1,234	..	..	
324	Do. do.	..	..	Do. (5) minor sluices	..	..	..	1,350	..	1,350	..	..	
325	No. 676 I. of 22nd July 1891	..	..	Water channel drop	..	..	..	390	..	390	..	..	
326	No. 897 I. of 21st Nov. 1891	..	..	Under-tunnel at 11,440 feet of Kakulapad channel	..	..	..	900	..	900	..	..	
327	Do. do.	..	..	Field masonry sluice, No. 1, left bank	..	..	..	140	..	140	..	..	
328	Do. do.	..	..	Do. " 2 do.	..	..	..	150	..	150	..	..	
329	Do. do.	..	..	Do. " 3 do.	..	..	..	180	..	180	..	..	
330	Do. do.	..	..	Do. " 4 do.	..	..	..	140	..	140	..	..	
331	Do. do.	..	..	Do. " 1, right bank	..	..	..	140	..	140	..	..	
332	Do. do.	..	..	Do. " 2 do.	..	..	..	180	..	180	..	..	
333	No. 397 I. of 2nd May 1893	..	..	Improvements to left side vent, Punakumad left side channel	..	..	..	120	..	120	..	..	
334	Do. do.	..	..	Aqueduct do. do.	..	..	..	1,730	..	1,730	..	..	
335	No. 2 I. of 4th Jan. 1893	..	..	Pelupad channel, drop No. 1	..	..	..	340	..	340	..	..	
336	Do. do.	..	..	Do. do. " 2	..	..	..	400	..	400	..	..	
337	Do. do.	..	..	Do. do. " 3	..	..	..	370	..	370	..	..	
338	Do. do.	..	30 40	Four fold masonry sluices	..	..	..	644	..	644	..	..	
339	No. 695 I. of 7th July 1893	..	..	Road culvert to Panukollu road	..	..	..	632	..	632	..	..	
340	No. 64 I. of 21st Jan. 1892	..	..	Viravalli channel, drop No. 1	..	..	..	320	..	320	..	..	
341	Do. do.	..	..	Do. do. " 2	..	..	..	320	..	320	..	..	
342	Do. do.	..	..	Do. do. " 3	..	..	..	290	..	290	..	..	
343	Do. do.	..	..	Do. field masonry sluice No. 1	..	..	..	190	..	190	..	..	
344	Do. do.	..	..	Do. do. " 2	..	..	..	210	..	210	..	..	
345	No. 481 I. of 2nd June 1893	(3) C.	38 60	Gogunta channel, head sluice	..	..	..	2,380	..	2,380	..	..	
346	Do. do.	..	..	Drop No. 1	..	..	..	620	..	620	..	..	
347	Do. do.	..	..	Do. do. " 2	..	..	..	620	..	620	..	..	
348	Do. do.	..	..	Do. do. " 3	..	..	..	630	..	630	..	..	
349	Do. do.	..	..	Do. do. " 4	..	..	..	470	..	470	..	..	
350	No. 496 I. of 6th June 1893	..	40 10	Chataparra channel, head sluice	..	..	..	1,069	..	1,069	..	..	
351	Do. do.	..	..	Drop No. 1	..	..	..	600	..	600	..	..	
352	Do. do.	..	..	Do. do. " 2	..	..	..	600	..	600	..	..	
353	Do. do.	..	23 1	Tippangugata channel, masonry works	..	..	..	..	..	3,000	..	..	
				Total	..	..	..	27,841	6,662	35,179	30,841	3,000	
354	Para. 60 of the note printed in No. 328 of 22nd Dec. 1876.	(3) L.	11 70	Kannavalli channel	..	..	..	650	..	650	..	..	Lump sum.
355	No. 328 of 22nd Dec. 1876.	..	..	Ungutur channel, excavation	..	..	..	4,660	..	4,660	..	..	
356	No. 226 I. of 13th Mar. 1893	..	14 30	Do. earthenware pipes	..	..	..	460	..	460	..	..	
357	Do. do.	..	..	Ungutur right side channel, excavation	..	..	..	60	..	60	..	..	

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.				Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.			
1	2	3	4	5	6	7	8	9	10	11	12
KISTNA EASTERN SECTION—cont.											
Ellore canal—cont.											
288	No. 226 I. of 13th Mar. 1893	..	..	Ungutur right side channel, earthenware pipes	70	..	70	70	..	..	
289	Do.	..	..	Ungutur left side channel, excavation	620	..	620	620	..	..	
290	Do.	..	..	do. earthenware pipes	140	..	140	140	..	..	
291	No. 2 I. of 4th Jan. 1892, para. 60 of the note printed in G.O.	..	..	Ponukunad channel, excavation	2,110	1,657	453	2,110	..	..	
292	No. 329 of 22nd Dec. 1876.	..	..	Do.	..	..	..	..	..	..	
293	No. 397 I. of 2nd May 1893	..	..	Do. left side channel, extension	370	..	370	370	..	..	
294	Do.	..	..	Do. earthenware pipes	100	..	100	100	..	..	
295	No. 236 I. of 13th Mar. 1893, para. 60 of the note printed in G.O.	(3) L.	20 41	Do. pailmyra spouts	30	..	15	30	..	..	
296	Para. 60 of the note printed in G.O. No. 3528 of 22nd Dec. 1876.	..	..	Chirivada channel, excavation	4,954	..	4,954	4,954	..	..	
297	Do.	..	..	Do.	..	..	..	..	..	..	
298	No. 576 I. of 22nd July 1891	..	..	Viravalli channel, box sluices and spouts	610	..	610	610	..	..	
299	Do.	..	..	Viravalli right side channel, excavation	280	..	277	280	..	..	
300	Do.	..	..	do. pailmyra spouts	20	..	20	20	..	..	
301	Do.	..	..	Kakulapad channel	1,950	1,461	489	1,950	..	..	
302	Do.	..	..	do. six box sluices	300	..	300	300	..	..	
303	No. 303 I. of 7th April 1893	..	..	Side channel to Mupparuru channel	408	..	95	408	..	..	
304	No. 644 I. of 18th Sept. 1886	..	..	Madupalli channel, extension	2,150	..	2,150	2,150	..	..	
305	Do.	..	39 11	Do. side channel	670	..	670	670	..	..	
306	Do.	..	..	Channel parallel to Ellore canal on left of do.	400	..	376	400	..	..	
307	Do.	..	..	do. on right of do.	44	..	44	44	..	..	
308	No. 448 I. of 2nd June 1893	..	39 64	Side channel right of Madupalli channel	43	..	43	43	..	..	
309	Do.	..	28 60	Gogunta channel, excavation	2,400	..	2,400	2,400	..	..	
310	Do.	..	..	do. earthenware pipes	150	..	150	150	..	..	
311	Do.	..	..	Gogunta channel, right side channel, excavation	210	..	210	210	..	..	
312	Do.	..	..	do. earthenware pipes	80	..	80	80	..	..	
313	Do.	..	..	Gogunta channel, left side channel, excavation	630	..	630	630	..	..	
314	No. 426 I. of 6th June 1893	..	..	Do. earthenware pipes	160	..	160	160	..	..	
315	Do.	..	..	Chalaparru channel, excavation	740	..	740	740	..	..	
316	No. 576 I. of 2nd July 1891	..	..	do. earthenware pipes	80	..	80	80	..	..	
317	Do.	(3) L.	..	Wattur right side channel	292	..	214	292	..	..	
318	No. 456 I. of 18th May 1893	..	..	Pednapad channel	1,500	1,297	173	1,500	..	..	
319	Do.	..	..	Do. left side channel, extension	1,377	..	1,377	1,377	..	..	
		..	..	Tippanagunta channel	..	..	2,000	2,000	2,000	..	
				Total	28,948	5,321	25,667	30,048	2,000	..	

	(3) O.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
--	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Miles.	Name of works.	Expenditure.				Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.	
1	2	3	4	5	6	7	8	9	10
363	No. 495 I. of 9th Sept. 1893	..	..	Kistna Eastern Section—cont. Ellore canal—cont. Compensation for raising the Dadamuru flood bank from Muparra to Arripala.	104	..	104	104	..
364		(4) O.	..	Ten foot bridge across drains	..	..	..	..	..
365	Para. 60 of the note printed in No. 328 of 22nd Dec. 1876.	(4) L.	27 0	Perikood drain	300	..	300	300	..
366	Do.	..	28 0	Ramileru do.	60	..	60	60	..
367	Do.	..	31 0	Punkholla do.	20	..	20	20	..
368	Do.	..	35 77	Wutur do.	300	..	300	300	..
369	Do.	..	37 10	West Tamileru drain	2,500	..	2,500	2,500	..
370	Do.	..	39 6	Jalipuli drain	300	..	300	300	..
371	Do.	..	40 40	East Tamileru drain	2,165	..	2,165	2,165	..
372	Do.	..	10 21	Nakkulam drain	425	..	425	425	..
373	No. 314 I. of 2nd June 1888	..	16 0	Kemavapalli do.	300	..	300	300	..
374	Para. 60 of the note printed in No. 328 of 22nd Dec. 1876.	..	17 0	Aratapalli do.	400	..	400	400	..
375	Do.	..	19 0	Alukur do.	400	..	400	400	..
376	Do.	..	21 20	Pattupad do.	1,352	..	1,352	1,352	..
377	No. 314 I. of 2nd June 1888	..	22 60	Amisapuram drain	830	..	830	830	..
378	Para. 64 of the note printed in No. 328 of 22nd Dec. 1876	..	24 0	Kullivaga do.	1,405	..	1,405	1,405	..
379	Do.	..	..	Consuole do.	19,120	..	19,120	19,120	..
380	No. 653 I. of 13th Nov. 1890	..	..	Within the last 3 miles of the Dadamuru	3,065	..	3,065	3,065	..
381	No. 495 I. of 9th Sept. 1893	..	..	Building flood bank to the Dadamuru	4,916	..	4,916	4,916	..
				Total	30,968	20,168	10,790	36,958	..
				Total, (4) Drainage and protective works	40,250	20,168	20,082	45,250	8,000
				Total, Ellore canal	1,22,149	31,026	1,09,223	1,39,819	10,700
				Byras canal.					
382	No. 116 I. of 12th Feb. 1885	(3) D.	..	Dumped channel	8,000	4,209	3,791	8,000	..
383	No. 314 I. of 11th May 1893	..	..	Juvannapalli branch of Kooduru channel	1,782	1,620	162	1,782	..
384	No. 408 I. of 25th July 1890	..	..	Arripala branch	1,070	..	1,070	1,070	..

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Miles.	Name of works.	Expenditure.				Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.	
1	2	3	4	5	6	7	8	9	10
385	Do.	..	..	Pamalapur branch	650	..	..	650	..
386	No. 679 I. of 31st July 1893	..	..	Thumicodu from Dumped channel	83	..	..	83	..
387	Do.	..	..	Side channel from left bank of Dumped channel at 10 miles	220	..	..	220	..
388	Do.	..	..	Left side channel of Dumped channel from below Arripala branch, head sluice.	610	..	..	610	..
				Total	11,175	8,918	2,257	11,175	..
389	Do.	..	..	Arripala Panta Cuts, head sluice	320	..	..	320	..
390	No. 305 I. of 2nd May 1893	..	..	Dam at 2 miles 8 furlongs of Noharalli cut	400	..	..	400	..
391	Do.	..	..	Dam at 6 miles 17 furlongs of do.	620	..	..	620	..
392	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	430	..	..	430	..
393	No. 306 I. of 2nd May 1893	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	300	..	..	300	..
394	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	270	..	..	270	..
395	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	300	..	..	300	..
396	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	200	..	..	200	..
397	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	2,600	..	..	2,600	..
398	No. 354 I. of 11th May 1896	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	143	..	..	143	..
399	No. 879 I. of 31st July 1893	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	800	..	..	800	..
400	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	630	..	..	630	..
401	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	1,400	..	..	1,400	..
402	Do.	..	..	Head sluice to left side channel of Dumped channel from below Arripala branch, head sluice.	630	..	..	630	..
				Total	11,175	8,918	2,257	11,175	..
403	No. 619 I. of 21th July 1893	..	..	Thumicodu	118	..	..	118	..
404	Do.	..	..	Thumicodu right side channel	140	..	..	140	..
				Total	118	..	..	118	..
405	No. 709 I. of 9th October 1892	(3) L.	..	Enlarging and improving minor channels	140	..	..	140	..
406	No. 353 I. of 8th May 1893	..	..	Thumicodu right side channel	282	..	..	282	..
407	Do.	..	..	Thumicodu right side channel	900	..	..	900	..
408	Do.	..	..	Thumicodu right side channel	8,500	..	..	8,500	..
409	No. 353 I. of 11th May 1896	..	..	Thumicodu right side channel	2,000	..	..	2,000	..
410	Do.	..	..	Thumicodu right side channel	3,000	..	..	3,000	..
411	Do.	..	..	Thumicodu right side channel	1,000	..	..	1,000	..
412	Do.	..	..	Thumicodu right side channel	443	..	..	443	..
413	Do.	..	..	Thumicodu right side channel	1,000	..	..	1,000	..
414	Do.	..	..	Thumicodu right side channel	400	..	..	400	..
415	Do.	..	..	Thumicodu right side channel	635	..	..	635	..
416	No. 679 I. of 31st July 1893	..	..	Excavating Thumicodu channel	11,040	..	..	11,040	..
417	Do.	..	..	Excavating Thumicodu channel	132	..	..	132	..
418	Do.	..	..	Excavating Thumicodu channel	21,864	..	..	21,864	..
				Total	11,040	..	..	11,040	..

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

Statement showing the principal items on which expenditure will have to be incurred														
No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.						Increase.	Decrease.	Remarks.	
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.	MA.	MS.				MA.
1	2	3	4	5	6	7	8	9	10	11	12			
KISTNA EASTERN SECTION—cont.														
Ryves canal—cont.														
419	No. 356 I. of 11th May 1884	(3) O.	..	Kundera channel, cattle ramp at Kuter	197	..	197	197	..	..	..			
420	No. 603 I. of 16th July 1891	..	..	Do. demarcation stones	330	..	330	330	..	..	..			
421	Do.	..	..	Lingavaram channel	210	..	210	210	..	..	..			
422	Do.	..	..	Ncharali cut do.	410	79	331	410	..	..	..			
423	Do.	..	..	Jayenapudi branch channel	200	..	200	200	..	..	..			
424	Do.	..	..	Desajed channel do.	800	..	800	800	..	..	..			
425	Do.	..	..	Kelavarama branch do.	200	..	200	200	..	..	..			
426	Do.	..	..	Komatiganta channel do.	240	..	240	240	..	..	..			
427	Do.	..	..	Demarcation stones for left side channel of desajed channel from below Arripala branch head sluice	27	..	27	27	..	..	..			
428	No. 603 I. of 16th July 1893	..	..	North side channel of the desajed channel from below Arripala branch head sluice	400	..	400	400	..	..	..			
429		..	..	Demarcation stones for side channel from left bank of Desajed channel at 10 miles 300 feet.	30	..	30	30	..	..	..			
430		..	..	Improvements to ranges on Desajed channel and providing formentals.	..	..	3,000	3,000	3,000	..	..			
				Total ..	2,134	79	2,213	2,213	..	..	..			
				Total (3) Distributaries ..	34,833	2,213	37,046	37,046	..	..	..			
				Total, Ryves canal ..	34,833	2,213	37,046	37,046	..	..	..			
Bank canal.														
431		(2) D.	..	Compensation ..	..	..	6,000	6,000	6,000	..	..			
				Total (2) Main canals and branches ..	..	..	6,000	6,000	6,000	..	..			
				Total, Bank canal ..	..	..	6,000	6,000	6,000	..	..			
Drain from Inampudi aqueduct to Daryappa talce.														
432	No. 962 I. of 10th Nov. 1885	(4) D.	..	Compensation for land ..	6,710	1,849	8,559	8,559	..	..	..			

|--|

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	Amount of sanctioned estimate.	Expenditure.				Increase.	Decrease.	Remarks.
						Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13
450	No. 128 I. of 5th Feb. 1884	(4) C.	..	KISTNA EASTERN SECTION—cont. Demamidi drain.	..	..	..	..	..	..	..	..
451	Superintending Engineer's No. 2953 K.S. of 7 Mar. 1893.	(4) O.	..	Outlet sluices	1,865	..	1,865	1,865	..	..	..	..
				Demarcation stones	95	..	95	95	..	..	..	..
				Total, Demamidi drain ..	1,960	..	1,960	1,960	..	..	..	..
452	No. 128 I. of 5th Feb. 1884	(4) C.	..	Peddakommilera drain.	..	..	..	..	..	..	..	..
453	Do.	..	..	Road dam	190	..	190	190	..	..	..	..
				Do.	360	..	360	360	..	..	..	..
				Total	550	..	550	550	..	..	..	..
454	Superintending Engineer's No. 2953 K.S. of 7th Mar. 1893.	(4) O.	..	Demarcation stones along Chinnakommilera drain ..	100	..	100	100	..	..	..	..
				Total, Peddakommilera drain ..	650	..	650	650	..	..	..	..
455	No. 446 I. of 18th June 1892	(4) B.	..	Pedalanka drain.	..	..	..	..	..	..	..	..
456	Do.	..	..	Pedalanka main drain	1,000	43	957	1,000	..	..	..	..
457	Do.	..	..	Utukur affluent	160	..	150	150	..	..	..	..
458	Do.	..	..	Kondangi affluent	200	..	200	200	..	..	..	..
459	Do.	..	..	Pedatumidi affluent	260	..	260	260	..	..	..	..
460	Do.	..	..	Amudalappalli do.	200	60	150	200	..	..	..	..
				Kalidindodu, now converted into a drain ..	2,130	..	2,130	2,130	..	..	..	..
				Total	3,960	93	3,867	3,960	..	..	..	..
461	No. 1005 I. of 28th Nov. 1892	(4) C.	..	Bridge on Bantamilli road across Kalidindodu drain ..	7,200	..	7,200	7,200	..	..	..	..
462	No. 546 I. of 18th June 1892 and No. 128 I. of 5th Feb. 1894.	(4) L.	..	Pedalanka main drain	66,260	63,934	2,326	66,260	..	..	..	..
463	Do.	..	..	Utukur affluent	1,310	..	1,310	1,310	..	..	..	..
464	Do.	..	..	Kondangi affluent	1,630	..	1,630	1,630	..	..	..	..
465	Do.	..	..	Pedatumidi do.	2,030	22	2,008	2,030	..	..	..	..
466	Do.	..	..	Amudalappalli do.	1,790	..	1,790	1,790	..	..	..	..
467	Do.	..	..	Kalidindodu, now converted into a drain ..	65,747	3,536	53,211	65,747	..	..	..	..
468	Do.	..	..	Pedatumidi affluent	..	..	..	..	..	..	..	..

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	Amount of sanctioned estimate.	Expenditure.				Increase.	Decrease.	Remarks.
						Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13
469		..	..	Widening Pedalanka drain from Korukollu to the Upper terrace.	..	..	..	..	..	..	..	..
470	No. 546 I. of 18th June 1892	(4) O.	..	Total	1,18,707	64,500	1,07,207	1,63,707	46,000	..	..	..
471	Do.	..	..	Cattle ramps along main drain	415	..	415	415	..	..	..	..
472	Do.	..	..	Do.	1,000	..	1,000	1,000	..	..	..	..
473	Do.	..	..	Bench mark stones for do.	160	32	128	160	..	..	..	..
474	Do.	..	..	Do.	210	..	210	210	..	..	..	..
475	Do.	..	..	Kalidindi drain	..	..	..	..	..	..	..	..
476	Do.	..	..	Utukur affluent	77	..	77	77	..	..	..	..
477	Do.	..	..	Kondangi do.	68	..	68	68	..	..	..	..
478	Do.	..	..	Pedatumidi do.	104	..	104	104	..	..	..	..
				Do.	99	..	99	99	..	..	..	..
				Amudalappalli do.	12	..	12	12	..	..	..	..
				Total	2,145	32	2,113	2,145	..	..	..	..
479	No. 179 I. of 26th Feb. 1883	(4) B.	..	Total, Pedalanka drain ..	1,32,012	66,626	1,20,387	1,77,012	46,000	..	..	..
480	Do.	..	..	Isakaparra affluent	946	265	680	946	..	..	..	..
481	Do.	..	..	Compensation for land	1,990	..	1,990	1,990	..	..	..	..
482	No. 3169 K.S. of 22nd Mar. 1893.	..	..	Pokiparra affluent	140	..	140	140	..	..	..	..
	No. 3028 K.S. of 27th June 1893.	..	..	Venuturumalli do.	465	..	465	465	..	..	..	..
				Total	3,540	265	3,275	3,540	..	..	..	..
483	No. 179 I. of 26th Feb. 1883	(4) C.	..	Masonry works	17,412	..	17,412	17,412	..	..	..	..
484	No. 3169 K.S. of 22nd Mar. 1893.	(4) L.	..	Dokiparra affluent	210	..	210	210	..	..	..	..
485	No. 3226 K.S. of 27th Mar. 1894.	..	..	Venuturumalli affluent	1,179	..	1,179	1,179	..	..	..	..
486	No. 179 I. of 26th Feb. 1883	(4) L.	..	Improvements	69,559	..	69,559	69,559	..	..	..	..
				Total	80,948	..	80,948	80,948	..	..	..	..
487	Do.	..	..	Cattle-crossing	5,576	..	5,576	5,576	..	..	..	..
				Total, Lankabanda drain ..	87,476	265	87,211	87,476	..	..	..	..
488	Appendix D. of No. 161 I. of 28th Feb. 1892.	(4) B.	..	Saltanagarum drain.	..	..	..	..	..	..	..	..
				Compensation for land	412	..	412	412	..	..	..	..
489	Do.	..	..	Earthwork	2,415	..	2,415	2,415	..	..	..	..
				Total, Sultanagarum drain ..	2,827	..	2,827	2,827	..	..	..	..
490	Superintending Engineer's No. 3089 K.S. of 10th Mar. 1891.	(4) B.	..	Kanadavelli drain.	..	..	..	..	..	..	..	..
				Compensation for land	3,720	1,844	876	3,720	..	..	..	..

11TH OCTOBER 1903, No. 857 I., PUBLIC WORKS.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Name of works.	Expenditure.					Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1		3	4		5	7	8	9	10	11	12	
				Kiara Poreen Section—cont.								
				Kandavali drain—cont.								
491	Superintending Engineer's No. 409 K. H. of 10th Mar. 1901.			Reclaiming bund on the land side ..	670	..	670	670	..	..	..	
492	No. 767 I. of 2nd Sept. 1902			Compensation for widening and improving ..	273	..	273	273	..	..	..	
				Total ..	2,653	1,416	1,237	3,890	..	..	..	
493	Do. do.			Building dry stone intake ..	1,110	977	173	1,150	..	..	..	
494	No. 767 I. of 2nd Sept. 1902			Demolishing and reconstructing Inamjetti bridge ..	900	..	900	900	..	..	..	
				Improving the deep wall of Inamjetti aqueduct ..	30	..	30	30	..	..	..	
				Total ..	1,540	977	603	1,540	..	..	..	
495	Do. do.			Widening and improving ..	4,400	..	4,400	4,400	..	..	..	
496	No. 141 I. of 10th Mar. 1900			Demarcation stone ..	1,037	..	1,037	1,037	..	..	..	
497	No. 167 I. of 2nd Sept. 1902			Do. ..	197	..	197	197	..	..	..	
498	Do. do.			Total ..	1,354	..	1,354	1,354	..	..	..	
				Total, Kandavali drain ..	10,897	2,821	8,076	10,897	..	..	..	
				Other work.								
499	Appendix D. of 181 I. of 29th Feb. 1902.			Compensation for land ..	875	..	875	875	..	..	..	Lamp sum.
500	Do. do.			Masonry works ..	1,800	..	1,800	1,800	..	..	..	Do.
501	Do. do.			Earthwork ..	8,625	..	8,625	8,625	..	..	..	
				Total, Golder camp ..	7,800	..	7,800	7,800	..	..	..	
				Elimali drain.								
502	No. 2033 K. H. of 7th Mar. 1902.			Demarcation stone ..	20	..	20	20	..	..	..	
				Total, Kiara Eastern section ..	9,98,723	2,82,472	8,82,918	11,20,372	..	..	..	

11TH OCTOBER 1903, No. 857 I., PUBLIC WORKS.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Name of works.	Expenditure.					Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1		3	4		5	7	8	9	10	11	12	
				Kiara Western Section.								
				Main canal.								
503	No. 973 I. of 4th Nov. 1901 and No. 423 I. of 10th May 1902.			Widening main canal ..	8,65,657	2,100	4,10,112	1,35,438	8,66,657	..	..	
504	No. 315 K. H. of 6th May 1902.			Tramway and wharf wall from left wing wall of Kiara main canal ..	8,67,757	..	4,30,672	1,37,195	8,67,757	..	..	
				Total ..	3,100	..	3,100	3,100	..	..	..	
505	No. 973 I. of 4th Nov. 1901 and No. 317 I. of 22nd Mar. 1902			Concrete block retaining wall round the island separating the head sluice at Bithasagaram from the head sluice.	3,464	..	..	3,464	3,464	..	..	
506	No. 973 I. of 4th Nov. 1901 and No. 317 I. of 22nd Mar. 1902			Total ..	8,71,221	..	4,30,672	1,40,619	8,71,221	..	..	
				Total (2) Main canal and branches ..	810	..	..	810	810	..	..	
507	Superintending Engineer's No. 2756 K. H. of 13th Feb. 1902.			Head sluice to Isani branch channel ..	810	..	..	810	810	..	..	
				Total (1) Distributaries ..	8,74,031	..	4,30,672	1,41,419	8,74,031	..	..	
				Total, Main canal ..	8,74,031	..	4,30,672	1,41,419	8,74,031	..	..	
				Kandavali drain.								
508	No. 834 I. of 23rd Sept. 1902			Bridge on Tandula road ..	8,300	..	..	8,300	8,300	..	..	
509	Do. do.			Do. at Tandula ..	..	..	..	..	..	..	..	
510	No. 834 I. of 23rd Sept. 1902			Permanent sluice for head sluice establishment ..	19,035	..	..	19,035	19,035	..	..	
511	No. 834 I. of 23rd Sept. 1902			Improvements to the canal ..	1,400	..	..	1,400	1,400	..	..	
				Total (2) Main canal and branches ..	400	..	..	400	400	..	..	
512	No. 404 I. of 8th May 1902			Compensation for land for head sluice channel extension ..	1,800	..	..	1,800	1,800	..	..	
513	Do. do.			Do. ..	..	..	..	..	..	..	..	
514	No. 404 I. of 8th May 1902			East side channel, head sluice improvements ..	3,554	..	..	3,554	3,554	..	..	
515	No. 404 I. of 8th May 1902			Bridge across west side channel, Tandula road ..	1,303	..	..	1,303	1,303	..	..	
516	No. 404 I. of 8th May 1902			Do. do. do. ..	..	..	..	..	..	..	..	
517	No. 404 I. of 8th May 1902			West side channel extension—	..	..	..	..	..	..	..	
518	No. 404 I. of 8th May 1902			Aqueduct ..	..	..	..	..	..	..	..	
519	No. 404 I. of 8th May 1902			Drop ..	..	..	..	..	..	..	..	
520	No. 404 I. of 8th May 1902			West side branch channel, head sluice ..	..	..	..	..	..	..	..	

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

Statement showing the progress of works.												
No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	Amount of sanctioned estimate.	EXPENDITURE.				Increase.	Decrease.	Remarks.
						Expenditure incurred to end of 1892-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	
KUTTA WESTERN SECTION—cont.												
Nizampetam canal—cont.												
620	Para. 10 of the note printed in No. 3573 of 19th Dec. 1874, and N. E. S. No. 784 K.S. of 6th July 1891.	..	..	Minor masonry sluices in the 1st reach of west side channel ..	1,680	16	6,665	6,680	4,000	..	Lump sum.	
621		..	..	Masonry works on west side channel ..	..	..	6,000	6,000	6,000	..	..	
622		..	..	Do. on east do. ..	..	..	6,000	6,000	6,000	..	..	
623		..	..	Minor masonry sluices on east side channel ..	..	..	10,000	10,000	10,000	..	..	
				Total ..	13,839	2,495	37,344	39,839	26,000	..	..	
624	Para. 10 of the note printed in No. 3573 of 19th Dec. 1874 and G.O. No. 404 I. of 6th May 1893.	(3) L.	..	West side channel extension ..	3,340	..	3,340	3,340	..	..	..	
625	Do.	..	..	Do. branch channel ..	1,540	..	1,540	1,540	..	..	..	
626	Do.	..	..	Improvements to east side channel ..	..	..	15,000	15,000	15,000	..	..	
627	Do.	..	..	Do. west do. ..	..	..	15,000	15,000	15,000	..	..	
				Total ..	4,880	..	34,880	34,880	30,000	..	..	
628	Para. 10 of the note printed in No. 3573 of 19th Dec. 1874 and G.O. No. 404 I. of 6th May 1893.	(3) O.	..	West side channel extension demarcation stones ..	330	..	330	330	..	..	..	
629		..	..	Do. branch channel ..	140	..	140	140	..	..	..	
				Total ..	470	..	470	470	..	..	..	
				Total (3) Distributaries ..	20,989	2,495	74,494	76,989	66,000	..	..	
				Total, Nizampetam canal ..	40,024	2,495	1,09,129	1,11,624	71,600	..	..	
Bank canal.												
630	Para. 16 of the note printed in No. 3573 of 19th Dec. 1874.	(2) D.	..	Head sluice improvements ..	3,390	..	3,390	3,390	..	..	..	
631	Do.	(2) F.	..	Inlets near Vallabhapuram ..	7,275	..	7,275	7,275	..	..	..	

632	G.O. No. 258 I. of 22nd April 1893.	(2) F (1)	33 5½	Syphon sluice ..	3,320	..	3,320	3,320	..	..	..
633	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874.	(3) H.	..	Kollipara surplus weir channel ..	2,865	..	2,865	2,865	..	..	..
634	E. Y. No. 105 K.S. of 8th Nov. 1892 and No. 628 I. of 13th June 1892.	(2) I.	..	Head lock improvements ..	800	..	800	800	..	..	..
635	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874.	..	..	Tidal lock ..	26,620	..	26,620	26,620	..	..	..
636	Do.	..	..	Do. weir at Adivipalem ..	8,700	2,283	6,417	8,700	..	..	..
637	No. 360 I. of 24th April 1893	..	..	Permanent sheds for lock establishment ..	..	..	7,440	7,440	7,440	..	..
		..	..	Total ..	36,820	2,283	40,977	43,260	7,440	..	..
638	No. 283 I. of 12th May 1898	(2) L.	..	Bank canal improvements ..	1,13,715	86,039	47,676	1,13,715	..	..	..
639	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874 and E. Y. Memo. No. 28 K.S. of 7th Feb. 1899.	(2) O.	..	Ramps ..	970	..	970	970	..	..	..
640	Do.	..	..	Eight cattle crossings ..	8,780	2,150	6,630	8,780	..	..	..
641	Superintending Engineer's No. 2817 K.S. of 8th Feb. 1891.	..	..	Fixing demarcation stones on both sides of Bank canal ..	2,200	1,029	1,171	2,200	..	..	..
642		..	..	Eight additional cattle crossings ..	..	..	6,250	6,250	6,250	..	..
				Total ..	11,960	4,179	14,021	18,200	6,250	..	..
				Total (2) Main canals and branches ..	1,76,336	72,601	1,19,654	1,92,025	13,690	..	..
643	Superintending Engineer's No. 1455 K.S. of 19th Sept. 1892.	(3) A.	..	Granite bench mark stones at south end of north and south lines of Vallatur block under Vallatur channel.	250	37	213	250	..	..	..
644	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874.	(3) B.	..	Kollur channel ..	940	..	940	940	..	..	..
645	Do.	..	..	Vallatur channel ..	870	..	870	870	..	..	..
646	Do.	..	..	Teodrapalem branch ..	685	..	685	685	..	..	..
647	Do.	..	..	Kuchanapudi north channel ..	805	..	805	805	..	..	..
648	Do.	..	..	Do. channel extension ..	715	..	715	715	..	..	..
649	Do.	..	..	Edupalli channel ..	715	..	715	715	..	..	..
650	Do.	..	..	Do.	695	..	695	695	..	..	..
651	Do. and No. 227 I. of 9th March 1891.	..	..	Do.	1,070	..	1,070	1,070	..	..	..
652	Do.	..	..	Do.	190	..	190	190	..	..	..
653	No. 637 I. of 6th June 1884	..	..	Do.	129	23	106	129	..	..	..
654	Do.	..	..	Do.	100	27	73	100	..	..	..
655	Do.	..	..	Do.	124	26	98	124	..	..	..
				Total ..	6,638	76	6,462	6,538	..	..	..
656	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874.	(3) C.	..	Kollipara channel ..	705	..	705	705	..	..	..
657	Do.	..	..	Kollur side channel ..	640	..	640	640	..	..	..

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.				Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expendi- ture incurred to end of 1892-93.	Further expendi- ture.	Total.			
1		3	4	5	6	7	8	9	10	11	12
KUTNA WESTERN SECTION—cont.											
Bank canal.											
558	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874.	..	..	Kollar channel ..	1,920	..	1,920	1,920	..	..	..
559	Do. do.	..	..	Vellatur channel ..	1,600	..	1,600	1,600	..	..	..
560	Do. do.	..	..	Do. side channel ..	450	..	450	450	..	..	..
561	Do. do.	..	..	Vemavaram do. ..	700	..	700	700	..	..	..
562	Do. do.	..	..	Jagajjuru channel ..	900	..	900	900	..	..	..
563	Do. and Superintendent Engineer's No. 2917 K.N. of 2nd May 1892.	..	..	Aravapalli do. ..	440	335	105	440	..	..	..
564	Do. do.	..	..	Ullipalem do. ..	3,030	291	2,639	3,030	..	..	..
565	Do. do.	..	..	Altharri do. ..	3,415	684	3,231	3,415	..	..	..
566	Do. do.	..	..	Kuchinapudi do. ..	270	102	168	270	..	..	..
567	No. 227 I. of 9th March 1891	..	1	Nallur channel ..	260	99	161	260	..	..	..
568	Do. do.	..	..	Do. drop 100 feet below	13,534	..	13,534	13,534	..	..	Lump sum.
569	No. 537 I. of 6th June 1894	..	..	Minor channels ..	31,769	2,025	29,744	31,769	..	..	..
Total ..					72,462	3,916	68,546	72,462	..	..	..
570	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874.	(3) L.	..	Kollar channel ..	6,370	..	6,370	6,370	..	..	..
571	Do. do.	..	..	Vellatur channel ..	16,720	..	16,720	16,720	..	..	..
572	Do. do.	..	..	Jagajjuru do. ..	2,110	..	2,110	2,110	..	..	..
573	Do. do.	..	..	Jankapalli do. ..	19,340	734	18,596	19,340	..	..	..
574	Do. do.	..	..	Aravapalli do. ..	2,465	..	2,465	2,465	..	..	..
575	Do. do.	..	..	Ullipalem do. ..	3,430	..	3,430	3,430	..	..	..
576	Do. do.	..	..	Altharri do. ..	2,720	..	2,720	2,720	..	..	..
577	Do. do.	..	..	Kuchinapudi channel ..	2,635	..	2,635	2,635	..	..	..
578	Do. and No. 246 I. of 13th Mar. 1891 and No. 733 I. of 21st Sept. 1891.	..	..	Nallur channel ..	1,400	1,023	377	1,400	..	..	..
579	Do. do.	..	..	Do. No. 1 branch	1,010	..	1,010	1,010	..	..	..
580	Do. do.	..	..	Do. No. 2 do.	200	..	200	200	..	..	..
581	Para. 15 of the note printed in No. 3573 of 19th Dec. 1874 and No. 227 I. of 9th Mar. 1891.	..	..	Potameraka channel ..	4,120	2,159	1,961	4,120	..	..	..
582	No. 537 I. of 6th June 1894	..	..	Minor channels ..	9,862	..	9,862	9,862	..	..	Lump sum.
Total ..					72,462	3,916	68,546	72,462	..	..	..

583	No. 246 I. of 13th Mar. 1891	(3) O.	..	Nallur channel demarcation stones	..	..	..	..	..	..	..	..
584	Do. do.	..	..	Do. No. 2 branch do.	..	..	..	..	..	..	..	..
				Total ..	210	41	169	210	..	..	..	..
				Total (3) Distributaries ..	1,11,229	6,005	105,134	1,11,229	..	..	..	..
				Total, Bank canal ..	2,89,664	78,596	224,668	3,03,254	..	..	..	..
Commamur canal.												
585	No. 124 I. of 9th Feb. 1895	(2) B.	..	1st, 2nd and 3rd reaches	12,428	..	12,428	12,428	..	..	..	..
586	Do. do.	..	..	New cut from the Gunter sallah to the culvert	975	..	975	975	..	..	..	..
587	Do. do.	..	..	Vejendia quarries ..	170	..	170	170	..	..	..	..
588	Do. do.	..	..	Apparu outfall channel ..	720	..	720	720	..	..	..	..
589	Do. do.	..	..	Stop bank between Allera and Apparu	900	..	900	900	..	..	..	..
590	Do. do.	..	..	Emilera diversion bank ..	16,068	..	16,068	16,068	..	..	..	..
				Total ..	22,670	..	22,670	22,670	..	..	..	..
591	No. 797 I. of 9th Oct. 1892	(2) F.	..	Nakharanga aqueduct	..	..	..	..	..	..	..	..
592	Do. do.	..	..	Surplus water to Kullimera aqueduct	..	..	..	..	..	..	..	..
593	Do. do.	..	..	Kullimera new aqueduct ..	..	..	..	..	..	..	..	..
594	Do. do.	..	..	Pondirup aqueduct ..	..	..	..	..	..	..	..	..
595	Do. do.	..	..	Widening Allera surplus sluice	380	..	380	380	..	..	..	..
596	No. 797 I. of 9th Oct. 1892	..	..	Apparu inlet ..	2,000	2,178	82	2,000	..	..	..	..
597	No. 429 I. of 4th May 1892	..	..	Inlet and outlet below Jahollia bridge	26,010	2,178	1,08,552	1,08,730	..	..	..	..
				Total ..	610	156	364	610	..	..	..	..
598	Superintending Engineer's No. 2649 K.N. of 7th Mar. 1892.	(2) F. (1)	..	Constructing stone drain in left bank of Commamur canal ..	2,600	..	2,600	2,600	..	..	..	..
599	No. 406 I. of 6th May 1893	(2) I.	..	Reconstructing and extending revetment in rear of Kullimera weir.	..	..	..	..	..	..	..	..
600	Do. do.	(2) I.	..	Permanent abutment for lock establishment	..	..	..	..	..	..	..	..
601	Do. do.	..	..	bania river wharf ..	2,600	..	2,600	2,600	..	..	..	..
				Total ..	68,379	..	68,379	68,379	..	..	..	..
602	No. 727 I. of 9th Oct. 1892	(2) L.	..	Improvements to 1st reach	..	..	..	..	..	..	..	..
603	Do. do.	..	..	Do. 2nd do.	..	..	..	..	..	..	..	..
604	Do. do.	..	..	Do. 3rd do.	..	..	..	..	..	..	..	..
605	Do. do.	..	..	Do. 4th do.	..	..	..	..	..	..	..	..
606	Do. do.	..	..	Do. 5th do.	..	..	..	..	..	..	..	..
607	Do. do.	..	..	Cost of original line from Finsigidibba to Romperu	16,202	..	16,202	16,202	..	..	..	..
608	Do. do.	..	..	Netty supervising at 5 per cent.	8,017	..	8,017	8,017	..	..	..	..

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.				Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.			
1	2	3	4	5	6	7	8	9	10	11	12
609		..	..	KUTNA WESTERN SECTION—cont. Commencement canal—cont.	..	..	..	..	..	..	..
610	No. 359 I. of 24th April 1893	..	21 to 27	Contingencies	5,345	..	..	..	..	..	Balance Rs. 35,260 not required and surrendered.
611	No. 797 I. of 9th Oct. 1892	(3) R.	7 60	Constructing reftment to left slope ..	2,80,500	2,34,235	11,093	2,45,330	..	35,260	
612	Do. do.	..	..	Total ..	2,86,000	2,34,235	16,595	2,50,830	..	35,260	
613	No. 612 I. of 12th July 1893	(3) B.	23 13	Left bank Tungabhadra side channel ..	3,31,275	2,50,500	1,50,068	4,80,568	1,01,660	35,260	
614	Do. do.	..	..	Pundia channel ..	2,470	1,940	630	2,470	..	..	
615	Do. do.	..	..	Do. first east branch ..	1,400	32	468	1,600	..	..	
616	Do. do.	..	..	Do. first west ..	600	..	600	600	..	..	
617	No. 343 I. of 24th Sept. 1887	(3) C.	7 60	Cherukur channel ..	700	..	700	700	..	..	
618	Do. do.	..	..	Do. minor channel ..	230	..	230	230	..	..	
619	Do. do.	..	..	Total ..	8,100	1,972	8,128	9,100	..	..	Lump sum.
620	Do. do.	..	..	Tungabhadra side channel, head sluice ..	1,360	..	1,354	1,360	..	..	Do.
621	Do. do.	..	..	Do. bridge at Tinnai road and elsewhere ..	9,150	..	9,150	9,150	..	..	
622	Do. do.	..	..	Do. Arcuanda sluice ..	810	..	650	630	..	..	
623	No. 343 I. of 24th Sept. 1887	..	..	Do. aqueduct ..	2,000	..	6,000	6,000	..	..	Lump sum.
624	No. 620 I. of 13th June 1895	..	8 30	Do. Alambala sluice ..	109	..	1,400	1,500	..	..	
625	Do. do.	..	..	Do. minor channels ..	2,000	..	2,000	2,000	..	..	
626	Do. do.	..	13 30	Yellapalli channel, Tail escape ..	630	..	85	630	..	..	
627	Do. do.	..	..	Chelavale do. head sluice ..	130	..	180	150	..	..	
628	Do. do.	..	..	Do. minor channel and sluice ..	400	..	400	400	..	..	
629	Do. do.	..	..	Do. tail escape weir ..	350	..	350	350	..	..	
630	Do. do.	..	..	Do. minor channels ..	200	..	200	200	..	..	
631	Do. do.	..	21 10	Commencement tank supply channel, minor channels ..	900	..	900	900	..	..	
632	Do. do.	..	23 10	Pundia channel, head sluice ..	2,040	..	2,040	2,040	..	..	
633	Do. do.	..	..	Appicalla channel do. ..	600	..	600	600	..	..	
634	Do. do.	..	..	Ilavanappa do. do. ..	600	..	600	600	..	..	
635	Do. do.	..	..	Tail escape weir ..	630	..	630	630	..	..	
636	Do. do.	..	23 70	Minor channels ..	800	..	800	800	..	..	
637	Do. do.	..	..	Minor side channel head sluice ..	400	..	400	400	..	..	Lump sum.
638	Do. do.	..	..	Minor channels ..	200	..	200	200	..	..	

Bapatla channel.												
No. 612 I. of 12th July 1893	(3) C.	29 17	Dividing sluice for first east and west branches Head sluice to Kunkatapalem branch Do. to Mulapalem do. Do. to Cherukur channel Bapatla first west branch, tail escape weir Drop at 2.5 mile and 410 feet of Mulapalem No. 1 sluice at 9.2 mile of Kunkatapalem branch " 2 do. at 6 mile of do. " 3 do. at 1-4/5 mile of do. " 1 do. at 0-1 mile and 66 feet of Mulapalem branch. " 2 do. at 1-1/2 and 396 " of do. " 3 do. at 2-0 " and 396 " of do. " 4 do. at 2-6 " and 396 " of do.	2,950 1,330 1,790 760 440 720 300 690 620 600 690 620 630		2,950 1,330 1,790 760 440 720 300 690 620 600 690 620 630		30	39,539	39,569	6,500	Lump sum. Do. Do. Do. Do. Do.
Total ..												
No. 797 I. of 9th Oct. 1892	(3) L.	7 60	Tungabhadra side channel .. Do. minor do. .. Chebroin do. channels .. 13 30 Mannava channel .. 21 20 Commensur tank supply channel .. 23 10 Pundia channel .. Do. minor channels .. 23 70 Roller channel minor channels .. 27 17 Bapatla channel from head to 6 furlongs 1,960 feet Do. from 0-6 to 2 miles and 260 feet Bapatla minor channels .. Do. 1st west branch .. Do. 1st west do. .. Do. Mulapalem branch .. Do. Kunkatapalem branch .. Do. Cherukur channel ..	8,650 4,100 300 600 1,800 7,450 1,700 600 1,960 1,630 6,000 2,880 2,800 6,080 3,140 150		8,650 4,100 300 600 1,800 7,450 1,700 600 1,960 1,630 6,000 2,880 2,800 6,080 3,140 150		30 <td>39,539<td>39,569<td>6,500<td>Lump sum. Do. Do. Do. Do. Do.</td></td></td></td>	39,539 <td>39,569<td>6,500<td>Lump sum. Do. Do. Do. Do. Do.</td></td></td>	39,569 <td>6,500<td>Lump sum. Do. Do. Do. Do. Do.</td></td>	6,500 <td>Lump sum. Do. Do. Do. Do. Do.</td>	Lump sum. Do. Do. Do. Do. Do.
Total ..												
No. 797 I. of 9th Oct. 1892	(3) O.	..	Tungabhadra side channel, seven cattle crossings Bapatla channel, Kunkatapalem branch— No. 1 cattle crossing at 5 1/2 furlongs .. " 2 do. at 1 mile 1/2 furlong .. " 3 do. at 1 " 4 furlongs .. " 4 do. at 2 miles 1/2 furlongs .. Bapatla channel, Mulapalem branch— No. 1 cattle crossing at 2 miles 6 furlongs .. " 2 do. at 4 " 1 furlong .. " 3 do. at 4 " 6 furlongs .. Demarcation stones for Bapatla channel .. Do. for Kunkatapalem branch .. Do. for Kunkatapalem branch ..	2,000 650 480 620 640 910 960 1,010 170 270 330		2,000 650 480 620 640 910 960 1,010 170 270 330		..	48,880 <td>48,810<td>6,000<td>Lump sum.</td></td></td>	48,810 <td>6,000<td>Lump sum.</td></td>	6,000 <td>Lump sum.</td>	Lump sum.
Total ..												
No. 612 I. of 12th July 1893	..	..	No. 797 I. of 9th Oct. 1892	2,000	..	2,000	2,002	1,05,217	1,07,219	11,500	..	

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.						Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1892-93.	Further expenditure.	Total.	Increase.	Decrease.	
1	2	3	4	5	6	7	8	9	10	11	12
KIARNA WARREN SECTION—cont.											
677	Superintending Engineer's No. 118 K.S. of 12th April 1890.	(4) C.	..	Compensation for land ..	..	..	..	..	..	..	..
678	Superintending Engineer's No. 3061 K.S. of 11th March 1893.	(4) L.	..	Cutting approach of Nakkavagu straight to the aqueduct.	144	78	66	144	..	..	..
				Total, Gunjur nallah ..	760	..	760	760	..	..	..
679	Superintending Engineer's No. 2422 K.S. of 31st Dec. 1890, and No. 1624 K.S. of 9th Oct. 1891, and No. 1058 I. of 16th Dec. 1892.	(4) A.	..	Total, Commamur canal ..	904	78	826	904	..	..	..
				Establishment for surveying and levelling boundary mark stouces.	4,27,901	2,52,580	2,50,111	6,08,691	1,56,010	35,260	..
680	No. 839 I. of 8th Nov. 1893	(4) B.	..	Repalle drain ..	..	..	..	..	..	..	..
681	Do. do.	..	..	Nandivelligu affluent ..	18,300	2,390	15,910	18,300	..	..	..
682	Do. do.	..	..	Jaggadigunta do. ..	600	..	600	600	..	..	..
683	Do. do.	(4) B.	..	Gundara do. ..	210	..	210	210	..	..	..
684	Do. do.	..	..	Nagaram do. ..	960	..	960	960	..	..	..
				Total ..	810	..	810	810	..	..	..
685	Do. do.	(4) C.	20	Bridge ..	20,880	2,390	18,490	20,880	..	..	..
686	Do. do.	..	..	Do. ..	7,430	..	7,430	7,430	..	..	..
				Total ..	7,430	..	7,430	15,000	15,000	..	..
687	No. 849 I. of 8th Nov. 1893	(4) L.	..	Repalle drain ..	7,430	..	22,430	22,430	15,000	..	..
688	Do. do.	..	..	Nandivelligu affluent ..	1,42,700	1,07,008	65,692	1,72,700	30,000	..	..
689	Do. do.	..	..	Jaggadigunta do. ..	2,010	1	2,019	2,010	..	..	..
				Total ..	1,760	1	1,759	1,760	..	..	..
690	Do. do.	..	..	Gundara affluent ..	9,390	..	9,390	9,390	..	..	..
691	Do. do.	..	..	Nagaram do. ..	4,826	..	4,826	4,826	..	..	..
				Total ..	1,60,726	1,07,010	83,718	1,90,726	30,000	..	..
				Total, Repalle drain ..	1,89,366	1,09,400	1,24,966	2,54,366	45,000	..	..

692		(4) B.	..	Bhattiprolu drain ..	..	..	5,000	5,000	..	..	Lump sum.
693	Appendix D printed in No. 181 I. of 28th Feb. 1892.	(4) L.	..	Earthwork ..	28,166	..	48,166	48,166	20,000	..	Do.
694	Do. do.	(4) O.	..	Miscellaneous works ..	2,439	..	2,439	2,439	..	..	..
695	Superintending Engineer's No. 1495 K.S. of 15th Sept. 1892.	..	..	Granite bench mark stones along Gundara-Bhattiprolu drain.	170	25	145	170	..	..	..
				Total ..	2,609	25	2,584	2,609	..	..	..
696		(4) C.	..	Aqueduct ..	30,775	..	65,760	65,775	25,000	..	..
697		(4) L.	..	Earthwork ..	..	..	6,000	6,000	6,000	..	..
				Total, Pedapalli drain ..	..	..	10,000	10,000	10,000	..	..
698	No. 988 I. of 8th Nov. 1893	(4) C.	..	Bridge at 4 miles ..	6,740	..	6,740	6,740	..	..	..
699	Do. do.	(4) L.	..	Earthwork ..	6,801	..	6,801	6,801	..	..	..
				Total, Nizampetam drain ..	13,541	..	13,541	13,541	..	..	..
700	Superintending Engineer's No. 2422 K.S. of 31st Dec. 1890.	(4) A.	..	Survey establishment for Tenali affluent ..	330	2	328	330	..	..	..
701	No. 447 I. of 16th Jan. 1894 and No. 447 I. of 9th May 1892.	(4) B.	..	Main drain ..	2,500	2,731	769	2,500	..	..	..
702	No. 447 I. of 9th May 1892.	..	..	Tenali affluent ..	12,160	..	12,160	12,160	..	..	..
703	No. 409 I. of 27th Aug. 1888	..	..	Nallamada affluent ..	3,000	2,428	772	3,000	..	..	..
				Total ..	18,650	4,959	13,691	18,650	..	..	..
704	Appendix D printed in No. 181 I. of 28th Feb. 1892 and No. 447 I. of 9th May 1892.	(4) C.	..	Masonry works ..	62,176	..	1,80,000	1,80,000	1,17,826	..	Lump sum.
705	Do. do.	..	16 41	Rolling iron-girder bridge near Ponnur ..	11,600	2,443	9,157	11,600	..	..	..
				Total ..	73,776	2,443	1,89,157	1,91,600	1,17,826	..	..
706	No. 99 I. of 2nd Feb. 1885 and No. 447 I. of 9th May 1892.	(4) L.	..	Excavating main drain ..	2,01,111	95,264	1,80,867	2,76,111	75,000	..	..
707	No. 449 I. of 27th Aug. 1888	..	..	Nallamada affluent ..	1,82,046	92,712	59,363	1,82,064	20,000	..	..
708	No. 447 I. of 9th May 1892	..	..	Tenali affluent ..	66,668	6,337	60,321	66,668	..	..	..

Statement showing the principal items on which expenditure will have to be incurred after 31st March 1893 in completing Delta works, II Circle—cont.

No.	Proceedings of the Madras Government or other authority.	Main and sub head.	Mileage.	Names of works.	EXPENDITURE.					Increase.	Decrease.	Remarks.
					Amount of sanctioned estimate.	Expenditure incurred to end of 1897-93.	Further expenditure.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	
KISTNA WESTERN SECTION—cont.												
Tungabhadra drain—cont.												
709	No. 447 I. of 9th May 1892	..	..	Kandera affluent ..	13,751	..	13,751	13,751	..	..	..	
710	Do. do.	..	..	Kollimera affluent ..	1,25,185	..	1,25,185	1,25,185	..	..	..	
711	Do. do.	..	..	Doppalapudi affluent ..	6,510	..	6,510	6,510	10,000	..	..	
712	Do. do.	..	..	Pundia affluent ..	45,600	..	45,600	45,600	..	..	..	
713	No. 99 I. of 2nd Feb. 1898	(4) O.	..	Total ..	6,79,880	1,91,303	4,90,577	6,81,880	1,05,000	..	..	
714	Do. and No. 447 I. of 9th May 1892.	..	..	Wooden gauges of main drain ..	420	..	..	..	..	..	..	
715	No. 447 I. of 9th May 1892	..	..	Bench mark stones for do. ..	316	..	..	..	..	..	..	
716	Do. do.	..	..	Furlong stones for main drain ..	300	1,060	2,329	3,389	..	..	..	
717	Do. do.	..	..	Stone stones for do. ..	150	..	..	..	..	..	..	
718	Do. do.	..	..	Four ramps for do. ..	2,000	..	..	..	..	..	..	
719	Do. do.	(4) O.	..	Demarcation stones for main drain ..	305	..	..	..	..	..	..	
			..	Bench mark stones for Tenali affluent ..	2,892	81	2,811	2,892	..	..	..	
				Total ..	6,281	1,141	5,140	6,281	..	..	..	
				Total, Tungabhadra drain ..	6,79,916	2,02,848	6,98,893	9,01,741	2,22,826	..	..	
Rompura drain.												
720	No. 286 I. of 3rd Sept. 1877	(4) B.	..	Compensation for land ..	1,000	..	1,000	1,000	..	..	..	
721	Do. do.	..	..	Parachuravagu ..	600	..	600	600	..	..	..	
			..	Total ..	1,500	..	1,500	1,500	..	..	..	
722		(4) C.	..	Bridge ..	..	..	15,000	15,000	15,000	..	..	
723	No. 286 I. of 3rd Sept. 1877, No. 16 I. of 10th Jan. 1877, and No. 377 I. of 12th August 1889.	(4) L.	..	Rompura drain ..	..	..	..	..	..	..	..	
724	No. 386 I. of 3rd Sept. 1877	..	..	Repeta affluent ..	98,900	66,497	33,403	98,900	..	..	..	
725	Do. do.	..	..	Parachuravagu ..	14,800	..	14,800	14,800	..	..	..	
			..	Total ..	16,190	..	16,190	16,190	..	..	..	

Abstract of Statement II.

Total amount provided for works (column 9 of statement II)	Rs.	40,99,345
Outlay to end of 1892-93 (column 9 of statement I)	..	76,92,184
Deduct outlay incurred against current operations (column 7 of statement II)	..	14,36,792
Balance available for unforeseen works	..	82,66,322
Total, I works ..	..	1,07,30,994

(Signed) J. W. MARTIN,
Superintending Engineer, II Circle.

STATEMENT showing the amount of the Kistna Delta completion estimates by Main and Sub heads to correspond with the Statement No. II sent with this office letter, No. 1111 K.S. of the 30th July 1893.

Particulars.	(1) HEAD WORKS.										(2) MAIN CANALS AND BRANCHES.									
	Land.					Works.					Buildings.					Miscellaneous.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Old outlay	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Outlay on completed works	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eastern Section.																				
Manjipatam canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pullara do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pamarru junction canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Polara canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rantumilli do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kilore do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kyree do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bank do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kanavaralli drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Drain from Isampudi aqueduct to	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dayyapa calve	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lasabanda drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uppalur do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Velanagarum drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gudur swamp	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chendraya drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Polara do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pullara do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Damudi do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pedakomallura drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pedalanke do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kilamilli do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Statement showing the amount of the Kistna Delta completion estimates by Main and Sub heads to correspond with the statement No. II, &c.—cont.

Particulars.	(3) DISTRIBUTING.										(4) DRAINAGE AND PROTECTIVE WORKS.									
	Land.					Works.					Earthwork.					Miscellaneous.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Old outlay	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Outlay on completed works	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eastern Section.																				
Manjipatam canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pullara do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pamarru junction canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Polara canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rantumilli do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kilore do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kyree do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bank do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kanavaralli drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Drain from Isampudi aqueduct to	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dayyapa calve	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lasabanda drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uppalur do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Velanagarum drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gudur swamp	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chendraya drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Polara do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pullara do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Damudi do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pedakomallura drain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pedalanke do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kilamilli do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Statement showing the amount of the Kistna Delta completion estimates by Main and Sub-heads to correspond with the statement No. II, &c.—*cont.*

Particulars.	(1) Head Works.					(2) MAIN CANALS AND BRANCHES.																			
	2	3	4	5	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
																									Preliminary ex- penditure.
1	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.	ms.
Western Section.																									
Main canal ..																									
Nimampalam canal ..																									
Bank do. ..																									
Commamur do. ..																									
Koppalle drain ..																									
Thattiprolle do. ..																									
Pedapalle do. ..																									
Koppalle do. ..																									
Tungabhadra do. ..																									
Kompara do. ..																									
Nimampalam do. ..																									
Miscellaneous drains ..																									
Inspection bungalows ..																									
Total ..																									
Grand Total, Western Delta ..																									
Unforeseen works ..																									
Total requirements for I Works ..																									
Total for I Works including old outlay ..																									

Statement showing the amount of the Kistna Delta completion estimates by Main and Sub heads to correspond with the statement No. II, &c.—*cont.*

Statement showing the amount of the Kistna Delta completion estimate																		
Particulars	(3) DISTRIBUTION.					(4) DRAINAGE AND PROTECTIVE WORKS.												
	1	2	3	4	5	Total.	1	2	3	4	5	6	Total.	32				
															Preliminary ex- penditure.	Land.	Works.	Earthwork.
	20	21	22	23	24	25	26	27	28	29	30	31	32					
Western Section.																		
Main canal ..	..	..	810	..	..	810	..	..	..	..	..	..	..	6,72,031				
Nimampalam canal ..	..	1,800	39,839	34,480	470	76,989	..	..	..	..	..	..	..	1,11,624				
Bank ..	..	6,538	31,769	74,462	210	1,11,229	..	..	..	..	..	..	..	3,03,254				
Commamur do. ..	..	6,100	39,569	48,510	12,740	1,07,219	..	..	..	..	..	..	..	6,08,691				
Koppalle drain ..	..	..	..	..	..	..	330	20,830	22,430	1,00,726	760	2,34,366	..	2,34,366				
Thattiprolle do. ..	..	..	..	..	..	..	..	6,000	6,000	6,000	..	10,000	..	66,776				
Pedapalle do. ..	..	..	..	..	..	..	..	1,540	1,630	1,910	..	6,100	..	10,000				
Koppalle do. ..	..	..	..	..	..	..	..	18,650	1,91,600	6,84,860	6,281	9,01,741	..	9,01,741				
Tungabhadra do. ..	..	..	..	..	..	..	330	16,000	16,000	2,16,260	..	231,760	..	2,31,760				
Kompara do. ..	..	..	..	..	..	..	..	1,500	6,740	6,801	..	13,541	..	13,541				
Nimampalam do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	90				
Miscellaneous drains ..	..	..	..	..	..	..	..	..	..	..	..	..	..	26,000				
Inspection bungalows ..	..	..	..	..	..	..	..	..	..	..	..	..	..	26,000				
Total ..	250	14,436	1,11,937	1,66,152	13,420	2,96,247	750	47,670	2,42,664	11,63,503	9,990	14,63,277	..	29,72,973				
Grand Total, Western Delta ..	250	82,467	2,37,408	2,68,433	30,149	7,03,887	750	68,707	3,08,421	14,49,239	24,066	18,52,083	..	40,99,346				
Unforeseen works ..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,76,267				
Total requirements for I Works ..	..	..	..	..	..	..	..	..	..	..	..	..	..	44,74,603				
Total for I Works including old outlay ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,07,30,994				

(Signed)

J. W. MARTIN,
Superintending Engineer, II Circle.

(Signed) J. W. MARTIN,
Superintending Engineer, II Circle.

Abstract comparing the revised amounts with the estimates printed in Proceedings, Madras Government, No. 577 I., dated 1st October 1888.

	Sanctioned estimate (vide G.O. No. 577 I., 1st October 1888.)	REVISED ESTIMATE.		
		Outlay to end of 1892-93.	Further outlay.	Total.
Old outlay	30,81,755	30,31,755	..	30,81,755
1. Head works—				
Head works—				
2. Land	3,445	5,875	..	5,875
3. Works	1,27,917	51,849	6,500	58,349
4. Buildings	41,081	90,622	..	90,622
5. Miscellaneous	..	2,590	1,025	3,615
Total, 1 Head works ..	1,72,443	1,50,936	7,525	1,58,461
Eastern Section.				
2. Main canals and branches—				
Main canal—				
2. Land	5,188	5,188	..	5,188
3. Regulators	14,344	11,344	..	14,344
7. Bridges	1,630	1,260	..	1,260
9. Navigation works	7,844	7,844	..	7,844
11. Buildings	..	1,488	..	1,488
12. Earthwork	1,04,962	1,04,962	..	1,04,962
Total, Main canal ..	1,33,888	1,35,086	..	1,35,086
Masulipatam canal—				
2. Land	1,878	5,951	..	5,951
6. Other cross drainage	23,117	22,994	..	22,994
7. Bridges	..	..	..	..
9. Navigation works	1,872	1,780	..	1,780
11. Buildings	..	3,350	428	3,778
12. Earthwork	2,66,801	1,61,419	63,682	2,25,001
13. Miscellaneous	5,125	6,070	..	6,070
Total, 2 Main canals and branches ..	2,97,793	2,00,584	63,988	2,64,572
3. Distributaries—				
2. Land	4,726	6,228	7,870	14,095
3. Works	17,889	10,661	16,487	27,149
4. Earthwork	56,919	39,447	28,790	68,237
5. Miscellaneous	1,500	..	1,600	1,600
Total, 3 Distributaries ..	81,033	56,336	54,647	1,10,980
Total, Masulipatam canal ..	3,78,826	2,66,917	1,19,635	3,75,552
Pullaru canal—				
2. Main canals and branches—				
2. Land	6,775	5,469	3,650	9,119
3. Regulators	6,668	6,668	..	6,668
4. Falls and weirs	6,373	6,373	..	6,373
12. Earthwork	90,748	90,008	22,000	1,12,008
13. Miscellaneous	6,881	2,719	2,945	6,664
Total, 2 Main canals and branches ..	1,17,446	1,12,235	28,595	1,40,830
3. Distributaries—				
2. Land	30,946	12,001	13,556	25,557
3. Works	88,945	29,990	44,819	74,809
4. Earthwork	1,78,942	51,141	77,667	1,28,824
5. Miscellaneous	19,314	6,236	3,199	9,435
Total, 3 Distributaries ..	3,18,147	99,368	1,39,261	2,38,629
Total, Pullaru canal ..	4,35,692	2,11,603	1,67,856	3,79,459
Pamarru junction canal—				
2. Main canals and branches—				
2. Land	92	92	..	92
7. Bridges	3,850	3,828	..	3,828
11. Buildings	..	344	466	810
Total, Pamarru junction canal ..	3,942	3,664	466	4,430
Polras canal—				
2. Main canal and branches—				
2. Land	5,517	2,279	330	2,609
3. Regulators	1,240	3,441	..	3,441
7. Bridges	6,900	..	..	..
8. Escapes	1,932	1,932	..	1,932
9. Navigation works	80,897	79,517	..	79,517
11. Buildings	4,833	2,031	..	2,031
12. Earthwork	39,902	60,604	..	60,604
13. Miscellaneous	7,069	7,027	300	7,327
Total, 2 Main canals and branches ..	1,47,090	1,46,831	630	1,47,461

Abstract comparing the revised amounts with the estimates, printed, &c.—cont.

	Sanctioned estimate (vide G.O. No. 577 I., 1st October 1888.)	REVISED ESTIMATE.		
		Outlay to end of 1892-93.	Further outlay.	Total.
Eastern Section—cont.				
Polras canal—cont.				
3. Distributaries—				
1. Preliminary expenses	15,825	9,479	6,461	16,440
2. Land	46,582	40,603	6,293	46,896
3. Works	98,852	70,470	18,893	87,463
4. Earthwork	6,930	879	1,125	2,006
5. Miscellaneous	..	..	..	..
Total, 3 Distributaries ..	1,68,667	1,21,839	32,972	1,54,811
4. Drainage and protective works—				
2. Land	150	65	185	185
3. Works	3,605	1,007	3,505	4,612
4. Earthwork	..	..	..	..
Total, 4 Drainage and protective works ..	3,655	1,072	3,690	4,762
Total, Polras canal ..	3,19,312	2,69,742	37,292	3,07,034
Bantumilli canal—				
2. Main canals and branches—				
1. Preliminary expenses	339	750	6,789	6,539
2. Land	785	786	..	786
3. Regulators	6,190	..	..	..
7. Bridges	6,450	57,019	6,927	69,946
8. Escapes	76,485	2,679	1,610	4,289
9. Navigation works	4,649	59,887	11,879	71,766
11. Buildings	43,460	474	3,602	4,076
12. Earthwork	2,230	..	..	..
13. Miscellaneous	..	..	..	..
Total, 2 Main canals and branches ..	1,41,498	1,21,670	28,807	1,50,477
3. Distributaries—				
1. Preliminary expenses	292	295	6,210	298
2. Land	1,946	2,427	6,545	7,637
3. Works	3,837	14,740	6,545	21,245
4. Earthwork	9,210	14,639	15,704	30,241
5. Miscellaneous	768	111	652	763
Total, 3 Distributaries ..	16,052	32,112	28,111	60,223
Total, Bantumilli canal ..	1,67,650	1,63,782	66,918	2,10,709
Ellore canal—				
2. Main canals and branches—				
2. Land	1,06,525	1,24,224	30	1,24,414
6. River and hill torrent works	2,430	2,264	190	2,254
6. Other cross drainage works	..	12,534	..	12,534
7. Bridges	885	402	11,783	12,185
9. Navigation works	..	2,838	..	2,838
11. Buildings	..	16,334	..	16,334
12. Earthwork	4,266	3,513	436	3,949
13. Miscellaneous	..	..	..	..
Total, 2 Main canals and branches ..	1,13,116	1,62,099	12,439	1,74,538
3. Distributaries—				
2. Land	9,831	5,417	17,444	22,861
3. Works	20,937	26,658	25,179	50,737
4. Earthwork	24,807	16,615	25,667	41,182
5. Miscellaneous	768	840	2,412	2,258
Total, 3 Distributaries ..	66,341	47,330	70,709	1,18,032
Total, Ellore canal ..	1,79,457	2,09,429	83,148	2,09,429
Ryves canal—				
2. Main canals and branches—				
2. Land	10,350	9,976	..	9,976
3. Regulators	20,884	20,641	..	20,541
4. Falls and weirs	6,816	6,816	..	6,816

Abstract comparing the revised amounts with the estimates printed, &c.—*cont.*

		Sanctioned estimate (vide G.O., No. 677 I., 1st October 1888).	REVISED ESTIMATE.		
			Outlay to end of 1892-93.	Further outlay.	Total.
Eastern Section—cont.		RS.	RS.	RS.	RS.
Ryves canal—cont.					
2. Main canals and branches—cont.					
5. River and hill torrent works		8,599	8,599	..	8,599
7. Bridges		30,613	30,506	..	30,606
11. Buildings		2,853	2,853	..	2,853
12. Earthwork		3,81,672	3,74,733	..	3,74,733
15. Miscellaneous		1,641	1,641	..	1,641
Total, 2 Main canals and branches	..	4,59,327	4,51,964	..	4,51,964
3. Distributaries—					
2. Land		13,303	9,884	3,417	15,141
3. Works		35,719	36,767	..	46,649
4. Earthwork		65,108	61,418	24,854	86,272
5. Miscellaneous		4,867	4,424	8,055	10,479
Total, 3 Distributaries	..	1,18,987	1,12,493	46,048	1,68,541
4. Drainage and protective works—					
2. Land		457	185	..	185
3. Works		721	717	..	717
4. Earthwork		1,171	970	..	970
Total, 4 Drainage and protective works	..	2,349	1,872	..	1,872
Total, Ryves canal	..	5,80,183	5,66,029	46,048	6,12,077
Bank canal—					
2. Main canals and branches—					
1. Land		10,267	22,817	5,000	27,817
3. Regulators		9,940	9,276	..	9,276
5. River and hill torrent works		3,59,600	112	..	112
6. Other cross drainage works		8,650	..	..	..
7. Bridges		44,650	..	..	..
8. Escapes		8,830	..	..	..
9. Navigation works		17,195	18,859	..	18,859
11. Buildings		8,460	..	..	..
12. Earthwork		3,35,555	91,462	..	91,462
15. Miscellaneous		9,665	87	..	87
16. Maintenance		32,000	..	..	..
Total, 2 Main canals and branches	..	8,36,702	1,42,613	5,000	1,47,613
3. Distributaries—					
2. Land		31,017	..	..	..
3. Works		3,586	..	..	..
4. Earthwork		1,16,115	..	..	..
Total, 3 Distributaries	..	4,50,718	..	..	..
Total, bank canal	..	10,22,919	1,42,613	5,000	1,47,613
4. Drainage and protective works—					
1. Sub-section—					
Drain along left bank of Masulipatam canal—					
2. Land		607	607	..	607
4. Earthwork		271	931	..	931
5. Miscellaneous		58	54	..	54
Total, Drain along left bank of Masulipatam canal	..	1,594	1,592	..	1,592
Kanakala drain—					
2. Land		1,901	..	..	..
3. Works		2,725	..	..	..
4. Earthwork		14,687	..	..	..
Total, Kanakala drain	..	19,320	..	..	..
Devarapelli drain—					
4. Earthwork		233	..	..	..
Talera (Divi) drain—					
2. Land		1,323	..	..	..
3. Works		2,600	..	..	..
4. Earthwork		16,667	..	..	..
Total, Talera (Divi) drain	..	20,590	..	..	..

Abstract comparing the revised amounts with the estimates printed, &c.—*cont.*

Sanctioned estimate (vide G.O., No. 577 I., 1st October 1888).						REVISED ESTIMATE.		
						Outlay to end of 1892-93.	Further outlay.	Total.
						RS.	RS.	RS.
Eastern Section—cont.								
Gudimota drain—						867	..	..
2. Land						3,166	..	..
3. Works						4,600	..	..
4. Earthwork								
Total, Gudimota drain ..						8,333	..	..
Mopidevi drain—						167	..	..
4. Earthwork								
Sivaganga drain—						211	211	211
2. Land								
Drain from Isampadi aqueduct to Dayyapa calva—						5,710	1,849	3,861
2. Land						51,610	47,793	47,793
4. Earthwork						..	576	576
5. Miscellaneous								
Total ..						57,320	50,217	3,861
3. Sub-section--								
Uppuluru drain—						1,033	1,033	..
2. Land						6,717	..	6,717
3. Works						12,968	8,499	4,469
4. Earthwork						261	..	261
5. Miscellaneous								
Total, Uppuluru drain ..						20,979	9,532	11,447
Chendroyakodu drain—						19,740	4,024	..
2. Land						23,805	18,950	..
3. Works						82,763	52,685	..
4. Earthwork						3,119	141	4,718
5. Miscellaneous								
Total, Chendroyakodu drain ..						1,29,427	75,700	4,718
Polarakoda main drain and affluents—						23,830	2,559	..
2. Land						28,731	10,269	18,743
3. Works						90,042	68,928	13,709
4. Earthwork						4,715	1,611	190
5. Miscellaneous								
Total, Polarakoda main drain and affluents ..						1,47,319	83,267	22,642
Kolluru embankment—						904	..	..
2. Land						17,935	..	..
4. Earthwork								
Total ..						18,839	..	..
4. Sub-section--								
Pullava main drain and affluents—						850	484	..
2. Land						2,505	..	2,505
3. Works						21,787	24,445	..
4. Earthwork						865	430	1,146
5. Miscellaneous								
Total, Pullava main drain and affluents ..						26,007	25,359	3,651
Damidi drain—						220	97	..
2. Land						1,865	..	1,865
3. Works						5,986	5,107	..
4. Earthwork						446	398	95
5. Miscellaneous								
Total, Damidi drain ..						8,419	5,602	1,950
Peddakommleru main drain and affluents—						2,200	1,313	..
2. Land						3,742	..	560
3. Works						37,690	61,278	..
4. Earthwork						424	2,900	100
5. Miscellaneous								
Total, Peddakommleru main drain and affluents ..						43,976	65,488	660
Peddalanke drain and affluents—						2,410	212	3,867
2. Land						945	..	7,200
3. Works						84,090	58,500	1,07,207
4. Earthwork						778	32	2,113
5. Miscellaneous								
Total, Peddalanke drain and affluents ..						89,223	58,744	1,20,367

Abstract comparing the revised amounts with the estimates printed, &c.—*cont.*

	Sanctioned estimate (vide G.O., No. 877 I., 1st October 1888).	REVISED ESTIMATE.		
		Outlay to and of 1892-93.	Further outlay.	Total
<i>Eastern Section—cont.</i>				
4. Sub-section—cont.	Rs.	Rs.	Rs.	Rs.
Lingala drain—				
2. Land	476	476	..	476
4. Earthwork	8,052	3,052	..	3,052
6. Miscellaneous	1,099	..	..	..
Total, Lingala drain ..	4,627	3,628	..	3,528
5. Sub-section—				
Lazabanda drain and affluents—				
2. Land	18,976	4,166	3,275	7,441
3. Works	40,612	16,170	17,412	33,582
4. Earthwork	1,53,011	90,283	60,948	1,61,231
6. Miscellaneous	7,618	1,377	6,676	6,953
Total, Lazabanda drain and affluents ..	2,22,216	1,11,996	87,211	1,99,207
Sultanagaram drain—				
2. Land	601	189	412	601
4. Earthwork	2,415	..	2,415	2,415
Total, Sultanagaram drain ..	3,016	189	2,827	3,016
Kanakavalli drain—				
1. Preliminary expenses	..	..	..	..
2. Land	1,117	1,844	1,819	3,663
3. Works	16,815	10,107	603	10,710
4. Earthwork	8,760	12,763	4,400	17,163
6. Miscellaneous	492	..	1,254	1,254
Total, Kanakavalli drain ..	27,194	24,714	8,076	32,790
Gudur swamp—				
2. Land	375	..	375	375
3. Works	1,500	..	1,500	1,500
4. Earthwork	6,625	..	6,625	6,625
Total ..	7,600	..	7,600	7,600
Saradapeta drain—				
2. Land	1,600	1,600	..	1,600
Juvikana drain—				
4. Earthwork	..	2,203	..	2,203
Yellamalli drain—				
16. Miscellaneous	..	..	20	20
Total, Eastern section ..	41,05,698	25,09,853	8,25,388	33,35,241
<i>Western Section.</i>				
Main canal—				
2. Main canals and branches—				
2. Land	10,870	10,734	..	10,734
3. Regulators	15,702	15,702	..	15,702
6. River and hill torrent works	465	465	..	465
7. Bridges	610	..	..	..
8. Escapes	2,124	2,124	..	2,124
9. Navigation works	212	212	..	212
11. Buildings	..	1,264	..	1,264
12. Earthwork	6,21,606	4,46,326	1,37,185	6,83,611
15. Miscellaneous	2,406	2,613	3,464	6,077
Total, Main canals and branches ..	6,53,894	4,79,440	1,40,649	6,20,089
3. Distributaries—				
3. Works	..	..	810	810
Total, Main canal ..	6,53,894	4,79,440	1,41,459	6,20,899
Nisampatam canal—				
2. Main canals and branches—				
7. Bridges	19,486	11,095	17,390	28,485
9. Navigation works	600	629	6,600	7,229
12. Earthwork	10,646	..	10,646	10,646
Total, 2 Main canals and branches ..	30,731	11,724	24,635	46,359
3. Distributaries—				
2. Land	..	..	1,800	1,800
3. Works	8,702	3,688	37,314	40,932
4. Earthwork	8,787	6,732	24,880	41,612
6. Miscellaneous	..	..	470	470
Total, 3 Distributaries ..	17,489	10,320	74,494	84,814
Total, Nisampatam canal ..	48,220	22,044	1,09,129	1,31,173

Abstract comparing the revised amounts with the estimates printed, &c.—*cont.*

				Sanctioned estimate (vide G.O., No. 577 I., 1st October 1888).	REVISED ESTIMATE.		
					Outlay to end of 1892-93.	Further outlay.	Total.
Western Section—cont.				Rs.	Rs.	Rs.	Rs.
Bank canal—							
2. Main canals and branches—							
1. Preliminary expenses	..	..	..	700	..	700	..
2. Land	..	..	..	2,050	2,432	..	2,432
3. Regulators	..	..	..	3,390	..	3,390	3,390
6. River and hill torrent works	..	..	..	7,275	..	7,275	7,275
6. Other cross drainage works	..	..	..	..	..	3,320	3,320
7. Bridges	..	..	..	19,310	..	..	..
8. Escapes	..	..	..	2,865	..	2,865	2,865
9. Navigation works	..	..	..	82,610	87,566	40,977	1,08,642
11. Buildings	..	..	..	4,961	6,342	..	6,342
12. Earthwork	..	..	..	1,13,716	75,980	47,476	1,23,656
15. Miscellaneous	..	..	..	10,063	4,380	14,021	18,401
Total, 2 Main canals and branches				2,46,239	1,66,399	1,19,624	2,75,923
3. Distributaries—							
1. Preliminary expenses	..	..	..	1,041	213	1,254	..
2. Lands	..	..	..	7,548	464	6,462	6,926
3. Works	..	..	..	63,888	8,710	29,744	88,454
4. Earthwork	..	..	..	81,765	9,610	68,646	78,156
6. Miscellaneous	..	..	..	..	1,845	169	2,014
Total, 3 Distributaries				1,43,201	21,670	1,05,134	1,36,804
Total, Bank canal				3,89,440	1,78,069	2,24,658	4,02,727
Commamur canal—							
2. Main canals and branches—							
1. Preliminary expenses	..	..	..	384	..	384	..
2. Land	..	..	..	16,068	13,931	3,137	16,068
3. Regulators	..	..	..	2,593	2,693	..	2,693
6. River and hill torrent works	..	..	..	2,44,434	1,85,821	1,06,653	2,92,373
6. Other cross drainage works	..	..	..	..	166	354	610
7. Bridges	..	..	..	45,876	45,896	..	45,896
9. Navigation works	..	..	..	1,40,078	1,43,727	24,430	1,68,157
11. Buildings	..	..	..	3,928	3,927	..	3,927
12. Earthwork	..	..	..	2,07,056	2,47,616	16,496	2,64,211
15. Miscellaneous	..	..	..	9,662	17,660	..	17,660
Total, 2 Main canals and branches				7,69,694	6,61,611	1,60,068	8,11,679
3. Distributaries—							
1. Preliminary expenses	..	..	..	380	169	..	159
2. Land	..	..	..	19,688	7,058	4,128	11,186
3. Works	..	..	..	56,659	26,308	39,639	65,847
4. Earthwork	..	..	..	1,49,707	67,939	48,810	1,16,749
6. Miscellaneous	..	..	..	2,000	1,045	12,740	13,787
Total, 3 Distributaries				2,30,314	1,02,809	1,05,217	2,07,728
4. Drainage and protective works—							
2. Land	..	..	..	78	..	78	..
3. Works	..	..	..	..	66	66	..
4. Earthwork	..	..	..	1,423	760	2,183	..
Total				..	1,601	826	2,327
Total, Commamur canal				9,99,908	7,65,621	2,66,111	10,21,732
4. Drainage and protective works—							
Drainage channel from Emileru stream to Feringhi-dibba inlet—							
2. Land	..	..	..	900	891	..	891
4. Earthwork	..	..	..	9,628	6,403	..	6,403
Total				10,428	6,294	..	6,294
Repalle drain—							
1. Preliminary expenses	..	..	..	198	330	528	..
2. Land	..	..	..	21,698	2,706	18,490	21,196
3. Works	..	..	..	39,847	36,409	22,430	68,839
4. Earthwork	..	..	..	1,79,824	1,27,908	83,716	2,11,622
6. Miscellaneous	..	..	..	8,140	4,060	..	4,060
Total, Repalle drain				2,46,509	1,71,279	1,24,966	2,96,245

Abstract comparing the revised amounts with the estimates printed, &c.—*cont.*

		Sanctioned estimate (vide G.O., No. 677 I., 1st October 1893).	REVISED ESTIMATE.		
			Outlay to end of 1892-93.	Further outlay.	Total.
Western Section—cont.		Rs.	Rs.	Rs.	Rs.
4. Drainage and protective works—cont.					
Bhattiprolu drain—					
2. Land		15,601	22,684	5,000	5,000
3. Works		28,166	2,158	48,166	22,684
4. Earthwork		2,439	25	2,684	50,324
5. Miscellaneous					2,609
Total ..		46,206	24,867	55,750	80,617
Peddapalli drain—					
2. Land		123	96		96
3. Works		2,910	1,930	5,000	5,000
4. Earthwork				5,000	6,930
Total ..		2,333	2,026	10,000	12,026
Nizampatam drain—					
2. Land		3,350			
3. Works		6,740		6,740	6,740
4. Earthwork		6,801		6,801	6,801
Total ..		16,891		13,541	13,541
Tengahhadra drain—					
1. Preliminary expenses			252	328	580
2. Land		17,172	4,959	13,691	18,650
3. Works		99,794	2,497	1,89,157	1,91,654
4. Earthwork		4,92,153	1,87,966	4,90,677	6,78,543
5. Miscellaneous		6,162	1,141	5,140	6,281
Total ..		6,15,271	1,98,815	6,98,893	8,95,708
Romperu drain—					
2. Land		2,593	976	1,500	2,476
3. Works		21,790		15,000	15,000
4. Earthwork		1,59,717	99,190	1,49,763	2,48,953
Total ..		1,84,100	1,00,166	1,66,263	2,66,429
Vetapalem-Kunderu drain below Vetapalem—					
4. Earthwork			2,699		2,699
Koppalla drain—					
2. Land				1,540	1,540
3. Works			320	1,330	1,650
4. Earthwork				1,910	1,910
Total, Koppalla drain ..			320	4,780	5,100
1. Preliminary expenses				90	90
2. Main canals and branches—					
11. Buildings				25,000	25,000
Total, Western section		31,13,200	19,49,640	18,30,640	37,80,280
Unforeseen works ..		3,67,998		3,75,257	3,75,257
Total for works ..		1,07,30,894	76,92,144	30,38,810	1,07,30,894
Establishment		25,07,268	18,33,752	6,73,616	25,07,268
Tools and plant		5,68,043	6,23,664	1,44,479	6,68,043
Loss by exchange		20,000	9,929	10,071	20,000
Total ..		1,39,26,303	1,00,69,429	38,66,876	1,39,26,303
Less receipts on capital account ..		6,521	15,196	—8,675	6,521
Net Total ..		1,39,19,784	1,00,44,233	38,75,551	1,39,19,784
Indirect Charges.					
Capitalized abatement of Land Revenue		5,52,200	4,16,204	1,35,998	5,52,200
Leave and pension allowances		4,28,960	3,34,667	94,293	4,28,960
Total indirect charges ..		9,81,160	7,50,871	2,30,291	9,81,160
Grand Total ..		1,49,00,944	1,07,95,104	41,05,840	1,49,00,944

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Secretary to Govt., P.W.D.

28th Sept. 1893.

ORDER—dated 11th October 1893, No. 857 I., Public Works.

The statement showing the works of the Kistna delta system on which expenditure has still to be incurred is approved and will be printed with the two abstracts appended to the note by the Chief Engineer for Irrigation.

2. The Superintending Engineer, II Circle, will expedite the submission of the estimate called for by the Chief Engineer for Irrigation for rendering the Ryves canal efficient for the contemplated extension of irrigation under that canal.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India with a request that the extension of sanction accorded to the Kistna delta completion estimates in the Government of India letter, No. 10 I., dated 22nd January 1899, which expired on the 31st March 1893, be extended for a further period of 5 years from 1st April 1893.

[Here enter No. 858 I., dated 11th October 1893.]

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Secretary to Govt., P.W.D.

To the Chief Engineer for Irrigation, with two statements.
" Superintending Engineer, II Circle.
" Examiner, Public Works Accounts.
" Revenue Department.

Esd. C. A. Munimwaz.
Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of {1893} Madras.
PUBLIC WORKS.

Dated October, 11th.

Recd.

Encl.

G.O., 11th Oct. 1893, No. 857 I.

OCTOBER.

Kistna Delta System

The statement showing the works of the —
on which expenditure has still to be incurred,
approved, and a copy of these Proceedings
ordered to be forwarded to the Government
of India for an extension of the sanction to
the completion estimates for a period of five
years from 1st April 1893.