FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION-MAJOR WORKS

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1896-97.

MADRAS,
24th April 1896.

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Secretary to Govt., P.W.D.,
Irrigation Branch.

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GOVERNMENT OF MADRAS.

REVENUE.

Abstract Budget Estimate of Revenue expected from Irrigation—Major Works in the Madras Presidency for the year from 1st April 1896 to 31st March 1897.

	Actual Realizations, 1894-95.	Budget Estimate, 1895-96.	Revised Estimate, 1895-96.	Budget Estimate, 1896-97.
IRRIGATION.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.				
MAJOR PRODUCTIVE WORKS (DIRECT RECEIPTS).				
Gódávari Delta System, Collections in the Public Works Department.	1,25,418	1,20,000	1,20,000	1,20,000
Kistna Delta System do. do.	53,745	50,000	50,000	48,000
Pennéru Anicut System do. do.	397	600	600	400
Sangam Anicut System do. do.	536	700	700	600
Cauvery Delta System do. do.	3,569	2,500	2,500	3,500
Srivaikuntam Anicut System do. do.	1,566	1,500	1,500	1,000
Barur tank do. do.	26	...	...	...
Rushikulya do. do.	1,023	...	...	1,500
Kurnool-Cuddapah Canal. Collections in the Revenue Department ...	1,00,318	97,895	97,895	97,895
Deduct Collection Charges	5,225	4,895	4,895	4,895
Net Collections in the Revenue Department ...	95,093	93,000	93,000	93,000
Collections in the Public Works Department...	8,796	11,700	11,700	10,000
Total ...	1,03,889	1,04,700	1,04,700	1,03,000
Total ...	2,90,169	2,80,000	2,80,000	2,78,000

GOVERNMENT OF MADRAS.

REVENUE.

Memorandum of the Amounts to be credited to each Project on account of Share of Enhanced Land Revenue due to, or dependent on, the Works.

	Actual Realizations, 1894-95.	Budget Estimate, 1895-96.	Revised Estimate, 1895-96.	Budget Estimate, 1896-97.
IRRIGATION.	Rs.	Rs.	Rs.	Rs.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Gódávari Delta—				
Irrigation Revenue	23,46,014	28,25,000	23,75,000	28,80,000
Deduct Revenue due to old Irrigation	1,24,000	1,24,000	1,24,000	1,24,000
Revenue due to the System	22,22,014	27,01,000	22,51,000	27,56,000
Share of enhanced Land Revenue	1,57,189	1,60,000	1,60,000	1,70,000
Total ...	23,79,203	28,61,000	24,11,000	29,26,000
Deduct Collection Charges in the Civil Department	1,18,960	1,43,050	1,20,550	1,46,300
Net Revenue ...	22,60,243	27,17,950	22,90,450	27,79,700
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	778	1,050	550	1,300
Total ...	22,61,021	27,19,000	22,91,000	27,81,000
Kistna Delta—				
Irrigation Revenue	18,64,067	24,50,000	22,50,000	24,30,000
Deduct Revenue due to old Irrigation	71,000	71,000	71,000	71,000
Revenue due to the System	17,93,067	23,79,000	21,79,000	23,59,000
Share of enhanced Land Revenue	1,69,333	1,70,000	1,70,000	1,80,000
Total ...	19,62,400	25,49,000	23,49,000	25,39,000
Deduct Collection Charges in the Civil Department	98,120	1,27,450	1,17,450	1,27,000
Net Revenue ...	18,64,280	24,21,550	22,31,550	24,12,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	2,616	10,450	3,450	10,000
Total ...	18,66,896	24,32,000	22,35,000	24,22,000
Pennéru Anicut—				
Irrigation Revenue	2,62,846	2,60,000	2,63,000	2,63,000
Deduct Revenue due to old Irrigation	1,17,000	1,17,000	1,17,000	1,17,000
Revenue due to the System	1,45,846	1,43,000	1,46,000	1,46,000
Share of enhanced Land Revenue	19,909	19,500	20,000	20,000
Total ...	1,65,755	1,62,500	1,66,000	1,66,000
Deduct Collection Charges in the Civil Department	8,288	8,125	8,300	8,300
Net Revenue ...	1,57,467	1,54,375	1,57,700	1,57,700
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	345	625	300	300
Total ...	1,57,812	1,55,000	1,58,000	1,58,000

GOVERNMENT OF MADRAS.

REVENUE—continued.

Memorandum of the Amounts to be credited to each Project on account of Share of Enhanced Land Revenue due to, or dependent on, the Works—continued.

	Actual Realizations, 1894–95.	Budget Estimate, 1895–96.	Revised Estimate, 1895–96.	Budget Estimate, 1896–97.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Sangam Anicut—				
Irrigation Revenue	3,02,603	3,84,000	3,84,000	4,01,000
Deduct Revenue due to old Irrigation	1,39,000	1,39,000	1,39,000	1,39,000
Revenue due to the System	1,63,603	2,45,000	2,45,000	2,62,000
Share of enhanced Land Revenue	15,925	21,500	21,500	22,000
Total	1,79,528	2,66,500	2,66,500	2,84,000
Deduct Collection Charges in the Civil Department	8,977	13,325	13,500	14,000
Net Revenue	1,70,551	2,53,175	2,53,000	2,70,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	5,664	4,825	6,000	6,000
Total	1,76,215	2,58,000	2,59,000	2,76,000
Cauvery Delta—				
Irrigation Revenue	37,78,719	38,10,000	40,80,000	41,50,000
Deduct Revenue due to old Irrigation	30,21,510	30,45,000	32,61,000	33,17,000
Revenue due to the System	7,57,209	7,65,000	8,19,000	8,33,000
Share of enhanced Land Revenue	1,09,404	1,25,000	1,16,000	1,17,000
Total	8,66,613	8,90,000	9,35,000	9,50,000
Deduct Collection Charges in the Civil Department	43,331	45,000	47,000	48,000
Net Revenue	8,23,282	8,45,000	8,88,000	9,02,000
Srivaikuntam Anicut—				
Irrigation Revenue	1,75,555	1,85,000	1,85,000	1,85,000
Deduct Revenue due to old Irrigation	79,000	79,000	79,000	79,000
Revenue due to the System	96,555	1,06,000	1,06,000	1,06,000
Share of enhanced Land Revenue	1,828	2,000	2,000	2,000
Total	98,383	1,08,000	1,08,000	1,08,000
Deduct Collection Charges in the Civil Department	4,919	5,000	5,000	5,000
Net Revenue	93,464	1,03,000	1,03,000	1,03,000

GOVERNMENT OF MADRAS.

REVENUE—continued.

Memorandum of the Amounts to be credited to each Project on account of Share of Enhanced Land Revenue due to, or dependent on, the Works—continued.

	Actual Realizations, 1894–95.	Budget Estimate, 1895–96.	Revised Estimate, 1895–96.	Budget Estimate, 1896–97.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Barur Tank—				
Irrigation Revenue	11,840	14,000	12,000	14,000
Deduct Revenue due to old Irrigation	2,000	2,000	2,000	2,000
Revenue due to the System	9,840	12,000	10,000	12,000
Share of enhanced Land Revenue	2	...	...	...
Total	9,842	12,000	10,000	12,000
Deduct Collection Charges in the Civil Department	492	1,000	1,000	1,000
Net Revenue	9,350	11,000	9,000	11,000
Kurnool-Cuddapah Canal—				
Share of enhanced Land Revenue under tanks owing to supply of canal water	4,455	8,000	8,400	8,400
Deduct Collection Charges in the Civil Department	223	1,000	400	400
Net Revenue	4,232	7,000	8,000	8,000
Rushikulya Project—				
Irrigation Revenue	47,154	91,000	91,000	1,00,000
Deduct Revenue due to old Irrigation	20,850	28,000	28,000	30,000
Revenue due to the System	26,304	63,000	63,000	70,000
Share of enhanced Land Revenue	6	150	150	150
Total	26,310	63,150	63,150	70,150
Deduct Collection Charges in the Civil Department	1,316	3,150	3,400	3,950
Net Revenue	24,994	60,000	59,750	66,200
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	...	...	250	800
Total	24,994	60,000	60,000	67,000
Total—				
Irrigation Revenue	87,88,798	1,00,19,000	96,40,000	1,04,23,000
Deduct Revenue due to old Irrigation	35,74,360	36,05,000	38,21,000	38,79,000
Revenue due to the System	52,14,438	64,14,000	58,19,000	65,44,000
Share of enhanced Land Revenue	4,78,051	5,06,150	4,98,050	5,19,550
Total	56,92,489	69,20,150	63,17,050	70,63,550
Deduct Collection Charges in the Civil Department	2,84,626	3,47,100	3,16,150	3,53,950
Net Revenue	54,07,863	65,73,050	60,00,900	67,09,600
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	9,403	16,950	10,100	18,400
Total	54,17,266	65,90,000	60,11,000	67,28,000

GOVERNMENT OF MADRAS.

CHARGES.

Abstract Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year from 1st April 1896 to 31st March 1897.

	Reference to Detailed Estimate.	Actual Outlay, 1894–95.	Budget Estimate, 1895–96.	Revised Estimate, 1895–96.	Budget Estimate, 1896–97.
IMPERIAL.					
MAJOR (PROTECTIVE) WORKS.					
Famine Relief and Insurance.					
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.	PAGES.	Rs.	Rs.	Rs.	Rs.
1. Works ... ... In progress ... Rs. 63,500	8 & 9	2,46,199	2,46,577	1,89,667	1,53,646
Not commenced. 90,146					
2. Establishment	42	52,613	51,423	38,333	33,039
3. Tools and plant	43	11,366	2,000	...	2,315
5. Receipts on capital account	...	— 452	...	...	...
Total ...		3,09,726	3,00,000	2,28,000	1,89,000
42. (WORKING EXPENSES).					
1. Extensions and improvements. In progress ... Rs. ... Not commenced 57,712	8 to 11	51,046	48,392	54,026	57,712
2. Maintenance and repairs	35 to 39	5,16,590	5,01,564	6,04,151	5,71,224
3. Establishment	42	4,61,014	5,30,743	5,20,136	5,56,121
4. Tools and plant	43 to 45	82,488	1,11,301	1,06,687	94,943
5. Refunds of revenue	...	893	...	...	...
Total, Working Expenses ...		11,12,031	11,92,000	12,85,000	12,80,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.					
49. IRRIGATION.					
1. Works ... ... In progress ... Rs. 2,82,342	10 to 33	10,67,792	9,04,825	10,24,293	7,46,752
Not commenced ... 4,64,410					
2. Establishment	42	2,38,689	1,99,675	2,27,207	1,62,518
3. Tools and plant	45	1,11,723	45,500	45,500	31,730
4. Suspense account	...	— 807	...	...	...
5. Receipts on capital account	...	— 2,992	...	...	...
Total, Capital Expenditure ..		14,14,405	11,50,000	12,97,000	9,41,000

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1896–97, arranged by Projects and Objects of Work.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1894–95.	Budget Estimate, 1895–96.	Probable Outlay during 1895–96 (Revised Estimate).	Budget Estimate, 1896–97.	Remarks and References.
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
MAJOR (PROTECTIVE) WORKS.						
Famine Relief and Insurance.						
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
Capital Account.						
Rushikulya Project	43,68,000	36,80,677	3,00,000	2,28,000	1,89,000	Government of India register No. 7 I. of 1894–95. Proceedings of Madras Govt. No. 846 I. of 7th November 1894.
42. (WORKING EXPENSES).						
Gódávari Delta	...	...	5,06,000	4,84,173	5,30,000	
Kistna do.	...	...	4,60,000	5,78,720	5,26,000	
Pennéru Anicut	...	...	19,000	18,113	19,000	
Sangam do.	...	...	42,000	41,990	43,000	
Kurnool-Cuddapah Canal ...	...	...	1,05,000	99,910	86,000	
Barur Tank Project	...	...	5,000	3,392	3,800	
Cauvery Delta	...	...	18,000	15,590	18,200	
Srivaikuntam Anicut ...	...	...	17,000	17,873	24,000	
Rushikulya Project	...	...	20,000	25,239	30,000	
Total ...	...	...	11,92,000	12,85,000	12,80,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION.						
Works in Progress.						
Gódávari Delta System ...	1,41,470	85,627	13,000	14,825	84,000	P.M.G. No. 393 I., dated 3rd May 1895, No. 890 I., dated 30th October 1895, and No. 919 I., dated 2nd November 1895. Estimates for other works under preparation.
Kistna Delta do. ...	1,39,19,784	1,08,33,853	4,48,000	5,38,000	5,75,000	Government of India register No. 8 I. of 1884–85. P.M.G. No. 862 I., dated 22nd Sept. 1894. Government of India letter No. 10 I. of 22nd Jan. 1889, P.M.G. No. 62 I. of 11th Feb. 1889, No. 857 I. of 11th Oct. 1893 and No. 34 I. of 17th Jan. 1894.
Pennéru Anicut do. ...	...	...	4,000	4,000	9,000	P.M.G. No. 181 I., dated 22nd Jan. 1896. Estimate for another work under preparation.
Sangam do. do. ...	16,000	...	17,000	17,000	19,000	Government of India register No. 21 I. of 1895–96. Estimate for another work under preparation.
Barur Project	4,200	...	2,460	3,038	1,700	P.M.G. No. 1050 I., dated 22nd Dec. 1894.
Cauvery Delta	60,581	7,145	20,000	22,497	76,100	P.M.G. No. 561 I., dated 31st July 1894, No. 853 I. of 7th Nov. 1894, No. 195 I. of 28th Feb. 1895, No. 467 I. of 1st June 1895, No. 485 I. of 15th June 1895, No. 599 I. of 31st July 1895, and No. 768 I. of 2nd Sept. 1895. Government of India letter No. 259 I. of 23rd Oct. 1895, P.M.G. No. 909 I. of 1st Nov. 1895, and No. 1022 I. of 26th Nov. 1895.
Srivaikuntam Anicut ...	3,200	...	1,540	1,540	13,100	P.M.G. No. 650 I., dated 12th August 1895. Estimates for other works under preparation.
Periyár Project	84,71,000	73,56,056	6,44,000	6,96,100	1,63,100	Government of India register No. 10 I. of 1894–95. P.M.G. No. 1057 I., dated 22nd December 1894.
Total ...	...	...	11,50,000	12,97,000	9,41,000	

GOVERNMENT OF MADRAS.

CHARGES.

Part II.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1896–97.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant for 1896–97.	Item No.	Remarks and references.
				IMPERIAL.						
				MAJOR (PROTECTIVE) WORKS.						
				Famine Relief and Insurance.						
				35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
				Capital Account.						
				RUSHIKULYA PROJECT.						
				(1) HEAD WORKS.						
				Mahánadi Section.						
Rushikulya division.	...	3. Works ...	1	Surplus channel of Russellkonda reservoir, drop and road dam combined for the proposed diversion of Russellkonda-Mujjagada road over the Russellkonda.	Rs. 6,300	Rs. 2,350	Rs. 1,950	Rs. 2,000	1	P.M.G. No. 155 I., dated 18th February 1895.
		Do. ...	2	Surplus channel	4,000	732	1,500	1,500	2	
		Do. ...	3	Diversion between 51st and 52nd miles of Russellkonda-Majjagada road.	2,400	...	1,000	1,000	3	
				(2) MAIN CANALS AND BRANCHES.						
				Rushikulya Canal						
		6. Other cross drainage works.	4	Tail race channel to Govia nallah under tunnel.	5,900	1	1,400	4,500	4	P.M.G. No. 182 I., dated 25th February 1895.
		Do.	5	Under tunnel at $29\frac{7}{16}$ miles, Rushikulya canal ...	5,720	796	2,000	1,200	5	
				(3) DISTRIBUTARIES.						
				Mahánadi Canal.						
		2. Land ...	6	Compensation for land	4,000	...	1,000	2,000	6	Government of India Register No. 7 I. of 1894–95. P.M.G. No. 846 I., dated 7th November 1894.
		3. Works ...	7	Irrigation sluices	3,000	...	...	3,000	7	
		Do. ...	8	Minor works	3,000	...	...	2,000	8	
		4. Earthwork ...	9	Irrigation channels	2,000	17	...	8,500	9	
				Rushikulya Canal.	9,500	...	1,000			
		2. Land ...	10	Compensation for land	60,000	25,444	15,000	8,000	10	
		3. Works ...	11	Irrigation sluices	16,148				11	
		Do. ...	12	Minor masonry works	61,602	...	...	1,19,946	12	
		4. Earthwork ...	13	Irrigation channels	1,50,000				13	
				Total, Rushikulya Project ...	...	...	...	1,53,646		
				IRRIGATION.						
				42. MAJOR WORKS (WORKING EXPENSES).						
				EXTENSIONS AND IMPROVEMENTS.						
				Gódávari Delta System.						
Gódávari Eastern division.	...	.....	14	Extensions and improvements	...	...	6,900	7,000	14	
Gódávari Central.	...	.....	15	Do. do.	...	...	1,012	1,500	15	
Gódávari Western division.	...	.....	16	Do. do.	...	...	8,438	10,000	16	
				Total ...	...	...	16,350	18,500		

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II—cont.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1896–97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant for 1896–97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				EXTENSIONS AND IMPROVEMNTS—*cont.*						
				Kistna Delta System.						
Kistna Eastern ...	...	.....	17	Extensions and improvements	...	...	10,240	11,000	17	
Kistna Western.	...	.....	18	Do. do.	...	...	4,750	3,000	18	
				Total ...	...	...	14,990	14,000		
				Pennéru Anicut System.						
Nellore ...	...	.....	19	Extensions and improvements	...	...	5,000	1,721	19	
				Deduct old maintenance charges	...	...	* 3,564	* 3,564		
				Net grant ...	...	...	1,436	— 1,843		
				Sangam Anicut System.						
Nellore ...	...	.....	20	Extensions and improvements	...	...	4,413	4,365	20	
				Deduct old maintenance charges	...	...	* 345	* 345		
				Net grant ...	...	...	4,068	4,020		
				Kurnool-Cuddapah Canal.						
Kurnool ...	...	.....	21	Extensions and improvements	...	...	7,000	6,000	21	
				Barur Tank Project.						
Salem ...	...	.....	22	Extensions and improvements	...	...	520	1,004	22	
				Cauvery Delta System.						
Tanjore ...	...	.....	23	Extensions and improvements	...	...	8,000	8,000	23	
Negapatam ...	...	.....	24	Do. do.	...	...	1,500	3,000	24	
Trichinopoly ...	...	.....	25	Do. do.	...	...	500	1,500	25	
				Total ...	...	...	10,000	12,500		
				Srivaikuntam Anicut System.						
Tinnevelly ...	...	.....	26	Extensions and improvements	...	...	14	3,883	26	
				Deduct old maintenance charges	...	...	* 352	* 352		
				Net grant ...	...	...	— 338	3,531		
				Total, Extensions and Improvements ...	...	...	...	57,712		
				CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
				49. IRRIGATION.						
				GODAVARI DELTA SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				Eastern Section.						
Gódávari Eastern.	...	3. Works ...	27	(1) Head Works.						
			28	Raising the crest of Gódávari anicut	1,08,000	...	...	40,000	27	Government of Register No. 25 I. of 1895-96. P.M.G. No. 114 I., dated 3rd February 1896.
				Reserve for works	...	...	...	4,000	28	
				Total, Eastern Section ...	...	...	...	44,000		

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896–97.

Details of the Budget Estimate for Original Works under Irrigation

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.
				OPEN CAPITAL ACCOUNT—*cont.*
				Central Section.
				(3) Distributaries.
				Neduvúr Channel.
Gódávari Central.	...	4. Earthwork ...	29	Mukkamala east side channel ... ...
			30	Reserve for works
			31	Do. for land ... ...
				Total, Central Section ...
				Western Section.
				(3) Distributaries.
				Attili Canal.
Gódávari Western.	...	4. Earthwork ...	32	Branches of Rámésvaram channel
			33	Reserve for works ... ...
			34	Do. for land ... ...
				Total, Western Section ...
				Total, Gódávari Delta System ...
				KISTNA DELTA SYSTEM.
				EASTERN SECTION.
				Works in Progress.
				Western Delta Main Canal.
				(2) Main Canals and Branches.
Kistna Northern.	Sitanagaram.	3. Regulators ...	35	Constructing the proposed head sluice at Sitanagaram.
				Major Works.
				Masulipatam Canal.
				(3) Distributaries.
Kistna Eastern ...	...	4. Earthwork ...	36	Bheemanadi channel ... ...
				Pulleru Canal.
				(4) Drainage and Protective Works.
		4. Earthwork ...	37	Widening Kaldindi drain ... ...
				Pedalanka Channel.
				(3) Distributaries.
		3. Works ...	38	Chivagonnur under tunnel ... ...
		4. Earthwork ...	39	Excavating Pedalanka channel ... ...
				Bantumilli Canal.
				(3) Distributaries.
		4. Earthwork ...	40	Excavating Kamalapuram north side channel ...
				Total, Works in Progress, Kistna Eastern division ... ...

Major Works in the Madras Presidency for the year 1896–97—continued.

Amount of estimate.	Outlay		Grant for 1896–97.	Item No.	Remarks and references.
	To end of 1894–95.	Probable during 1895–96.			
Rs.	Rs.	Rs.	Rs.		
3,820	...	...	3,000	29	P.M.G. No. 393 I., dated 3rd May 1895.
...	...	...	5,500	30	
...	...	..	1,500	31	
...	...	...	10,000		
...	...	...	3,000	32	Estimate under preparation.
...	...	...	9,000	33	
...	...	...	3,000	34	
...	...	...	15,000		
...	...	...	69,000		
82,500	14,890	34,000	33,700	35	
10,300	105	100	10,000	36	
55,787	44,411	7,000	4,194	37	P.M.G. No. 34 I., dated 17th January 1894.
5,720	549	4,971	200	38	
61,300	15,944	34,000	5,000	39	
3,590	1,643	900	1,000	40	
...	...	...	20,394		

CHARGES—cont.

Part II—cont.

Details of the Budget Estimate for Original Works under Irrigation — *Major Works in the Madras Presidency for the year* 1896-97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant for 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Works not Commenced.						
				Major Works.						
				Masulipatam Canal.						
Kistna Eastern —*cont.*	...	4. Earthwork ...	41	(3) Distributaries.						
		Do. ..	42	Excavating Urutur channel	2,690	...	...	2,500	41	
		Do. ...	43	Do. Manginapudi canal	20,000	...	...	20,000	42	
				Do. Managercodu	5,000	...	...	5,000	43	
				Pulleru Canal.						
		4. Earthwork ...	44	(3) Distributaries.						
				Regulator with side sluices at 4 miles 5 furlongs of Gudivâda channel.	5,430	...	1,430	4,000	44	
				Pedalanka Channel.						
		4. Earthwork ...	45	(3) Distributaries.						
		Do. ...	46	Excavating Kottacodu	3,840	...	2,000	1,800	45	
		Do. ...	47	Do. Kaldindi channel	2,500	...	2,000	500	46	
		Do. ...	48	Do. Kondangi branch	2,600	...	1,600	1,000	47	
		Do. ...	49	Do. Mattagunta channel	3,000	...	...	2,500	48	
		Do. ...	50	Do. Tummacodu	3,000	...	...	2,000	49	
		Do. ...	51	Do. Vennarcodu	4,250	...	1,000	2,500	50	
				Pipe sluices along Peddalanka channel ...	7,500	...	...	4,000	51	
				(4) Drainage and Protective Works.						
		4. Earthwork ...	52	Widening Pedalanka drain	10,000	...	...	10,000	52	
		Do. ...	53	Excavating Kaldindi drain	4,520	...	...	4,520	53	
				Bantumilli Canal.						
				(2) Main Canals and Branches.						P.M.G. No. 34 I., dated 17th January 1894.
		11. Buildings ...	54	Rest-house at Lakshmipuram	2,590	...	1,000	1,000	54	
		15. Miscellaneous.	55	Seven ramps for the extension of Bantumilli canal.	2,720	...	...	1,000	55	
				Total, Works not commenced ...	...	...	...	62,320		
				MINOR WORKS ESTIMATED TO COST Rs. 2,500 EACH AND UNDER.						
				Works in Progress.						
				Ellore Canal.						
		3. Works ...	56	(3) Distributaries.						
		4. Earthwork ...	57	Minor works	2,360	410	850	855	56	
		5. Miscellaneous.	58	Do.	4,137	1,795	740	1,280	57	
				Do.	300	50	50	150	58	
				Ryves' Canal.						
		3. Works ...	59	(3) Distributaries.						
		4. Earthwork ...	60	Minor works	4,800	1,355	1,130	1,930	59	
		5. Miscellaneous.	61	Do.	535	420	...	100	60	
				Do.	2,800	585	300	1,280	61	

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ES—cont.

II—cont.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1896-97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant for 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Works not Commenced—cont.						
				Pulleru Canal.						
				(3) Distributaries.						
Kistna Eastern —*cont.*	...	3. Works ...	81	Minor works	5,059	...	1,200	3,850	81	
		4. Earthwork ...	82	Do.	10,762	...	1,604	8,299	82	
				Polraz Canal.						
				(3) Distributaries.						
		3. Works ...	83	Minor works	170	...	100	70	83	
		4. Earthwork ...	84	Do.	4,410	...	1,560	2,600	84	
				Pedalanka channel.						
				(3) Distributaries.						
		3. Works ...	85	Minor works	7,900	...	2,310	5,410	85	
		4. Earthwork ...	86	Do.	15,380	...	650	13,050	86	
		5. Miscellaneous...	87	Do.	1,170	...	50	1,080	87	
				Bantumilli Canal.						
				(2) Main Canals and Branches.						
		11. Buildings ...	88	Minor works	860	...	200	400	83	
				(3) Distributaries.						
		3. Works ...	89	Minor works	3,270	...	1,870	1,150	89	
		4. Earthwork ...	90	Do.	3,000	...	...	3,000	90	
		5. Miscellaneous...	91	Do.	4,965	...	120	3,361	91	P.M.G. No. 34 I., dated 17th January 1894.
				Total, Works not commenced ...	...	...	...	84,472		
				Total grant for works ...	...	...	...	1,80,000		
		2. Land	92	Land compensation	...	...	...	20,000	92	
				Total, Eastern division ...	...	...	...	2,00,000		
				Total, Eastern section ...	...	...	...	2,33,700		
				WESTERN SECTION.						
				Works in Progress.						
				Main Canal.						
				(2) Main Canals and Branches.						
Kistna Western ...	...	2. Land	93	Compensation for land for widening Western Delta main canal.	4,080	996	500	500	93	
		12. Earthwork ...	94	Widening Western Delta main canal.	5,86,800	5,32,200	37,000	10,000	94	
		15. Miscellaneous...	95	Constructing a wall on the right side of the lock channel in rear of Sitanagaram lock.	3,900	...	2,500	1,400	95	
		Do. ...	96	Constructing a wharf wall 700 feet long on right bank of main canal at Sitanagaram.	7,000	...	4,000	3,000	96	

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1896–97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant for 1896–97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Works in Progress—cont.						
				Nizampatam Canal.						
				(3) Distributaries.						
Kistna Western —*cont.*	...	4. Earthwork ...	97	Improvements to west side channel	10,800	...	4,000	5,000	97	
				(4) *Drainage and Protective Works.*						
		2. Land	98	Compensation for land for Tenali drain	12,150	274	2,000	1,000	98	
		4. Earthwork ...	99	Excavating Tenali drain	56,658	43,336	8,000	5,000	99	
		5. Miscellaneous...	100	Fixing B. M. S. on Tenali drain	2,892	729	500	500	100	
				Bank Canal.						
				(2) Main Canals and Branches.						
		12. Earthwork ...	101	Improvements to Bank Canal	1,13,745	73,276	2,000	3,000	101	
				(3) Distributaries.						
		4. Earthwork ...	102	Improvements to Iskapalli channel	11,400	738	3,000	5,000	102	
		Do. ...	103	Excavating Varahapuram channel	9,680	...	500	6,000	103	
				(4) Drainage and Protective Works.						
		3. Works ...	104	Constructing aqueduct to carry Vellatúr channel across Repalle main drain straight cut.	14,200	...	100	5,000	104	
				Commamúr Canal.						
				(2) Main Canals and Branches.						
		2. Land... ...	105	Compensation for land for improvements to Commamúr canal.	16,068	13,942	100	300	105	P.M.G. No. 34 I., dated 17th January 1894.
		9. Navigation ...	106	Constructing side walls in rear channel of Commamúr lock.	6,150	2,171	3,000	1,000	106	
		12. Earthwork ...	107	Improvements to Commamúr canal	2,45,330	2,09,319	5,000	3,000	107	
				(4) Drainage and Protective Works.						
		3. Works ...	108	Constructing under tunnel at 8 miles 1½ furlongs of Commamúr canal.	37,000	23,192	12,000	2,000	108	
		4. Earthwork ...	109	Excavating Tungabhadra drain	2,01,111	1,37,175	20,000	20,000	109	
		5. Miscellaneous...	110	Tungabhadra drain ramps, &c	3,389	1,188	100	800	110	
				Total, Works in Progress ...	...	...	...	72,000		
				Works not Commenced.						
				Main Canal.						
				(2) Main Canals and Branches.						
		15. Miscellaneous...	111	Constructing cattle crossing at Tadepalli, 1 mile 4 furlongs.	3,790	...	...	2,500	111	
		Do. ...	112	Constructing cattle crossing at Kuchanapalli, 3 miles 1 furlong.	3,250	...	...	2,000	112	
		Do. ...	113	Constructing cattle crossing at Mallempudi, 5 miles 1 furlong.	3,190	...	...	2,000	113	
		Do. ...	114	Constructing cattle crossing at Vadheswaram, 3 miles 6 furlongs.	3,720	...	...	2,500	114	

GOVERNMENT OF MADRAS.

CHARGES—cont.

Part II—cont.

Detail of the Budget Estimate for Original Works under Irrigation Major Works in the Madras Presidency for the year 1896–97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant for 1896–97.	Item No.	Remarks and references.
				Works not Commenced—cont.	Rs.	Rs.	Rs.	Rs.		
				Main Canal—*cont.*						
				(2) Main Canals and Branches—*cont.*						
Kistna Western —*cont.*	...	15. Miscellaneous ...	115	Constructing cattle crossing at Revendrapad, 7 miles 4 furlongs.	3,340	...	...	2,000	115	
		Do. ...	116	Constructing cattle crossing at Tummapudi, 9 miles 1 furlong.	3,440	...	...	2,000	116	
		Do. ...	117	Constructing cattle crossing at Morampudi, 10 miles 6 furlongs.	3,000	...	...	2,000	117	
				Nizampatam Canal.						
				(3) Distributaries.						
		3. Works ...	118	Improvements to west side channel extension bridge at 14/3·210 miles.	3,430	...	...	3,000	118	
		Do. ...	119	Improvements to earthenware pipe sluices ...	2,650	...	...	2,000	119	
		Do. ...	120	Constructing an iron girder bridge on the Ponnur-Intur road at 6 miles 37 chains.	7,790	...	...	7,000	120	
				(4) Drainage and Protective Works.						
		4. Earthwork ...	121	Improving Pedapalli drain	8,670	...	...	8,500	121	
				Bank Canal.						
				(2) Main Canals and Branches.						
		11. Buildings ...	122	Constructing a rest-house at Sinangulapalem ...	3,620	...	2,000	1,500	122	
		Do. ...	123	Constructing a rest-house at Kollúr	2,610	...	1,500	1,000	123	
				(3) Distributaries.						
		2. Land ...	124	Compensation for Varahapuram channel ...	12,000	...	...	1,000	124	P.M.G. No. 34 I., dated 17th January 1894.
		4. Earthwork ...	125	Excavating Vullipolem branch channel ...	3,710	...	...	3,500	125	
		Do. ...	126	Do. Allaparru branch channel	5,860	...	...	5,000	126	
				(4) Drainage and Protective Works.						
		2. Land ...	127	Compensation for land for Repalle main drain straight cut.	12,490	...	500	1,000	127	
		4. Earthwork ...	128	Excavating the proposed straight cut for Repalle main drain.	39,760	...	...	20,000	128	
		5. Miscellaneous...	129	Constructing three cattle-crossings for Repalle main drain.	6,000	...	...	2,000	129	
		4. Earthwork ...	130	Excavating Allaparru drain	5,100	...	...	5,000	130	
		Do. ...	131	Do. Kuchenapudi drain	3,700	...	...	3,000	131	
		3. Works ...	132	Constructing an iron girder bridge at Chevalur over Repalle main drain.	10,160	...	...	5,000	132	
				Commamúr Canal.						
				(2) Main Canals and Branches.						
		11. Buildings ...	133	Constructing a rest-house at Karlapalem ...	2,980	...	2,000	500	133	
		9. Navigation ...	134	Do. lock establishment sheds at Kollimerla	2,790	...	...	2,000	134	
		Do. ...	135	Do. do. at Peda Ganjám.	2,740	...	...	2,000	135	
				(3) Distributaries.						
		4. Earthwork ...	136	Excavating Bápatla, 1st east branch	2,880	...	...	2,500	136	
		Do. ...	137	Do. 1st west branch	2,860	...	...	2,500	137	

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant for 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Works not Commenced—cont.						
				(4) Drainage and Protective Works.						
Kistna Western —*cont.*	...	3. Works ...	138	Combined bridge and aqueduct at 1 mile 7½ furlongs from head of Doppalapudi affluent.	...	...	...	8,000	138	
				Total, Works not commenced ...	...	...	...	1,01,000		
				MINOR WORKS COSTING Rs. 2,500 AND UNDER.						
				Main Canal.						
				(3) Distributaries.						
		5. Miscellaneous...	139	Fixing demarcation stones along the distributaries of Western delta main canal.	770	283	300	100	139	
		Do. ...	140	Demarcation stones for extending and improving No. 1 branch of main channel.	60	...	...	50	140	
		2. Land	141	Compensation for land required for extending No. 1 branch of main channel.	300	...	...	200	141	
		4. Earthwork ...	142	Improving and extending No. 1 branch of main channel.	400	...	...	300	142	
				Nizampatam Canal.						
				(2) Main Canals and Branches.						
		9. Navigation ...	143	Constructing lock establishment sheds at Intúr...	2,060	...	...	2,000	143	
		Do. ...	144	Constructing lock establishment sheds at Nallavada.	1,970	...	...	1,900	144	
		Do. ...	145	Constructing lock establishment sheds at Nizampatam tidal lock.	2,000	...	...	2,000	145	
		Do. ...	146	Constructing lock establishment sheds for 4th lascar at Kuchipudi lock.	350	...	...	340	146	P.M.G. No. 34 I., dated 17th January 1894.
				IMPROVEMENTS TO WEST SIDE CHANNEL.						
				(3) *Distributaries.*						
		2. Land ...	147	Compensation for land	600	...	...	200	147	
		3. Works ...	148	Regulator at 2/0 miles	1,680	...	...	1,000	148	
		Do. ...	149	Alterations to the existing Calingulah	60	...	...	60	149	
		Do. ...	150	Drop at 6/4 miles	650	...	...	600	150	
		Do. ...	151	Do. 8/0 miles	540	...	...	500	151	
		Do. ...	152	Alterations to the existing Calingulah at 19/1½ miles.	100	...	...	100	152	
		Do. ...	153	Weir in right bank at 19/4 miles	850	...	...	800	153	
		5. Miscellaneous.	154	Fixing demarcation stones for West side channel improvements.	760	...	...	500	154	
				BANK CANAL.						
				(2) *Main Canals and Branches.*						
		15. Miscellaneous.	155	Fixing demarcation stones on both sides of Bank canal.	2,200	1,301	500	400	155	
		9. Navigation ...	156	Constructing lock establishment sheds at Vellatúr.	2,340	...	...	2,000	156	

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for 1896-97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant for 1896-97.	Item No.	Remarks and references.
				BANK CANAL—*cont.*						
				(3) *Distributaries.*						
Kistna Western —*cont.*	...	3. Works ...	157	Constructing an under tunnel at 0/4 miles for Varahapuram channel.	Rs. 1,105	Rs. ...	Rs. ...	Rs. 500	157	
		Do. ...	158	Combined bridge and drop at 4 miles 5 furlongs for Varahapuram channel.	1,120	...	...	1,000	158	
		Do. ...	159	Tail escape and bridge	1,200	...	...	1,000	159	
		Do. ...	160	Earthenware pipe sluices	1,000	...	...	500	160	
		Do. ...	161	Isakapalli channel combined bridge and drop at 2 furlongs.	1,970	...	...	1,000	161	
		Do. ...	162	Sluice at 0/2 miles, left bank	470	...	...	200	162	
		Do. ...	163	Do. right bank	470	...	...	200	163	
		Do. ...	164	Small bridge at 2 miles 1 furlong 500 feet	1,710	...	...	500	164	
		Do. ...	165	Sluice at 2/2 miles	470	...	...	200	165	
		Do. ...	166	Small bridge 3 miles 410 feet	1,670	...	...	500	166	
		Do. ...	167	Sluice at 3/2 miles	470	...	...	200	167	
		Do. ...	168	Small bridge at 4/1½ miles	1,660	...	...	500	168	
		Do. ...	169	Sluice at 4/2½ miles	480	...	...	200	169	
		Do. ...	170	Small bridge at 5/0½ miles	1,650	...	...	500	170	
		Do. ...	171	Sluice at 6/0 miles	480	...	...	200	171	
		Do. ...	172	Small bridge at 7 miles 230 feet	1,650	...	...	500	172	
		Do. ...	173	Sluice at 7/4 miles, right bank	480	...	...	200	173	
		Do. ...	174	Do. do. left bank	480	...	...	200	174	
		Do. ...	175	Small bridge at 8 miles 5 furlongs 230 feet ...	1,530	...	...	500	175	
		Do. ...	176	Sluice at 8/4 miles on right bank ...	490	...	...	200	176	
		Do ...	177	Do do. on left bank	490	...	...	200	177	
				ARAVAPALLI CHANNEL.						P.M.G. No. 34 I., dated 17th January 1894.
				(3) *Distributaries.*						
		3. Works ...	178	Drop at 0/6 miles	410	...	...	200	178	
		Do. ...	179	Do. 3/4 miles	440	...	...	200	179	
		Do. ...	180	Tail escape	220	...	...	200	180	
		Do. ...	181	Vullipolem channel, tail escape	240	...	...	200	181	
		Do. ...	182	Allaparru branch channel, tail escape	230	...	...	200	182	
		Do. ...	183	Kunchenapudi branch channel, tail escape ...	210	...	...	200	183	
		Do. ...	184	Constructing surplus sluice at 573 feet from head of proposed surplus channel at 45 miles 6 furlongs of Bank canal.	2,090	...	1,000	1,000	184	
		Do. ...	185	Constructing head sluice to Raju channel at 573 feet from head of proposed surplus channel.	1,020	...	500	500	185	
		Do. ...	186	Constructing a drop at 330 feet from head of proposed channel at 45 miles 2 furlongs 310 feet, Bank canal.	540	...	200	300	186	
		Do. ...	187	Constructing a drop at 330 feet from head of proposed channel at 44 miles 4 furlongs 330 feet.	470	...	100	300	187	
		Do. ...	188	Constructing a drop at 3½ furlongs from head of Venkanna channel.	290	...	100	100	188	
		4. Earthwork ...	189	Excavating Aravapalli branch channel	2,360	...	...	1,000	189	
		Do. ...	190	Do. Kuchenapudi branch channel ...	1,840	...	...	1,000	190	
		2. Land ...	191	Compensation for land for Vullipolem branch channel.	600	...	...	200	191	
		Do. ...	192	Compensation for land for Allapuram branch channel.	800	...	...	200	192	

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Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for 1896–97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant for 1896–97.	Item No.	Remarks and references.
				ARAVAPALLI CHANNEL—*cont.*						
				(3) *Distributaries*—cont.						
Kistna Western—*cont.*	...	2. Land ...	193	Compensation for land for Kuchenapudi branch channel.	Rs. 350	Rs. ...	Rs. ...	Rs. 200	193	
		5. Miscellaneous ...	194	Cattle crossing No. 1 at 1 mile 1 furlong of Varahapuram channel.	520	...	...	500	194	
		Do. ...	195	Cattle crossing No. 2 at 1 mile 4 furlongs 560 feet.	570	...	...	550	195	
		Do. ...	196	Cattle crossing No. 3 at 2 miles 5 furlongs 500 feet.	615	...	...	600	196	
		Do. ...	197	Cattle crossing No. 4 at 3 miles 1 furlong 440 feet.	615	...	...	600	197	
		Do. ...	198	Cattle crossing No. 5 at 5 miles 4 furlongs ...	675	...	...	650	198	
		Do. ...	199	Cattle crossing No. 6 at 6 miles 7 furlongs 220 feet.	705	...	...	700	199	
		Do. ...	200	Cattle crossing No. 7 at 8 miles 1 furlong ...	725	...	...	700	200	
		Do. ...	201	Demarcation stones for Varahapuram channel ...	670	...	...	200	201	
		Do. ...	202	Do. for Aravapalli branch channel	420	...	...	200	202	
		Do. ...	203	Do. for Vullipolem branch ...	370	...	...	200	203	
		Do. ...	204	Do. for Allaparru branch ...	420	...	...	200	204	
		Do. ...	205	Do. for Kuchenapudi branch ...	380	...	...	200	205	
				COMMAMUR CANAL.						
				(2) *Main Canals and Branches.*						
		5. River and Hill torrent works.	206	Opening vents in the east side channel of Kollimerla aqueduct at 19 miles 5 furlongs.	1,150	...	500	500	206	
		9. Navigation ...	207	Constructing sheds for Lock Superintendent and four lascars at Nallamada lock.	2,160	190	1,500	500	207	
		Do. ...	208	Constructing sheds for Lock Superintendent and four lascars at Jagerlamudi.	2,360	...	...	2,000	208	P.M.G. No. 34 I., dated 17th January 1894.
		11. Buildings ...	209	Constructing sheds for lascars at Nallamada surplus sluices.	1,450	...	...	1,400	209	
		Do. ...	210	Constructing sheds for lascars at Parucheruvagu surplus sluices.	930	...	...	900	210	
		Do. ...	211	Constructing sheds for lascars at Alleruvagu surplus sluices.	580	...	...	500	211	
		15. Miscellaneous...	212	Constructing a cattle crossing at Garikapad at 23 miles 5 furlongs.	1,740	...	...	500	212	
		Do. ...	213	Constructing a cattle crossing at Cherukúr at 30/1.	750	...	...	500	213	
		Do. ...	214	Constructing a cattle crossing at Potucutla, 34 miles 5 furlongs.	1,200	...	...	500	214	
		Do. ...	215	Constructing a cattle crossing at Gasalapolem at 43 miles 3 furlongs 530 feet.	1,260	...	...	500	215	
				(3) *Distributaries.*						
		2. Land ...	216	Compensation for land for left bank of Tungabhadra side channel.	2,470	2,298	50	50	216	
		Do. ...	217	Compensation for land for Bápatla channel ...	500	49	50	100	217	
		Do. ...	218	Do. do. for 1st east branch ...	600	...	...	200	218	
		Do. ...	219	Do. do. for 1st west branch ...	700	...	...	200	219	
		3. Works ...	220	Constructing an iron girder bridge over the Santaravúr side channel at Timmasamudram.	1,190	...	500	1,000	220	
		Do. ...	221	Bápatla channel, 1st west branch tail escape weir.	440	...	...	200	221	

Detail of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for 1896-97—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant for 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				COMMAMUR CANAL—*cont.*						
Kistna Western —*cont.*	...	5. Miscellaneous ...	222	(4) *Drainage and Protective Works.* Fixing B.M. stones for Romperu side drain ...	1,800	432	300	500	222	
		Do. ...	223	Two cattle ramps at Rs. 500 each	1,000	...	...	1,000	223	
				Total, Minor Works costing Rs. 2,500 and under ...	...	...	...	44,400		
				Grand total, Western Section ...	...	...	...	2,17,400		
				Total, Kistna Delta System ...	...	...	...	4,51,100		
				OPEN CAPITAL ACCOUNT.						
				PENNERU ANICUT SYSTEM.						
Nellore ...	Nellore ...	2. Works ...	224	(1) *Head Works.* Providing screw-gearings to auxiliary head sluice.	5,500	...	...	5,417	224	Estimate under preparation.
	Venkanapalem.	14. Tanks and Reservoirs.	225	(2) *Main Canals and Branches.* Venkammapalem tank surplus weir	1,940	...	...	1,900	225	P.M.G. No. 181 I., dated 22nd January 1896.
				Total, Penneru Anicut System ...	...	...	...	7,317		
				SANGAM ANICUT SYSTEM.						
	Kanigiri reservoir.	14. Tanks and weirs.	226	(2) *Main Canals and Branches.* Providing screw-gearing shutters for the Kanigiri reservoir.	13,000	...	...	11,407	226	P.M.G. No. 998 I., dated 20th November 1895.
	Duvúr ...	4. Earthwork ...	227	(3) *Distributaries.* Improvements to dasabandam channel from 5 miles 2,592, right bank, Duvúr branch channel.	4,040	...	...	4,040	227	Estimate under preparation.
				Total, Sangam Anicut System ...	...	...	...	15,447		
				BARUR TANK SYSTEM.						
Salem	...	3. Masonry works.	228	(2) *Main Canals and Branches.* Surplus sluices in the weir of Barur tank ...	3,400	...	2,000	1,382	228	P.M.G. No. 1050 I., dated 22nd December 1894.
				CAUVERY DELTA SYSTEM.						
Tanjore ...	...	3. Works ...	229	*I. Head Works.* Providing an experimental pair of shutters to replace the body wall in arch No. 8 from right south branch of the Upper Coleroon anicut.	2,850	...	2,000	850	229	P.M.G. No. 485 I., dated 15th June 1895.
		Do. ...	230	Providing additional sets of experimental shutters to replace the body wall in arch No. 8 from right south branch of the Upper Coleroon anicut.	...	...	...	4,500	230	Estimate under preparation.

GOVERNMENT

CHARG

Part

Details of the Budget Estimate for Original Works under Irrigation

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.				
				CAUVERY DELTA SYSTEM—*cont.*				
				(2) *Main Canals and Branches.*				
Tanjore—*cont.*	...	3. Regulators ...	231	Providing screw-gearing shutters for the three central arches of Kodamurty regulator.				
		Do. ...	232	Improving Devanur dam across Veerasholan ...				
Negapatam ...	...	Do. ...	233	Constructing a regulator of 9 vents across the Vettar just below the off take of Odemboghyar.				
		Do. ...	234	Improvements to Nariangudy dam across Odemboghyar or Kodamurtyar.				
Tanjore ...	...	Do. ...	235	Fitting new shutters with screw-gearing to both head sluices at Melattur anicut and fixing two experimental scouring sluice shutters in dam.				
		Do. ...	236	Fixing new shutters to two head sluices of Katchamangalam anicut and two experimental shutters in body wall of dam.				
				(3) *Distributaries.*				
		3. Works ...	237	Restoring old Irrigation channel of Sithanevelur with necessary masonry works on Vettar, left bank.				
		Do. ...	238	Improving Vadakarai Kohoor channel, branching from Thirumalarajanar, left bank, miles 64.				
		2. Land ...	239	Do. do. ...				
		3. Works ...	240	Improving Maraneri Iyanar tank				
		Do. ...	241	Do. Peramboor tank				
				(4) *Drainage and Protective Works.*				
		3. Works ...	242	Reconstructing the old dam across the Iyavyanar.				
		Do. ...	243	Constructing a syphon for Aiyapadi drainage under Thennangondayam drainage.				
		Do. ...	244	Constructing a drainage sluice and foot bridge for Neikunnam and Vikramanar drainage channel.				
		Do. ...	245	Reserve for Works				
				Total capital, Cauvery Delta System ...				
				SRIVAIKUNTAM ANICUT SYSTEM.				
				(2) *Main Canals and Branches.*				
Tinnevelly ...	...	14. Tanks and Reservoirs.	246	Palayakoyal tank improvements				
			247	Reserve for works				
				Total, Srivaikuntam Anicut System ...				
				PERIYAR PROJECT.				
				(1) *Head Works.*				
Madura	Periyár ...	3. Works ...	248	Main dam	24,60,000	21,08,414	3,03,744	15,000
		Do. ...	249	Left bank escape	79,885	11,036	60,000	5,000
				Total, Head works ...	...	...	...	20,000

			Government of India Register No. 10 I of 1894–95. P.M.G. No. 1057 I., dated 22nd December 1894.
248			
249			

M. E. I.

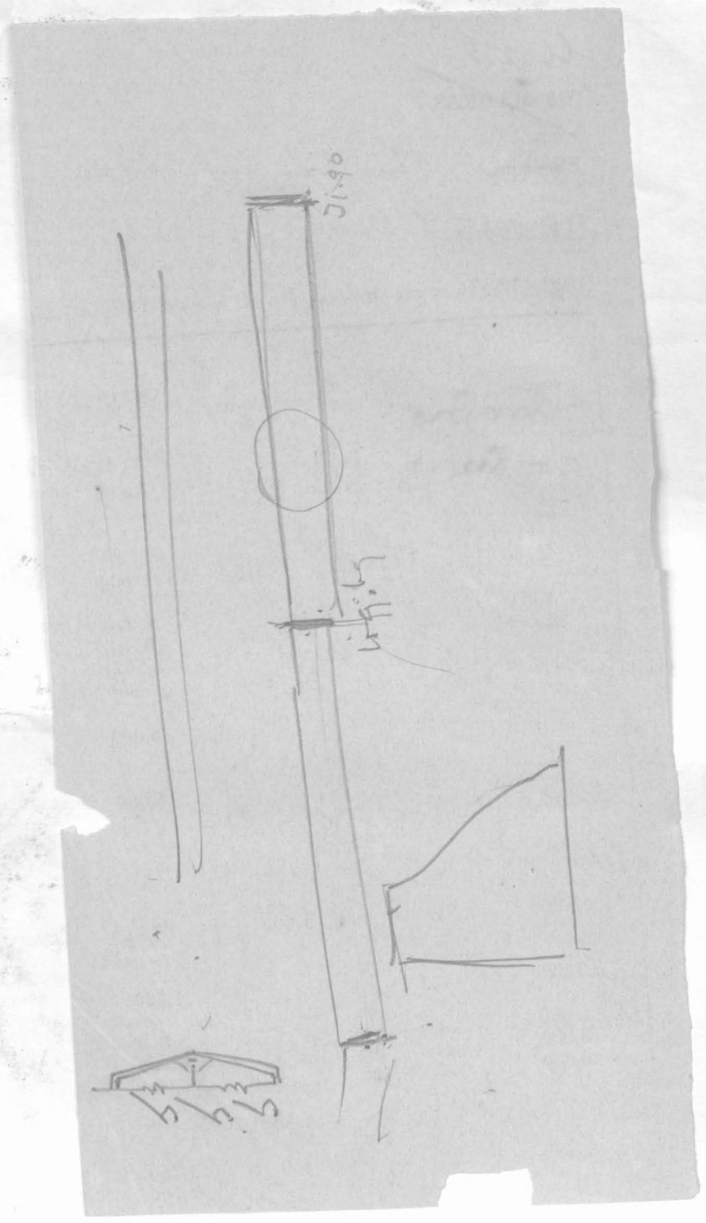
This has not been submitted to H.E., nor is it marked Issue.

Rec 9/6

D. I. E. I. May this be issued.

BR 9-6-96

12/6



Total, Head works ...

OF MADRAS.

ES—cont.

II—cont.

Major Works in the Madras Presidency for 1896–97—continued.

Amount of estimate.	Outlay		Grant for 1896–97.	Item No.	Remarks and references.
	To end of 1894–95.	Probable during 1895–96.			
Rs.	Rs.	Rs.	Rs.		
2,730	1,609	478	660	231	P.M.G. No. 561 I., dated 31st July 1894.
1,270	...	...	1,270	232	,, ,, 768 I. ,, 20th September 1895.
22,700	...	2,854	19,846	233	,, ,, 540 I. ,, 4th July 1895.
1,670	...	870	800	234	,, ,, 195 I. ,, 28th February 1895.
...	...	...	5,000	235	Estimates under preparation.
...	...	...	5,000	236	
3,260	..	1,500	1,760	237	P.M.G. No. 467 I., dated 1st June 1895.
1,320	...	...	1,320	238	P.M.G. No. 1022 I., dated 26th November 1895.
	...	...	300	239	
3.	..	...	3,920	240	P.M.G. No. 599 I., dated 31st July 1895.
€.)	...	...	6,030	241	Estimate under preparation.
3,800	...	150	1,750	242	P.M.G. No. 853 I., dated 7th November 1894.
1,700	...	...	1,700	243	,, ,, 768 I. ,, 20th September 1895.
2,670	...	...	2,670	244	,, ,, 909 I. ,, 1st November 1895.
...	...	...	4,550	245	
...	...	...	61,926		
2,580	...	...	2,580	246	P.M.G. No. 650 I., dated 12th August 1895.
...	...	...	8,000	247	
...	...	...	10,580		
24,60,000	21,08,414	3,03,744	15,000	248	Government of India Register No. 10 I of 1894–95.
79,885	11,036	60,000	5,000	249	P.M.G. No. 1057 I., dated 22nd December 1894.
...	...	...	20,000		

Details of the Budget Estimate for Original Works under Irrigation

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant for 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				PERIYAR PROJECT—*cont.*						
				(2) *Main Canals and Branches and* (3) *Distributaries.*						
Madura—*cont* ...	...	.....	250	Land	...	...	...	10,000	250	The distribution of these amounts by component works has not been reported by the Superintending Engineer, VI Circle.
			251	Works	...	...	...	1,00,000	251	
				Total, Main Canals and Branches and Distributaries ...	...	...	...	1,10,000		
				Total, Periyar Project ...	...	...	...	1,30,000		

Major Works in the Madras Presidency for 1896-97—continued.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part II—continued.

General Abstract of the Grants provided for above.

—	In India.	In England.	Total.
	Rs.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.			
35. Construction of Protective Irrigation Works.			
Rushikulya Project	1,53,646	...	1,53,646
IRRIGATION.			
42. MAJOR WORKS (WORKING EXPENSES).			
Gódávari Delta System	18,500	...	18,500
Kistna do.	14,000	...	14,000
Pennéru Anicut System	— 1,843	...	— 1,843
Sangam do.	4,020	...	4,020
Kurnool-Cuddapah Canal	6,000	...	6,000
Barur Tank Project	1,004	...	1,004
Cauvery Delta System	12,500	...	12,500
Srívaikuntam Anicut System	3,531	...	3,531
Total ...	57,712	...	57,712
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.			
49. Irrigation.			
Gódávari Delta System	69,000	...	69,000
Kistna do.	4,51,100	...	4,51,100
Pennéru Anicut System	7,317	...	7,317
Sangam do.	15,447	...	15,447
Barur Tank Project	1,382	...	1,382
Cauvery Delta System	61,926	...	61,926
Srívaikuntam Anicut System	10,580	...	10,580
Periyár Project	1,30,000	...	1,30,000
Total ...	7,46,752	...	7,46,752

GOVERNMENT OF MADRAS.

CHARGES.

Part III.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1896–97.

Executive division.	—	Estimate, 1896–97.		Estimate, 1895–96.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES).				
	Rushikulya Project.				
	Head Works.				
Rushikulya ...	Mahánadi section	6,000		6,000	
	Rushikulya do.	1,000		1,598	
	Do. canal	12,000		6,500	
	Mahánadi do.	5,106		2,000	
	TOTAL, RUSHIKULYA PROJECT ...	...	24,106	...	16,098
	Gódávari Delta System.				
Eastern Division.	Head works	25,000		18,000	
	Main canal	2,000		2,000	
	Bank do.	10,000		8,500	
	Cocanada canal	8,000		10,500	
	Sámalkót do.	8,000		9,200	
	Mundapetta do.	6,500		6,200	
	Coringa do.	5,000		7,400	
	Kovur-Manjair junction canal	500		500	
	Injeram canal	3,000		8,800	
	Tooliabhaga drain, 31 miles	500		700	
	Takee drain, 27 do.	4,000		600	
	Biccavole drain, 17 do.	500		600	
	Compensation	2,000		2,000	
			75,000		75,000
Central Division.	Head works	1,000		1,000	
	Main canal	6,000		5,000	
	Gunnaram canal	10,000		10,000	
	Bank canal	12,000		10,000	
	Amalápuram canal	7,000		7,000	
	Bendamurlanka canal	5,000		3,000	
	Billakurru canal	1,000		2,000	
	Drainages	17,000		2,000	
	Compensation	1,000		1,000	
			60,000		41,000
Western Division.	Head works	2,000		2,000	
	Main canal	6,000		5,000	
	Kakaraparu canal	3,000		3,000	
	Gostanadi and Velpur canal	10,000		10,000	
	Bank canal	7,000		6,000	
	Narsápur do.	13,000		12,000	
	Ellore do.	15,000		15,000	
	Attili do.	6,000		9,000	
	Junction do.	1,000		2,000	
	Venkiah and Weyeru canal	8,000		5,000	
	Undi canal	9,000		8,000	
	Nakkala drain, 25 miles				
	Kaza do. 16 do.				
	Mogultur do.				
	Gonter do.	20,427		20,000	
	Gostanadi do.				
	Yannamadurru drain, 32 miles				
	Compensation	2,000		2,000	
			1,02,427		99,000
	TOTAL, GODAVARI DELTA SYSTEM ...	...	2,37,427	...	2,15,000

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1896–97—cont.

Executive division.	—	Estimate, 1896–97. Amount.	Estimate, 1896–97. Total.	Estimate, 1895–96. Amount.	Estimate, 1895–96. Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Kistna Delta System.				
	Eastern Section.				
Kistna Eastern Division.	Ellore canal	20,000		20,000	
	Masulipatam canal	24,000		24,000	
	Ryves' canal	16,500		10,000	
	Pulleru do.	21,301		18,000	
	Polraz do.	15,000		10,000	
	Bantumilli canal	15,000		7,000	
	Pamarru junction canal	12,000		1,000	
	Pedalanka channel			...	
			1,23,801		90,000
Kistna Northern Division.	Head works				
	Main canal	10,000		20,000	
	Ellore do.	5,000		500	
	Masulipatam canal	4,000		1,500	
	Ryves' canal	2,000		4,200	
		5,000		1,500	
			26,000		27,700
Kistna Western Division.	Main canal	5,000		15,000	
	Bank do.	30,000		20,000	
	Commamur canal	40,000		30,000	
	Nizampatam do.	24,500		10,000	
	Compensation	500		...	
			1,00,000		75,000
	TOTAL, KISTNA DELTA SYSTEM ...	...	2,49,801	...	1,92,700
	Pennéru Anicut System.				
Nellore Division.	Head works	5,000		5,000	
	Main canal	2,000		2,000	
	Jaffer Sahib's canal	2,500		2,500	
	Sarvapalle do.	1,500		1,500	
	Kistnapatam do.	3,000		3,000	
	Delta tanks and reservoirs	10,000		10,000	
	Total ...	24,000		24,000	
	Deduct old maintenance charges ...	*13,860		*13,860	
			10,140		10,140
	NET TOTAL, PENNERU ANICUT SYSTEM ...	...	10,140	...	10,140

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896–97.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1896–97—cont.

Executive division.	—	Estimate, 1896–97. Amount.	Estimate, 1896–97. Total.	Estimate, 1895–96. Amount.	Estimate, 1895–96. Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Sangam Anicut System.				
Nellore Division—*cont.*	Head works	4,000		6,000	
	Kanigiri canal	23,000		20,000	
	Duvur do.	3,000		4,000	
	Total ...	30,000		30,000	
	Deduct old maintenance charges ...	*11,884		*11,884	
			18,116		18,116
	NET TOTAL, SANGAM ANICUT SYSTEM ...	...	18,116	...	18,116
	Kurnool-Cuddapah Canal.				
Kurnool Division.	Annual maintenance—				
	Head works	1,200		4,000	
	First section	5,800		8,500	
	Second do.	2,900		3,500	
	Third do.	5,500		8,500	
	Fourth do.	6,400		3,500	
	Fifth do.	5,300		6,500	
	Sixth do.	11,300		7,000	
	Distributaries	11,700		15,000	
	Drainages and Protective Works	900		1,500	
	Special Repairs	5,000		12,000	
	Reserve	1,000		2,000	
			57,000		72,000
	TOTAL, KURNOOL-CUDDAPAH CANAL ...	...	57,000	...	72,000
Salem Division.	Barur Tank Project	1,500	1,500	2,000	2,000
	Cauvery Delta System.				
Tanjore Division.	Upper Coleroon anicut	2,000		2,000	
	Grand anicut	3,000		3,000	
	Cauvery	5,800		4,800	
	Kodumurti and Puthaur	1,000		1,000	
	Arasillár	1,250		1,250	
	Trimulrajen	1,700		1,700	
	Mudicondanar	1,500		1,500	
	Nattar	300		300	
	Keerthemanar	200		200	
	Veerasholen	600		600	
	Solasudamaniar	700		700	
	Munjalaur	910		910	
	Vellapar	800		800	
	Vanjeaur	300		300	
	South Puthar	200		200	
	Vennár	2,000		2,000	
	Vettár	2,090		2,090	
	Odemboghy	100		100	
	Nundalar	1,200		1,200	

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896–97.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1896-97—cont.

Executive division.	—	Estimate, 1896-97. Amount.	Estimate, 1896-97. Total.	Estimate, 1895-96. Amount.	Estimate, 1895-96. Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Cauvery Delta System—continued.				
Tanjore Division—*cont.*	Vicramanar	1,050			
	Kona voikal	600		1,050	
	Pudumaniar	1,500		600	
	Ooppanaur	800		1,500	
	Vadavaur	500		800	
	Munneyar	2,000		500	
	Noolar	1,000		2,000	
	Shollanar	200		1,000	
	Palavar	2,000		200	
	Iyavianar	1,600		2,000	
	Mainkarainar	1,200		1,600	
	Thirunagari channel	200		1,200	
	Ambanar	200		200	
	Kadalayar	600		200	
	Chittar	400		600	
	Thenkorayar	200		400	
	Pravadynar	100		200	
	Puthaur	200		100	
			40,000	200	39,000
Negapatam Division.	Vennáur	1,100		1,100	
	Vettáur	1,400		1,400	
	Odemboghyar	1,500		2,500	
	Corayaur	2,500		2,500	
	Pamanayaur	3,500		4,500	
	Pandavyaur	1,000		1,000	
	Vellayaur	1,500		1,500	
	Athiveeraramanar	2,000		2,000	
	Harichendranady	800		800	
	Mullayaur	1,976		2,374	
	Iyanar	200		200	
	Drainage and protective works	4,500		4,500	
	Unforeseen and incomplete works	...		795	
			21,976		25,169
Trichinopoly Division.	Annual maintenance—				
	Punguni channel	840		840	
	Peruvalai do.	900		900	
	Iyen do.	1,200		1,200	
	Special Repairs—				
	Punguni channel	200		1,860	
	Peruvalai do.	1,000		2,500	
	Iyen do.	1,500		1,700	
	Compensation	360		1,000	
			6,000		10,000
	Total ...	...	67,976	...	74,169
	Deduct old maintenance charges ...	...	*1,05,634	...	*1,05,634
	NET TOTAL, CAUVERY DELTA SYSTEM ..	...	— 37,658	...	— 31,465

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896-97.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1896-97—continued.

Executive division.	—	Estimate, 1896-97. Amount.	Estimate, 1896-97. Total.	Estimate, 1895-96. Amount.	Estimate, 1895-96. Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Srivaikuntam Anicut System.				
Tinnevelly Division.	Head works	500		400	
	North main channel	3,500		1,000	
	Tanks fed by the above channel	4,000		5,000	
	South main channel	3,000		1,000	
	Tanks fed by the above channel	5,000		4,783	
			16,000		12,183
	Deduct old maintenance charges ...	...	*5,208	...	*5,208
	NET TOTAL, SRIVAIKUNTAM ANICUT SYSTEM ...	...	10,792	...	6,975

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896-97.

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General Abstract of the Grants provided for above.

	In India.	In England.	Total.
IMPERIAL.	Rs.	Rs.	Rs.
Major Works.			
42. IRRIGATION (WORKING EXPENSES).			
Rushikulya Project	24,106	...	24,106
Gódávari Delta System	2,37,427	...	2,37,427
Kistna do. do.	2,49,801	...	2,49,801
Pennéru Anicut do.	10,140	...	10,140
Sangam Anicut Project	18,116	...	18,116
Kurnool-Cuddapah Canal	57,000	...	57,000
Barur Tank Project	1,500	...	1,500
Cauvery Delta System	— 37,658	...	— 37,658
Srivaikuntam Anicut System	10,792	...	10,792
Total ...	5,71,224	...	5,71,224

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1896–97.

	Budget Estimate, 1896–97.	Revised Estimate, 1895–96.
IMPERIAL.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works	1,53,646	1,89,667
Deduct item for which no charge for Establishment is admissible.		
Compensation for land	10,000	23,000
Net Grant ...	1,43,646	1,66,667
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	33,039	38,333
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs	6,28,936	6,58,177
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Gódávari Delta System	5,000	4,124
Do. do. Kistna do.	500	...
Do. do. Cauvery do.	360	1,000
Total ..	5,860	5,124
Net Grant ..	6,23,076	6,53,053
A. 23 per cent. on the Net Grant	1,43,307	1,50,202
Direct Revenue	2,78,000	2,80,000
Deduct estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	93,000	93,000
Net Direct Revenue ...	1,85,000	1,87,000
B. 10 per cent. on Net Direct Revenue	18,500	18,700
Irrigation Revenue from Major (Productive) Works exclusive of enhanced share of Land Revenue	64,74,000	57,56,000
Add estimated collections in the Revenue Department of water-rates levied on land irrigated under the Kurnool-Cuddapah Canal	97,895	97,895
Total ...	65,71,895	58,53,895

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part IV—continued.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1896–97—continued.

	Budget Estimate, 1896–97.	Revised Estimate, 1895–96.
	Rs.	Rs.
C. 6 per cent. on Irrigation Revenue	3,94,314	3,51,234
Total, A + B + C ...	5,56,121	5,20,136
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	7,46,752	10,24,293
Deduct item for which no charge for Establishment is admissible.		
Land compensation	40,150	36,438
Net Grant ...	7,06,602	9,87,855
Contribution to Provincial Funds at 23 per cent. on Net Grant ...	1,62,518	2,27,207

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A.

Distribution of the Provision for Establishment by System of Canals for the year 1896–97.

—	Establishment Charges.						Total.
	23 per cent. on the Grant for Works and Repairs, exclusive of Land Compensation.		10 per cent. on Direct Revenue.		6 per cent. on Indirect Revenue.		
	Grant.	Per-centage.	Estimated Revenue.	Per-centage.	Estimated Revenue.	Per-centage.	
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.							
35. Construction of Protective Irrigation Works.							
Rushikulya Project	1,43,646	33,039	...	...	...	...	33,039
IRRIGATION.							
42. MAJOR WORKS (WORKING EXPENSES).							
Gódávari Delta System	2,50,927	57,713	1,20,000	12,000	27,56,000	1,65,360	2,35,073
Kistna do. do.	2,63,301	60,559	48,000	4,800	23,59,000	1,41,540	2,06,899
Pennéru Anicut System	8,297	1,908	400	40	1,46,000	8,760	10,708
Sangam Anicut Project	22,136	5,091	600	60	2,62,000	15,720	20,871
Kurnool-Cuddapah Canal	63,000	14,490	10,000	1,000	97,895	5,874	21,364
Barur Tank Project	2,504	576	...	...	12,000	720	1,296
Cauvery Delta System	—25,518	—5,869	3,500	350	8,33,000	49,980	44,461
Srivaikuntam Anicut System ...	14,323	3,295	1,000	100	1,06,000	6,360	9,755
Rushikulya Project	24,106	5,544	1,500	150	...	...	5,694
Total ..	6,23,076	1,43,307	1,85,000	18,500	65,71,895	3,94,314	5,56,121
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.							
49. IRRIGATION.							
Gódávari Delta System	64,500	14,835	...	...	...	...	14,835
Kistna Delta System	4,25,750	97,922	...	...	...	...	97,922
Pennéru Anicut System	7,317	1,683	...	...	...	...	1,683
Sangam Anicut Project	15,447	3,553	...	...	...	...	3,553
Barur Tank System	1,382	318	...	...	...	...	318
Cauvery Delta System	61,626	14,174	...	...	...	...	14,174
Srivaikuntam Aniut System	10,580	2,433	...	...	...	...	2,433
Periyár Project	1,20,000	27,600	...	...	...	...	27,600
Total ..	7,06,602	1,62,518	...	...	...	...	1,62,518
GRAND TOTAL ..	14,73,324	3,38,864	1,85,000	18,500	65,71,895	3,94,314	7,51,678

GOVERNMENT OF MADRAS.

CHARGES.

Part V.

Detail of the Budget Estimate for Tools and Plant under Irrigation Major Works in the Madras Presidency for the year 1896–97.

—	Budget Estimate, 1896–97.	Budget Estimate, 1895–96.
IMPERIAL.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Tools and Plant required for the Rushikulya Project	2,315	2,000
IRRIGATION.		
42. MAJOR WORKS (WORKING EXPENSES).		
Godavari Delta System.		
Eastern Division.		
8. Repairs and carriage—		
Maintenance of floating plant including existing ferries	20,500	20,830
Special repairs to do. do. do.	5,000	5,000
License fees of Government boats	...	6,500
Charges on account of steamers used by Public Works officers on duty ...	2,500	2,500
Machinery	2,000	400
Total ..	30,000	35,230
Central Division.		
8. Repairs and carriage, repairs to floating plant, tools and machinery	4,000	...
Western Division.		
2. Plant and machinery	1,500	7,000
3. Tools	500	500
8. Repairs and carriage—		
Repairs to floating plant	3,000	5,000
Tools		
Machinery		
Total ..	5,000	12,500
TOTAL, GODAVARI DELTA SYSTEM ..	39,000	47,730
Kistna Delta System.		
Eastern Division.		
1. Scientific instruments	...	500
8. Repairs and carriage—		
Annual maintenance of ferry boats	4,000	4,000
Special repairs to floating plant	...	1,000
Do. to ferry boats	1,000	...
Repairs and conveyance of tools, &c.	500	500
Total ..	5,500	6,000
Northern Division.		
1. Scientific instruments	500	500
2. Machinery (two Cockburn's dredgers)	...	10,000
3. Tools—New supply	500	1,200
Navigation Plant—		
2. Punts for maintaining two Cockburn's dredgers	8,000	...

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part V—continued.

Detail of the Budget Estimate for Tools and Plant under Irrigation Major Works in the Madras Presidency for the year 1896–97—cont.

—	Budget Estimate, 1896–97.	Budget Estimate, 1895–96.
	Rs.	Rs.
IRRIGATION—continued.		
42. MAJOR WORKS (WORKING EXPENSES)—continued.		
Kistna Northern Division—continued.		
8. Repairs and carriage—		
Annual repairs of floating plant	25,500	20,000
Special repairs of do.	9,300	6,000
Repairs to machinery	700	5,324
Charges on account of steamer used by Public Works officers	800	800
Licensing Government floating plant	...	5,500
Repairs and carriage of tools and plant	500	500
Reserve	...	2,500
Total ..	45,800	52,324
Western Division.		
8. Repairs and carriage—		
Repairs to dredgers		
Maintenance of floating plant	4,000	4,000
Repairs and conveyance of tools, &c.		
Do. to scientific instruments		
Total ..	4,000	4,000
TOTAL, KISTNA DELTA SYSTEM ..	55,300	62,324
Penneru Anicut System.		
8. Repairs and carriage	...	...
Deduct old maintenance charges	* 5	* 5
NET TOTAL, PENNERU ANICUT SYSTEM ..	— 5	— 5
Sangam Anicut System.		
8. Repairs and carriage	50	74
Deduct old maintenance charges	* 57	* 57
NET TOTAL, SANGAM ANICUT SYSTEM ..	— 7	17
Kurnool-Cuddapah Canal.		
1. Scientific and mathematical instruments	300	300
8. Repairs and carriage—		
Annual maintenance of floating plant	1,036	1,416
Miscellaneous and sundries	300	300
TOTAL, KURNOOL CANAL ..	1,636	2,016

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896–97.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part V—continued.

Detail of the Budget Estimate for Tools and Plant under Irrigation Major Works in the Madras Presidency for the year 1896–97—cont.

—	Budget Estimate, 1896–97.	Budget Estimate, 1895–96.
	Rs.	Rs.
IRRIGATION—continued.		
42. MAJOR WORKS (WORKING EXPENSES)—continued.		
Cauvery Delta.		
Tanjore division—		
8. Repairs and carriage	200	200
Negapatam division—		
1. Scientific instruments	200	400
8. Repairs and carriage	100	100
Total ...	300	500
TOTAL, CAUVERY DELTA SYSTEM ..	500	700
Deduct old maintenance charges ...	* 1,603	* 1,603
NET TOTAL, CAUVERY DELTA SYSTEM ..	— 1,103	— 903
Srivaikuntam Anicut System—		
8. Repairs and carriage	...	...
Deduct old maintenance charges ...	* 78	* 78
NET TOTAL, SRIVAIKUNTAM ANICUT SYSTEM ..	— 78	— 78
Rushikulya project system—		
8. Repairs and carriage	200	200
TOTAL, 42. MAJOR WORKS (WORKING EXPENSES) ..	94,943	1,11,301
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Gódávari Delta System.		
Eastern division—		
3. Tools	165	...
Kistna Delta System.		
Eastern division—		
4. Navigation plant—		
Ferry boats	5,000	10,000
Northern division—		
4. Navigation plant—		
Two double trap punts	8,900	...
Western division—		
Tramway from Kolanukoduru quarry	10,000	...
4. Navigation plant—		
Ferry ballacuts	2,078	5,000
TOTAL, KISTNA DELTA SYSTEM ..	25,978	15,000
Srivaikuntam Anicut System.		
3. Tools and Plant—Tinnevelly division	87	...
Periyár Project.		
Tools and Plant ... { No. I division	5,000	30,000
{ Madura do.	500	500
TOTAL, PERIYAR PROJECT ..	5,500	30,500
TOTAL, CAPITAL ACCOUNT ..	31,730	45,500

* These sums are provided in the budget estimates for Minor Works and Navigation for 1896–97.

GOVERNMENT OF MADRAS.

CHARGES.

Part VI.

Abstract of the Probable Increase or Decrease in the Suspense Accounts of Irrigation Major Works in the Madras Presidency for the year 1896-97—Nil.

All Suspense Accounts are included under Provincial, 45. Civil Works.

MINOR WORKS AND NAVIGATION.

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION MINOR WORKS AND NAVIGATION

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1896-97.

MADRAS,
24th April 1896.

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Secretary to Govt., P.W.D.,
Irrigation Branch.

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GOVERNMENT OF MADRAS.

REVENUE.

Abstract Budget Estimate of Revenue expected from Irrigation Minor Works and Navigation in the Madras Presidency for the year from 1st April 1896 to 31st March 1897.

	Actual Realizations, 1894–95.	Budget Estimate, 1895–96.	Revised Estimate, 1895–96.	Budget Estimate, 1896–97.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.
IRRIGATION AND NAVIGATION WORKS.				
Works for which Capital and Revenue Accounts are kept.				
Thadapalli Channel System	80	60	80	80
Kalingaroyen Channel System	...	600	420	420
Pálár Anicut System	1,079	2,300	1,540	1,540
Poiney Anicut System	689	740	600	600
Cheyáru Anicut System	129	130	200	200
Chembrambakam Tank System	50	10	30	30
Madras Water-supply and Irrigation Extension	13,462	12,400	13,380	13,380
Valluru Anicut System	4	...	...	...
Tirukkóyilúr Anicut System	491	600	570	570
Mehamattur Anicut System	20	10	30	30
Vriddhachalam Anicut System	55	50	50	50
Shatiatope Anicut System	315	250	300	300
Pelandorai Anicut System	273	300	250	250
Lower Coleroon Anicut System	1,619	1,100	1,000	1,000
Maradur Anicut System	192	250	350	350
Buckingham Canal	1,09,498	1,08,000	1,10,000	1,10,000
Védáranniyam Canal	1,136	1,200	1,200	1,200
Total ..	1,29,095	1,28,000	1,30,000	1,30,000
Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	9,693	8,000	10,000	10,000
AGRICULTURAL WORKS.				
Works for which neither Capital nor Revenue Accounts are kept ...	27,096	43,000	30,000	30,000
TOTAL ..	1,65,884	1,79,000	1,70,000	1,70,000

GOVERNMENT OF MADRAS.

CHARGES.

Abstract Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year from 1st April 1896 to 31st March 1897.

	Reference to Detailed Estimate.	Actual Outlay, 1894–95.	Budget Estimate, 1895–96.	Revised Estimate, 1895–96.	Budget Estimate, 1896–97.
PROVINCIAL.					
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	PAGES.	Rs.	Rs.	Rs.	Rs.
CAPITAL.					
1. Works ... In progress ... ... Rs. 3,07,323; Not commenced ... Rs. 6,15,535	8 to 19	3,26,430	6,16,455	5,25,968	9,22,858
2. Establishment	31	73,392	1,11,745	1,12,786	1,78,019
3. Tools and Plant	33	11,191	21,300	51,100	21,733
Total, Capital ...		4,11,013	7,49,500	6,89,854	11,22,610
REVENUE.					
1. Extensions and Improvements. In progress ... ...; Not commenced Rs. 22,659	20 to 23	21,974	38,560	25,036	22,659
2. Maintenance and Repairs	28 & 29	2,05,427	1,72,013	1,88,740	1,72 209
3. Establishment	31	64,027	61,232	62,168	57,819
4. Tools and Plant	33	4,223	3,875	3,875	3,875
Refunds of Revenue	...	73	...	...	...
Total, Revenue ...		2,95,724	2,75,680	2,79,819	2,56,562
Total Minor Works for which Capital and Revenue Accounts are kept		7,06,737	10,25,180	9,69,673	13,79,172
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works— Major ... In progress ... ... Rs. 85,200; Not commenced ... Rs. 23,800	22 & 23	1,97,896	1,28,200	1,23,808	1,09,000
Minor	22 & 23	3,72,433	1,91,510	1,32,871	2,13,857
2. Repairs	29	6,83,497	9,78,946	9,55,551	10,34,051
3. Establishment	32	5,92,409	5,71,626	5,32,420	5,42,994
4. Tools and Plant	33	18,756	19,538	18,654	19,856
Refunds of Revenue	...	53	...	...	...
Total Minor Works for which neither Capital nor Revenue Accounts are kept		18,65,044	18,89,820	17,63,304	19,19,758
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works— Major ... In progress ... ... Rs. 92,500; Not commenced	24 & 25	64,916	91,532	1,03,725	92,500
Minor	24 & 25	18,953	18,230	12,448	13,900
2. Repairs	29	2,13,265	2,43,692	3,00,560	3,74,389
3. Establishment	32	64,423	78,694	91,949	1,08,407
4. Tools and Plant	33	4,032	4,852	6,341	6,874
Refunds of Revenue	...	117	...	...	...
Total, Agricultural Works ...		3,65,706	4,37,000	5,15,023	5,96,070
Total, Provincial ...		29,37,487	33,52,000	32,48,000	38,95,000

GOVERNMENT OF MADRAS.

CHARGES—continued.

Abstract Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year from 1st April 1896 to 31st March 1897—continued.

	Reference to Detailed Estimate.	Actual Outlay, 1894–95.	Budget Estimate, 1895–96.	Revised Estimate, 1895–96.	Budget Estimate, 1896–97.
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.	PAGES.	Rs.	Rs.	Rs.	Rs.
		RS.			
Works ... In progress		4,85,023			
Works ... Not commenced		8,89,751	10,02,602	10,84,487	9,23,856	13,74,774
Repairs			11,02,189	13,94,651	14,44,851	15,80,649
Establishment			7,94,251	8,23,297	7,99,323	8,87,239
Tools and Plant			38,202	49,565	79,970	52,338
Refunds of Revenue			243	...	...	...
Total, Provincial ...			29,37,487	33,52,000	32,48,000	38,95,000
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
I. Original Works			9,721	6,000	8,000	3,000
II. Repairs			763	2,000	16,000	5,000
Total ...			10,484	8,000	24,000	8,000

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

Details of the Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year 1896–97, arranged by Projects and Objects of Work.

PROVINCIAL.	Amount of Sanctioned Estimate.	Actual Outlay to end of 1894–95.	Budget Estimate, 1895–96.	Probable Outlay during 1895–96 (Revised Estimate).	Budget Estimate, 1896–97.	Remarks and References.
43. MINOR WORKS AND NAVIGATION.	Rs.	Rs.	Rs.	Rs.	Rs.	
Minor Works for which Capital and Revenue Accounts are kept.						
CAPITAL.						
Works in Progress.						
Kurnool-Cuddapah Canal ...	19,350	...	...	6,150	18,450	Government of India Register No. 24 I. of 1895–96 and P.M.G. No. 766 I., dated 20th September 1895. Estimates for other works under preparation.
Munnyeru Project	3,68,000	25,535	1,23,000	1,17,759	1,23,000	P.M.G. No. 1089 I., dated 17th December 1893.
Dondapad Tank Project ...	1,27,193	93,315	27,100	37,165	10,850	P.M.G. No. 191 I., dated 25th Feb. 1892; No. 376 I., dated 9th May 1894; No. 530 I., dated 16th July 1894, and No. 615 I., dated 29th August 1894.
Sagiléru Project	3,61,000	1,40,253	98,400	1,27,980	1,10,700	P.M.G. No. 10 I., dated 9th January 1894 and No. 915 I., dated 21st November 1894.
Thadapalli Channel System ...	26,600	3,962	12,900	12,900	8,610	P.M.G. No. 957 I., dated 6th Nov. 1893.
Pálár Anicut System	20,06,798	19,35,314	9,000	16,735	12,300	Government of India Register No. 17 I. of 1884–85. *Vide* P.M.G. No. 83 I., dated 30th January 1891; No. 1002 I., dated 17th November 1893; No. 1053 I., dated 2nd December 1893; No. 652 I., dated 14th August 1895; No. 84 I., dated 24th January 1896 and No. 303 I., dated 31st March 1896.
Cheyáru Anicut System ...	1,62,050	1,42,644	8,400	14,000	3,690	P.M.G. No. 855 I., dated 6th October 1893; No. 328 I., dated 9th April 1895; No. 822 I., dated 7th October 1895; No. 945 I., dated 11th November 1895; No. 991 I., dated 19th November 1895, and No. 1055 I., dated 5th December 1895.
Lower Coleroon Anicut System.	2,20,050	9,261	66,300	48,596	78,720	P.M.G. No. 835 I., dated 8th October 1892; No. 960 I., dated 6th November 1893; No. 372 I., dated 5th May 1894, and No. 181 I., dated 25th Feb. 1895.
Maradur Anicut System ...	3,600	...	...	2,475	6,150	P.M.G. No. 1006 I., dated 14th December 1894; Estimate for another work under preparation.
Buckingham Canal	86,14,000	80,05,611	1,67,900	1,95,895	1,50,140	Government of India Register No. 15 I. of 1883–84; P.M.G. No. 3 I., dated 8th January 1895.
Canal from the Madras Harbour to the Buckingham Canal.	9,50,000	...	2,00,000	50,000	6,00,000	P.M.G. No. $\frac{1084}{A}$ I., dated 14th December 1895.
Other Projects	...	...	36,500	60,199	...	
Total, Capital ..	...	...	7,49,500	6,89,854	11,22,610	
REVENUE.						
Ganjám Minor Rivers System ...	...	...	...	1,245	3,690	
Cumbum Tank System ...	...	...	2,460	676	2,460	
Thadapalli Channel System ...	...	...	3,000	2,756	4,300	
Arkenkotta do. do. ...	...	...	1,800	1,677	1,840	
Kalingaroyen do. do. ...	...	...	1,300	3,609	2,500	
Pálár Anicut System	...	...	47,010	42,105	43,602	
Poiney do. do.	...	...	13,600	22,196	12,360	
Cheyáru do. do.	...	...	21,000	27,772	16,010	
Chembrambakam Tank System.	...	...	— 3,000	— 2,998	— 2,040	
Madras Water-supply and Irrigation Extension.	...	...	1,340	1,438	— 270	
Valluru Anicut System ...	...	...	600	600	900	
Tirukkóyilúr Anicut System ...	...	...	17,000	19,457	12,350	

GOVERNMENT OF MADRAS.

CHARGES.

Part I—continued.

Details of the Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year 1896–97, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1894–95.	Budget Estimate, 1895–96.	Probable Outlay during 1895–96 (Revised Estimate).	Budget Estimate, 1896–97.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION—*continued.*						
Minor Works for which Capital and Revenue Accounts are kept—continued.						
REVENUE—*cont.*						
Mehamattur Anicut System ...	...	...	2,500	4,118	1,850	
Vriddhachalam Anicut System...	...	...	4,300	5,724	3,700	
Shatiatope Anicut System ...	...	...	17,200	10,944	14,660	
Pelandorai do. do. ...	...	...	6,000	4,430	4,190	
Lower Coleroon Anicut System.	...	...	29,630	18,881	28,390	
Nandyar Channel	...	...	...	2,534	5,050	
Maradur Anicut System ...	...	...	14,000	16,515	11,110	
Chilka Lake Canal	...	...	370	370	370	
Buckingham Canal	...	...	91,700	91,900	85,110	
Védáranniyam Canal	...	...	3,870	3,870	4,430	
Total, Revenue ..	...	...	2,75,680	2,79,819	2,56,562	
Total, Minor Works for which Capital and Revenue Accounts are kept	...	...	10,25,180	9,69,673	13,79,172	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
Old maintenance charges ...	...	...	4,04,662	4,17,922	4,21,282	
Ordinary Minor Works ...	...	...	8,43,758	7,51,890	7,90,946	
Tank Restoration Works—						
Investigation	...	...	58,200	26,125	...	
Execution	...	...	5,52,900	5,32,367	6,77,530	
Minor Works, Revenue Department.	...	...	30,000	35,000	30,000	
Total ...	...	...	18,89,820	17,63,304	19,19,758	
Total, Irrigation and Navigation Works	...	...	29,15,000	27,32,977	32,98,930	
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Constructing left flood bank of the Nagavalli river between Annavaram and Ampli villages.	5,730	...	5,032	2,030	3,000	P.M.G. No. 681 I., dated 10th August 1892.
Raising the Vasista Gódávari right bank from anicut to Chinchinada ferry.	72,800	1,785	10,000	10,000	30,000	P.M.G. No. 56 I., dated 19th Jan. 1893.

GOVERNMENT OF MADRAS.

CHARGES.

Part I—continued.

Details of the Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year 1896–97, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1894–95.	Budget Estimate, 1895–96.	Probable Outlay during 1895–96 (Revised Estimate).	Budget Estimate, 1896–97.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS—*continued.*						
Works for which neither Capital nor Revenue Accounts are kept—continued.						
MAJOR ORIGINAL WORKS—*cont.*						
In Progress—cont.						
Raising Vasista Gódávari right bank from Chinchinada ferry to Narsapur.	8,300	1,924	1,000	4,000	3,000	P.M.G. No. 431 I., dated 16th May 1893.
Raising the Vasista left bank from head to junction of Gunnavaram canal.	33,500	10,992	6,000	6,000	10,000	P.M.G. No. 101 I., dated 4th Feb. 1893.
Diverting Vinetyam right bank along Pasarlapudi channel left bank.	16,000	2,417	5,000	5,000	11,000	P.M.G. No. 1043 I., dated 10th Dec. 1893.
Raising the Kistna river left bank.	78,300	14,527	10,000	10,000	10,000	P.M.G. No. 278 I., dated 28th March 1893.
Rest-house at Avanigedda ...	3,120	...	3,000	3,000	500	P.M.G. No. 366 I., dated 1st May 1894.
Raising the flood embankment of the Kistna river on right side from 44 to 55½ miles.	33,000	1,285	...	17,000	15,000	P.M.G. No. 248 I., dated 13th March 1895.
Raising the Cauvery both banks from road No. 4 to Kumbakónam bridge.	25,900	9,664	6,000	6,000	10,000	P.M.G. No. 500 I., dated 11th September 1890.
Total, Major Original Works ...	...	...	...	...	92,500	
Minor Original Works	...	...	...	...	13,900	
Repairs	...	...	...	...	3,74,389	
Establishment	...	...	...	...	1,08,407	
Tools and Plant	...	...	...	...	6,874	
Total, Agricultural Works ...	...	...	...	...	5,96,070	
Total, Provincial ...	...	...	...	...	38,95,000	
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept.	...	...	8,000	24,000	8,000	
Total ...	...	...	8,000	24,000	8,000	

CHARGES.

Part II.

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1896–97.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant, 1896-97.	Item No.	Remarks and references.
				KURNOOL-CUDDAPAH CANAL.						
				OPEN CAPITAL ACCOUNT.						
				2. Main Canals and Branches.						
					Rs.	Rs.	Rs.	Rs.		
Kurnool ...	...	14. Miscellaneous.	1	Demarcating land under the canal	13,360	...	5,000	6,000	1	P.M.G. No. 1098 I., dated 19th December 1895.
				3. Distributaries.						
		3. Works ...	2	Improving Rampalli channel culvert (MLS. 0, CHS. 1·27)	199	...	...	199	2	
		Do. ...	3	Road dam ... ... (0 74)	45	...	...	45	3	
		Do. ...	4	Drop No. 1 ... ... (1 15)	107	...	...	107	4	
		Do. ...	5	Road dam ... ... (1 38)	45	...	...	45	5	
		Do. ...	6	Drop No. 2 ... ... (2 10)	85	...	...	85	6	
		Do. ...	7	Road dam ... ... (2 41)	45	...	...	45	7	
		Do. ...	8	Drop No. 3 with side sluice ... (2 44)	170	...	...	170	8	
		Do. ...	9	Do. No. 4 ... ... (2 70)	93	...	...	93	9	
		Do. ...	10	Road dam ... ... (2 75)	45	...	...	45	10	
		Do. ...	11	Drop No. 1 with side sluice ... (2 65)	132	...	...	132	11	P.M.G. No. 766 I., dated 20th September 1895.
		Do. ...	12	Road dam ... ... (2 76)	45	...	...	45	12	
		Do. ...	13	Drop No. 2 ... ... (3 5)	75	...	...	75	13	
		Do. ...	14	Road dam ... ... (3 10)	45	...	...	45	14	
		Do. ...	15	Do. ... ... (3 52)	45	...	...	45	15	
		4. Earthwork ...	16	Deepening main channel	528	...	...	528	16	
		Do. ...	17	Do. branch channel No. 1	123	...	...	123	17	
		Do. ...	18	Do. do. No. 2	51	...	...	51	18	
		Do. ...	19	Banking main channel	108	...	...	108	19	
		Do. ...	20	Do. branch channel No. 1	236	...	...	236	20	
		Do. ...	21	Do. do. No. 2	78	...	...	78	21	
		Do. ...	22	Reserve for works	...	...	...	6,700	22	Estimates under preparation.
				Total, Kurnool-Cuddapah Canal ...	...	...	...	15,000		
				CAPITAL ACCOUNT.						
				Munnyeru Project.						
				1. Head Works.						
Kistna Northern.	...	3. Works ...	23	Anicut	31,300	19,486	17,975	6,000	23	P.M.G. No. 1089 I., dated 12th December 1893.
		Do. ...	24	Under-sluice	8,480	...	5,000	500	24	P.M.G. No. 1089 I., dated 12th December 1893.
		4. Buildings ...	25	Rest-house at Muchintala	1,650	...	...	300	25	P.M.G. No. 20 I., dated 9th January 1896.
				2. Main Canals and Branches.						
		3. Regulators ...	26	Head sluice	10,700	...	7,700	1,000	26	
		4. Falls and weirs.	27	Drop at 15 miles 2 furlongs	750	...	...	339	27	
		Do.	28	Do. at 22 do. 4 do.	620	...	...	281	28	
		5. River and hill torrent works.	29	Outlet at 4 do. 6/624 furlongs	1,260	...	250	1,010	29	
		Do.	30	Do. at 10 do. 4 do.	1,680	...	275	1,405	30	
		6. Other cross drainage works.	31	Under-tunnel at 2 miles 3½ furlongs	7,920	...	4,770	1,500	31	P.M.G. No. 1089 I., dated 12th December 1893.
		Do.	32	Do. at 2 do. 7 do.	2,380	...	1,435	945	32	
		Do.	33	Do. at 3 do. 3 do.	3,900	...	2,350	1,550	33	
		Do.	34	Do. at 6 do. 6 do.	7,860	...	4,735	3,125	34	
		Do.	35	Do. at 7 do. 6 do.	7,860	...	4,735	3,125	35	
		Do.	36	Do. at 9 do. 1 do.	2,540	...	1,530	1,010	36	
		Do.	37	Do. at 11 do. 2 do.	1,680	...	1,010	670	37	
		Do.	38	Do. at 12 do.	2,280	...	1,375	905	38	

Detail of the Budget Estimate for Original Works under Irrigation and Minor Works in the Madras Presidency for the year 1896-97—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant, 1896-97.	Item No.	Remarks and references.
				2. *Main Canal and Branches*—cont.	Rs.	Rs.	Rs.	Rs.		
Kistna Northern —*cont.*	...	6. Other cross drainage works.	39	Under-tunnel at 12 miles 7 furlongs	7,500	...	...	7,500	39	
		Do.	40	Do. at 14 do. 4 do.	2,300	...	...	2,300	40	
		Do.	41	Do. at 15 do. 3½ do.	2,240	...	...	1,014	41	
		Do.	42	Do. at 16 do. 2 do.	2,210	...	...	1,001	42	
		Do.	43	Do. at 16 do. 7 do.	5,760	...	...	2,609	43	
		Do.	44	Do. at 18 do. 6 do.	3,600	...	...	1,630	44	
		Do.	45	Do. at 19 do. 4 do.	2,210	...	...	1,001	45	
		Do.	46	Do. at 20 do. 3 do.	1,600	...	...	724	46	
		Do.	47	Do. at 21 do. 2 do.	3,500	...	...	1,585	47	
		Do.	48	Do. at 22 do. 0 do.	2,180	...	...	987	48	
		Do.	49	Do. at 23 do. 3 do.	2,260	...	...	1,024	49	
		Do.	50	Do. at 25 do. 2 do.	2,220	..	..	1,005	50	
		7. Bridges ...	51	Bridge at 1 mile	2,110	...	1,270	840	51	
		Do. ...	52	Do. at 2 miles 0/528 furlongs	1,500	...	905	595	52	
		Do. ...	53	Do. at 3 do. 6/264 do.	1,500	...	905	595	53	
		Do. ...	54	Do at 4 do. 3/198 do.	1,500	...	905	595	54	
		Do. ...	55	Do. at 5 do. 3/132 do.	1,500	...	905	595	55	
		Do. ...	56	Do. at 7 do. 2 furlongs	1,500	...	905	595	56	P.M.G. No. 1089 I., dated 12th December 1893.
		Do. ...	57	Do. at 9 do. 3/396 furlongs	1,910	...	1,145	765	57	
		Do. ...	58	Do. at 10 do. 4/264 do.	1,350	...	815	535	58	
		Do. ...	59	Do. at 11 do. 2 furlongs	1,350	...	815	535	59	
		Do. ...	60	Do. at 12 do. 5/330 furlongs	1,350	...	...	1,350	60	
		Do. ...	61	Do. at 14 do. 4 furlongs	1,350	...	...	1,350	61	
		Do. ...	62	Do. at 16 do. 2 do.	1,350	...	...	611	62	
		Do. ...	63	Do. at 17 do. 7 do.	1,350	...	...	611	63	
		Do. ...	64	Do. at 19 do. 7 do.	1,350	...	...	611	64	
		Do. ...	65	Do. at 23 do. 3 do.	1,230	...	...	557	65	
		Do. ...	66	Do. at 24 do. 0 do.	1,230	...	...	557	66	
		12. Earthwork ...	67	Excavating channel	1,13,400	...	35,790	35,122	67	
		15. Miscellaneous.	68	Demarcation stones	2,000	964	500	536	68	
				3. *Distributaries.*						
		3. Works ...	69	Sluices for branch channels	8,380	...	...	2,600	69	
		4. Earthwork ...	70	Excavating branch channels	11,000	...	...	4,000	70	
		5. Miscellaneous.	71	Demarcation stones for branch channels ...	1,000	...	...	400	71	
				Total, Munnyeru Project ...	...	...	...	1,00,000		
				Dondapad Tank Project.						
				2. *Main Canals and Branches.*						
		2. Land ...	72	Compensation for Dondapad tank bund	6,840	11	...	6,302	72	P.M.G. No. 191 I., dated 25th February 1892.
		3. Regulators ...	73	Surplus weir and head sluice to east side channel.	29,700	23,822	5,605	273	73	
		12. Earthwork ...	74	Tank bund	29,800	26,162	5,419	1,000	74	
				3. *Distributaries.*						
		3. Works ...	75	Constructing sluice No. II of Nadigedda tank...	1,500	1,428	26	46	75	P.M.G. No. 191 I., dated 25th February 1892; P.M.G. No. 376 I., dated 9th May 1894; P.M.G. No. 530 I., dated 16th July 1894, and P.M.G. No. 615 I., dated 29th August 1894.
		Do. ...	76	Excavating the east side channel	7,680	3,236	1,152	292	76	
		Do. ...	77	Nadigedda tank bund	21,680	15,171	5,213	1,296	77	
		Do. ...	78	Excavating the distributary to Nadigedda tank.	2,200	450	959	791	78	
				Total, Dondapad Tank Project ...	...	...	...	10,000		

Detail of the Budget Estimate for Original Works under Irrigation Minor Works in the Madras Presidency for the year 1896-97—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant, 1896-97.	Item No.	Remarks and references.
				SAGILERU PROJECT.	Rs.	Rs.	Rs.	Rs.		
				I. Works.						
				I. Head Works.						
Cuddapah ...	...	1. Preliminary expenses.	79	1. Preliminary expenses	* 6,000	1,916	1,000	1,000	79	
		3. Works ...	80	Constructing an anicut	50,400	11,509	18,700	16,000	80	
		Do. ...	81	Scouring sluice	14,800	2,436	6,000	5,000	81	
		4. Buildings ...	82	Inspection bungalow with out-houses at Pormamilla.	3,200	...	...	3,000	82	
				2. *Main Canals and Branches.*						
		2. Land	83	Land compensation	6,456	1,037	1,000	1,000	83	
		3. Regulator ...	84	Constructing head sluice	16,500	3,336	10,000	3,000	84	
		Do. ...	85	Regulator at 2 miles 1,340 feet	5,800	...	3,000	2,000	85	
		6. Other cross drainage works.	86	Sluice at 3¼ miles	995	117	100	500	86	
		Do.	87	Inlet at 1¼ miles	3,480	...	1,500	1,500	87	
		Do.	88	Pipe aqueduct, 1 mile 153 feet	1,390	...	1,000	500	88	
		Do.	89	Do. 1 „ 52 chains...	1,680	...	500	1,000	89	
		Do.	90	Inlet at 750 feet	980	...	500	500	90	
		Do.	91	Do. at 5 miles 76·53 chains	720	...	500	500	91	
		7. Bridges ...	92	Bridge No. 1 at 1 mile	3,560	951	500	1,500	92	
		Do. ...	93	Do. „ 2 at 1½ miles	5,800	1,542	1,500	2,000	93	
		Do. ...	94	Diversion of Cumbum road	4,890	1,413	2,000	1,500	94	
		Do. ...	95	Bridge on do.	3,720	977	1,500	1,000	95	
		Do. ...	96	Bridge at 5 miles 1,363 feet	2,540	...	1,500	1,000	96	
		8. Escapes ...	97	Escapes across Pulivagu	19,700	6,664	11,000	2,000	97	
		Do. ...	98	Do. at 6 miles 10·81 chains	1,260	...	200	1,000	98	
		Do. ...	99	Do. at 5 „ 76·53 „	1,540	...	200	1,000	99	
		Do. ...	100	Do. at 6 „ 23·80 „	940	...	100	500	100	
		12. Earthwork ...	101	Excavating channel	1,16,300	52,813	30,000	35,000	101	
		14. Tank and reservoir.	102	Raising and strengthening the bund of Chintalapalli tank.	...	3,793	11,000	6,000	102	
		Do.	103	Weir and right flank of Chintalapalli tank ...	770	122	100	500	103	
		Do.	104	Sluice No. 1 right flank of do. ...	1,180	...	100	1,000	104	
		Do.	105	Do. „ 2 do. of do. ...	1,180	...	500	500	105	
				Total ...	...	...	...	90,000		
				THADAPALLI CHANNEL SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				3. *Distributaries.*						
Coimbatore ...	Satyamangalam.	4. Earthwork ...	106	Cutting side channel	7,000	3,219	3,000	1,400	106	
		3. Works ...	107	22 foot-bridges	5,280	...	2,600	2,600	107	
		2. Land ...	108	Compensation for land	7,530	...	...	3,000	108	
				Total ...	...	...	...	7,000		

* The amounts entered in this column are those which will be included in the revised estimate for the project now under preparation.

Detail of Budget Estimate for Original Works under Irrigation

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay. To end of 1894-95.	Outlay. Probable during 1895-96.	Grant, 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				PALAR ANICUT SYSTEM.						
				KAVERIPAUK MAIN SURPLUS CHANNEL.						
				Kalapalampattu Branch Channel.						
North Arcot ...	...	4. Earthwork ...	109	Improvements to channel to Torayur tank ...	2,000	...	...	2,000	109	
				REDDIVALAM-NEDUMPALLI CONDAM DISTRIBUTARIES.						
				Reddivalam Branch Channel.						
		3. Works ...	110	Proposed under tunnel at 4,710 feet, below Tennal tank.	700	...	...	700	110	
		4. Earthwork ...	111	Deepening and widening Reddivalam channel from Reddivalam tank to Nelvoy tank.	2,300	645	...	1,655	111	
				3. *Distributaries.*						
				Karivedu-Kolathur and Damal, &c., Project.						
				Kolathur Branch.						
		4. Earthwork ...	112	Cutting Karivedu-Kolathur proposed extension from a point 700 feet below the existing head sluice in Govindavady channel.	1,430	...	...	1,430	112	
		3. Works ...	113	Proposed improvements to the existing head sluice of Karivedu-Kolathur channel above drop No. 7 in the Govindavady channel.	170	...	...	170	113	
		Do. ...	114	Proposed drop at 5,000 feet below head in Karivedu and Kolathur channel.	280	...	...	280	114	
		Do. ...	115	Proposed regulators in Kolathur and Damal branch channels below Karivedu tank weir.	570	...	...	570	115	
		Do. ...	116	Constructing the proposed regulating weir at the crossing of the Avalur supply with the Damal channel at 1 mile 7 furlongs below Karivedu tank weir.	280	...	...	280	116	
				Damal Branch.						
		4. Earthwork ...	117	Improving and strengthening the Avalur channel to supply Damal, &c., tanks.	1,250	...	...	1,250	117	
		3. Works ...	118	Improvements to the Avalur channel head sluice.	650	...	...	650	118	
			119	Unforeseen works	...	...	...	1,015	119	
				Total, Pálár Anicut System ...	...	...	...	10,000		
				Cheyáru Anicut System.						
		2. Land ...	120	Compensation for land taken up for Cheyáru main channel.	1,660	304	...	1,360	120	
			121	Unforeseen works	...	...	...	1,640	121	
				Total, Cheyáru Anicut System ...	...	...	...	3,000		

CHARGES—cont.

Part II—cont.

Detail of the Budget Estimate for Original Works under Irrigation — *Minor Works in the Madras Presidency for the year* 1896-97—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894-95.	Outlay: Probable during 1895-96.	Grant, 1896-97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				LOWER COLEROON ANICUT SYSTEM.						
				I. Head Works.						
Tanjore	...	3. Works ...	122	Fitting a second pair of experimental shutters to the Lower Coleroon anicut.	4,200	...	...	4,200	122	Estimate under preparation.
				3. *Distributaries.*						
				South Rajen Voikal.						
		4. Earthwork ...	123	Improvements to Oosi voikal	2,534	...	1,862	700	123	P.M.G. No. 372 I., dated 5th May 1894.
				2. *Main Canals and Branches.*						
				Khan Sahib's Canal.						
South Arcot ...	...	3. Regulators ...	124	Regulator across the canal	10,540	3,174	6,540	826	124	P.M.G. No. 1053 I., dated 22nd December 1894.
		12. Earthwork ...	125	Widening the canal	9,600	...	4,600	5,000	125	" " 835 I. " 8th October 1892.
				4. *Drainages and Protective Works.*						
				Old Coleroon Drain.						
		3. Works ...	126	Aqueduct and bridge extension	25,240	...	6,612	18,628	126	P.M.G. No. 835 I., dated 8th October 1892.
		4. Earthwork ...	127	Old Coleroon drain clearing, widening and forming banks.	89,600	240	...	34,646	127	" " " " " "
				Total, Lower Coleroon Anicut System ...	...	...	...	64,000		
				MARADUR ANICUT SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				2. *Main Canals and Branches.*						
Tinnevelly ...	...	14. Tanks and reservoirs.	128	Improving Butterkulam	2,920	...	2,012	900	128	P.M.G. No. 1006 I., dated 14th December 1894.
		3. Regulators ...	129	Do. Maradur Melakal	...	...	...	4,100	129	Estimate under preparation.
				Total, Maradur Anicut System ...	...	...	...	5,000		
				BUCKINGHAM CANAL.						
				2. *Main Canals and Branches.*						
Buckingham Canal.	...	9. Navigation ...	130	Constructing a tidal lock at the Pálár south flood gate.	12,800	...	6,000	6,000	130	P.M.G. No. 659 I., dated 16th August 1895.
			131	Constructing a tidal lock at the Mannyeru north flood gate.	15,500	...	6,000	9,500	131	" " 563 I. " 15th July 1895.
			132	Converting Swarnamukhi north flood gate into lock.	14,520	...	5,000	9,240	132	" " 17 I. " 6th January 1896.

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1896–97—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant, 1896–97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				BUCKINGHAM CANAL—*cont.*						
Buckingham Canal —*cont.*	...			2. *Main Canals and Branches*—cont.						
		9. Navigation ...	133	Constructing a tidal lock at Pambli	12,500	...	10,880	1,620	133	P.M.G. No. 489 I., dated 15th June 1895.
		.....	134	Do. a tidal lock at Pálár south bank ...	12,710	...	4,000	8,710	134	,, ,, 17 I. ,, 16th January 1896.
		.....	135	Do. a flood gate across Vayalur salt channel.	12,600	...	5,000	7,600	135	,, ,, 1099 I. ,, 19th December 1895.
		.....	136	Making the Ottary nulla navigable	10,120	...	...	10,120	136	Estimate submitted to Government.
		6. Other cross drainage works.	137	Improvements to canal from Pálár to Merkanam.	590	...	...	590	137	P.M.G. No. 199 I., dated 22nd February 1896.
		.....	138	Pipe inlet at 49/1 miles	150	...	...	150	138	
		.....	139	Inlet at ramp 46/3 miles	290	...	...	290	139	
		12. Earthwork ...	140	Inlet at 51/3 miles	15,100	...	...	15,000	140	
		.....	141	Earthwork clearance	4,870	...	...	4,870	141	
		.....	142	Improvements to banks and berms	100	...	...	100	142	
		.....	143	Cutting basin	12,700	...	...	12,500	143	,, ,, 956 I., ,, 12th November 1895.
		9. Navigation ...	144	Improvements to canal from 65/3 to 75/2 miles.	20,000	...	...	12,710	144	Estimates submitted to Government.
		.....	145	Constructing a lock at Mannyeru south flood gate at 158/111 miles.	12,000	...	...	12,000	145	
		.....	146	Constructing a lock at Chippaleru north flood gate.	...	...	...	7,000	146	
				Incomplete works	...	...	...	1,18,000		
				Total, Buckingham Canal ...						
				Canal from the Madras Harbour to the Buckingham Canal.						
		3. Works	147	Combined bridge and regulator at the mouth of river Cooum.	1,73,700	...	...	80,000	147	
		.....	148	Improvements to road culvert under Marina for drainage channel at 3rd mile of junction canal.	1,700	...	...	1,700	148	
		.....	149	Excavating a drainage channel from 3rd mile of junction canal.	2,825	...	...	2,800	149	
		.....	150	Diversion of road from Ennore road to Tiruvattore road.	2,300	...	...	2,300	150	
		.....	151	Road from Monegar Choultry road to eastern end of cemetery.	1,510	...	...	1,510	151	
		.....	152	Bridge under Tiruvattore road at 0 mile 52·57 chains of Harbour canal.	46,960	...	...	46,960	152	
		.....	153	Bridge under Basin road at 0 mile 5 chains of Harbour canal.	47,740	...	...	47,740	153	P.M.G. No. $\frac{1084}{A}$ I., dated 14th December 1895.
		.....	154	Tunnel under over bridge approach for Messrs. Best and Company.	1,290	...	...	1,290	154	
		.....	155	Lock at Basin in Buckingham canal	29,110	...	...	29,110	155	
		.....	156	Excavating Harbour canal	1,53,070	...	...	80,000	156	
		.....	157	Skew bridge under Monegar Choultry road at 1 mile 11·50 chains of Harbour canal.	49,800	...	...	15,000	157	
		.....	158	Skew bridge under beach road at 1 mile 57·50 chains of Harbour canal.	47,990	...	...	15,000	158	
		.....	159	Royapuram lock at 1 mile 35 chains of Harbour canal.	75,736	...	...	20,248	159	
		.....	160	Retaining wall and wharf steps	1,30,600	...	...	20,000	160	
		.....	161	Compensation for land and buildings	1,37,200	...	...	1,37,200	161	
				Total, Canal from the Madras Harbour to the Buckingham Canal	...	...	...	5,00,858		
				Total, Capital ...	...	...	...	9,22,858		

Detail of the Budget Estimate for Original Works under Irrigation

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.
				REVENUE ACCOUNT.
				Extensions and Improvements.
Kurnool ...	...	.....	162	Cumbum tank system ... ...
Coimbatore ...	...	.....	163	Thadapalli channel system ... ...
			164	Arkenkota channel system ... ...
North Arcot ...	...	.....	165	Pálár anicut system ... ...
				Deduct Old Maintenance Charges ...
				Net ...
Chingleput ...	...	.....	166	Pálár anicut system ... ...
				Total, Pálár Anicut System ...
North Arcot ...	...	.....	167	Poiney anicut system ... ...
			168	Cheyáru anicut system ... ...
Chingleput ...	...	.....	169	Chembrambakam tank ... ...
				Deduct Old Maintenance Charges ...
				Net ...
			170	Madras Water-supply and Irrigation extension...
				Deduct Old Maintenance Charges ...
				Net ...
			171	Valluru anicut system ... ...
South Arcot ...	...	.....	172	Tirukkóyilúr anicut system ... ...
			173	Mehamattur anicut system ... ...
			174	Vriddhachalam anicut system ... ...
			175	Shatiatope anicut system ... ...
			176	Pelandorai anicut system ... ...
				Deduct Old Maintenance Charges ...
				Net ...
			177	Lower Coleroon anicut system ... ...
Tanjore ...	...	.....	178	Do. do. ... ...
				Total, Lower Coleroon Anicut System ...

* These sums are provided under Minor Works for which

Minor Works in the Madras Presidency for the year 1896–97—continued.

Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant, 1896–97.	Item No.	Remarks and references.
Rs.	Rs.	Rs.	Rs.		
...	...	6	500	162	
...	...	300	500	163	
...	...	363	500	164	
...	...	9,038	5,014	165	
...	...	* 178	* 178		
...	...	8,860	4,836		
...	...	659	200	166	
...	...	9,519	5,036		
...	...	3,297	2,000	167	
...	...	4,563	3,000	168	
...	...	1,000	808	169	
...	...	* 2,283	* 2,283		
...	...	— 1,283	— 1,475		
...	...	889	...	170	
...	...	* 3,600	* 3,600		
...	...	— 2,711	— 3,600		
...	...	138	232	171	
...	...	3,500	2,000	172	
...	...	987	502	173	
...	...	150	504	174	
...	...	1,363	1,894	175	
...	...	...	505	176	
...	...	* 59	* 59		
...	...	— 59	446		
...	...	788	2,000	177	
...	...	1,700	2,000	178	
...	...	2,488	4,000		

neither Capital nor Revenue Accounts are kept, P.W.D.

CHARGES—cont.

Part II—cont.

Detail of the Budget Estimate for Original Works under Irrigation *Minor Works in the Madras Presidency for the year* 1896–97—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant, 1896–97.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.		
				REVENUE ACCOUNT—*cont.*						
				Extensions and Improvements—cont.						
Trichinopoly ...	...	.....	179	Nandyar channel	...	...	1,450	3,500	179	
Tinnevelly ...	...	.....	180	Maradur anicut system	...	...	215	1,000	180	
Buckinghan Canal.	...	.....	181	Buckingham canal	...	...	750	2,120	181	
				Total, Extensions and Improvements ...	...	...	...	22,659		
				Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
				Ordinary Major Original Works.						
Gódávari Western.	...	.....	182	Diversion of Yerracalva and construction of masonry dams across it and Gundapalli channel.	8,210	195	3,000	5,000	182	P.M.G. No. 13 I., dated 10th January 1895.
Kistna Northern.	...	.....	183	Macherla tank	26,900	...	10,000	12,000	183	,, ,, 964 I. ,, 6th November 1893.
			184	Ipur do.	31,000	...	...	8,000	184	,, ,, 1031 I. ,, 23rd November 1893.
			185	Jonapad do.	26,630	...	...	5,000	185	,, ,, 148 I. ,, 16th February 1895.
Kistna Eastern ...	...	.....	186	Excavating a navigable canal to the Pandraka Salt Factory.	...	...	...	5,000	186	,, ,, 320 I. ,, 2nd April 1896.
Nellore ...	...	.....	187	Mannangidinni tank improvements	4,740	...	3,000	1,700	187	,, ,, 607 I. ,, 4th August 1891.
			188	Mopad do.	23,800	...	16,000	14,000	188	,, ,, 57 I. ,, 18th January 1896.
			189	Maripad do.	5,590	...	...	5,500	189	,, ,, 638 I. ,, 10th August 1895.
			190	Gundavole do.	5,480	...	...	5,000	190	,, ,, 481 I. ,, 11th June 1895.
Bellary	...	.....	191	Rampur channel improvements	21,488	29	10,000	12,000	191	,, ,, 505 I. ,, 21st ,, 1894, P.M.G. No. 1127 I., dated 22nd December 1893 and P.M.G., No. 601 I., dated 31st July 1895.
			192	Dasanur do. do.	18,200	1,152	10,000	7,000	192	P.M.G. No. 665 I., dated 12th September 1894.
			193	Maravapalli agraharam tank	5,900	...	1,000	4,900	193	,, ,, 676 I. ,, 22nd August 1895.
			194	Royalcheruvu old tank	10,300	...	1,500	4,000	194	,, ,, 224 I. ,, 4th March 1896.
Kurnool ...	...	.....	195	Pedda and Chinna Mallalammah tank of Ramapuram.	4,000	...	2,000	1,000	195	,, ,, 5 I. ,, 3rd January 1896.
			196	Macha Veerappah tank of Indresweram ...	6,480	...	1,700	2,600	196	,, ,, 175 I. ,, 21st February 1895.
Chingleput ...	...	.....	197	Tirumeshi tank head-sluice and new supply channel.	3,520	...	...	3,500	197	,, ,, 706 I. ,, 30th August 1895.
			198	Kumaravadi tank improvements	4,740	...	...	2,800	198	,, ,, 1064 I. ,, 11th December 1895.
South Arcot ...	...	.....	199	Cutting a channel from Ponniar river to irrigate lands in Tirukondesweram and other villages.	14,730	...	7,000	2,000	199	,, ,, 232 I. ,, 9th March 1895.
Tinnevelly ...	...	.....	200	Puliyur-Periyakulam	5,160	...	2,000	3,000	200	,, ,, 660 I. ,, 13th September 1894.
			201	Sivalaperi channel	6,700	...	3,000	3,000	201	,, ,, 311 I. ,, 2nd April 1895.
			202	Vadukachimathel tank and channel	3,820	...	1,000	2,000	202	,, ,, 615 I. ,, 3rd August 1895.
				Total ...	...	...	...	1,09,000		
			203	Minor Original Works	...	...	...	1,79,380	203	
			204	Old maintenance charges for works for which Capital and Revenue Accounts are kept.	...	...	...	10,381	204	
				Total, Ordinary Works ...	...	...	...	2,98,761		

CHARGES—cont.

Part II—cont.

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1896–97—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1894–95.	Outlay: Probable during 1895–96.	Grant, 1896–97.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.—cont.						
				Minor Original Works—*cont.*						
Tinnevelly—*cont.*	...	.....	205	Minor Works, Revenue Department, Minor Original works.	...	...	...	24,096	205	
				Agricultural Works.						
				Major Original Works.						
Vizagapatam ...	...	.....	206	Constructing left flood bank of the Nagavalli river between Annaveram and Ampli villages.	5,730	...	2,030	3,000	206	P.M.G. No. 681 I., dated 10th August 1892.
Gódávari Central.	...	.....	207	Raising the Vasista left bank from head to junction of Gunnaram canal.	33,500	10,992	6,000	10,000	207	,, ,, 101 I. ,, 4th February 1893.
			208	Diverting Vinatyam right bank along Pasarlapudi channel left bank.	16,000	2,417	5,000	11,000	208	,, ,, 1043 I. ,, 10th December 1893.
Gódávari Western.	...	.....	209	Raising the Vasista right bank from head to Chinchinada.	72,800	1,785	15,000	30,000	209	,, ,, 56 I. ,, 19th January 1893.
			210	Raising the Vasista Gódávari right bank from Chinchinada ferry to Narsapur.	8,300	1,924	4,000	3,000	210	,, ,, 431 I. ,, 16th May 1893.
Kistna Eastern ...	...	.....	211	Raising the Kistna left bank	78,300	14,527	10,000	10,000	211	,, ,, 278 I. ,, 28th March 1893.
			212	Rest-house at Avanigedda	3,120	...	3,000	500	212	,, ,, 366 I. ,, 1st May 1894.
Kistna Western.	...	.....	213	Raising the flood embankment of the Kistna river on right side from 44 to 55½ miles.	33,000	1,285	17,000	15,000	213	,, ,, 248 I. ,, 13th March 1895.
Tanjore ...	...	.....	214	Raising the Cauvery both banks from road No. 4 to Kumbakónam bridge.	25,900	9,664	6,000	10,000	214	,, ,, 500 I. ,, 11th September 1890.
				Total ...	...	...	...	92,500		
			215	Minor original works	...	...	...	13,900	215	
				Total, Agricultural Works ...	...	...	...	1,06,400		
				LOCAL IRRIGATION CESS FUND.						
				43. Minor Works and Navigation.						
				Minor Works for which neither Capital nor Revenue Accounts are kept.						
Salem ...	...	.....	216	Minor original works	...	...	...	3,000	216	

GOVERNMENT OF MADRAS.

CHARGES.

Part II—continued.

General Abstract of the Grant provided for above.

—	Local Irrigation Cess Fund.	Provincial Funds.	Total.
	Rs.	Rs.	Rs.
IRRIGATION.			
43. MINOR WORKS AND NAVIGATION.			
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.			
PROVINCIAL.			
CAPITAL.			
Kurnool-Cuddapah Canal	...	15,000	15,000
Munnyeru Project	...	1,00,000	1,00,000
Dondapad Tank System	...	10,000	10,000
Sagiléru Project	...	90,000	90,000
Thadapalli Channel System	...	7,000	7,000
Pálár Anicut System	...	10,000	10,000
Cheyáru do.	...	3,000	3,000
Lower Coleroon Anicut System	...	64,000	64,000
Maradur Anicut System	...	5,000	5,000
Buckingham Canal	...	1,18,000	1,18,000
Canal from the Madras Harbour to the Buckingham Canal	...	5,90,858	5,00,858
Total ...	...	9,22,858	9,22,858
REVENUE.			
Cumbum Tank System	...	500	500
Thadapalli Channel System	...	500	500
Arkenkotta do.	...	500	500
Pálár Anicut System	...	5,036	5,036
Poiney do.	...	2,000	2,000
Cheyáru do.	...	3,000	3,000
Chembrambakam Tank	...	— 1,475	— 1,475
Madras Water-supply and Irrigation Extension	...	— 3,600	— 3,600
Valluru Anicut	...	232	232
Tirukkóyilúr Anicut System	...	2,000	2,000
Mehamattur do.	...	502	502
Vriddháchalam do.	...	504	504
Shatiatope do.	...	1,894	1,894
Pelandorai do.	...	446	446
Lower Coleroon do.	...	4,000	4,000
Nundiyar Channel	...	3,500	3,500
Marudur Anicut System	...	1,000	1,000
Buckingham Canal	...	2,120	2,120
Total ...	...	22,659	22,659
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept, P.W.D.—			
Major	...	1,09,000	1,09,000
Minor	...	1,79,380	1,79,380
Old Maintenance charges for works for which Capital and Revenue Accounts are kept	...	10,381	10,381
"Minor Works, Revenue Department," Minor Original Works ...	...	24,096	24,096
Total ...	...	3,22,857	3,22,857

GOVERNMENT OF MADRAS.

CHARGES.

Part II—continued.

General Abstract of the Grant provided for above—continued.

—	Local Irrigation Cess Fund.	Provincial Funds.	Total.
	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION—cont.			
PROVINCIAL—continued.			
Agricultural Works.			
Works for which neither Capital nor Revenue Accounts are kept.			
Major works	...	92,500	92,500
Minor works	...	13,900	13,900
Total ...	...	1,06,400	1,06,400
LOCAL IRRIGATION CESS FUND.			
43. MINOR WORKS AND NAVIGATION.			
Minor works for which neither Capital nor Revenue Accounts are kept, P.W.D.—			
Minor works	3,000	...	3,000
Total ...	3,000	...	3,000

GOVERNMENT OF MADRAS.

CHARGES.

Part III.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Minor Works in the Madras Presidency for the year 1896–97.

Executive division.	—	Estimate, 1896–97.		Estimate, 1895–96.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION.	Rs.	Rs.	Rs.	Rs.
	43. MINOR WORKS AND NAVIGATION.				
	Minor Works for which Capital and Revenue Accounts are kept.				
	Provincial.				
	Maintenance and Repairs.				
Ganjám ...	Ganjám Minor Rivers System	3,000		...	
Kurnool ...	Cumbum Tank System	1,500	3,000	1,500	...
Coimbatore ...	Thadapalli Channel System	2,989	1,500	1,934	1,500
Do. ...	Arkenkotta Channel System	996	2,989	1,000	1,934
Do. ...	Kalingaroyen Channel System	1,998	996	...	1,000
North Arcot ...	Pálár Anicut System—		1,998		...
	Head works			...	
	Kávéripak channel			14,000	
	Govindavádi channel			...	
	Mahendravadi channel			2,000	
	Dusi channel	24,800		...	
	Tennampettu channel			7,000	
	Chuckramallur channel			2,000	
	Reserve for incomplete works			...	
Chingleput ...	Kambakal channel	8,400		2,500	
	Total ...	33,200		27,500	
	Deduct Old Maintenance Charges ...	2,909		* 2,909	
North Arcot ...	Poiney Anicut System	8,000	30,291	8,000	24,591
Do. ...	Cheyáru Anicut System	10,000	8,000	10,000	8,000
Chingleput ...	Chembrambakam Tank System	3,000	10,000	3,029	10,000
	Deduct Old Maintenance Charges ...	3,097		* 3,097	
Do. ...	Madras Water-supply and Irrigation Extension...	2,501	— 97	3,000	— 68
	Deduct Old Maintenance Charges ...	200		200	
Do. ...	Vallur Anicut System	500	2,301	488	2,800
South Arcot ...	Shatiatope Anicut System	10,000	500	12,000	488
Do. ...	Pelandorai Anicut System	3,000	10,000	3,672	12,000
	Deduct Old Maintenance Charges ...	58		* 58	
			2,942		3,614

* These sums are provided under Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.

GOVERNMENT OF MADRAS.

CHARGES.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Minor Works in the Madras Presidency for the year 1896–97—continued.

Executive division.	—	Estimate, 1896–97.		Estimate, 1895–96.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION—*continued.*	Rs.	Rs.	Rs.	Rs.
	43. MINOR WORKS AND NAVIGATION—continued.				
	Minor Works for which Capital and Revenue Accounts are kept—continued.				
	Provincial—cont.				
	Maintenance and Repairs—continued.				
South Arcot ...	Vriddháchalam Anicut System	2,500		2,000	
Do. ...	Mehamattur Anicut System	1,000	2,500	1,032	2,000
Do. ...	Tirukkóyilúr Anicut System	7,994	1,000	10,772	1,032
Do. ...	Lower Coleroon Anicut System	16,000	7,994	16,000	10,772
Tanjore ...	Do. do.	3,000		3,000	
Trichinopoly ...	Nandiar channel	606	19,000	...	19,000
Tinnevelly ...	Maradur Anicut System	8,004	606	10,000	...
Ganjám ...	Chilka Lake Canal	301	8,004	301	10,000
Negapatam ...	Védáranniyam Canal	3,504	301	3,049	301
Buckingham Canal.	Buckingham Canal—		3,504		3,049
	262 miles	35,370		39,300	
	M. Maintenance establishment	6,000		6,000	
	Repairs to masonry works	8,000		8,000	
	Unforeseen and sundry items	3,910		5,100	
	Payment to the Madras Municipality being the amount of lease for Trevelyan wharf ...	1,600		1,600	
			54,880		60,000
	Total ...	...	1,72,209	...	1,72,013
	Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D., Ordinary works	3,47,000		3,92,000	
	Old Maintenance charges	1,42,850		1,42,850	
	Tank Restoration works to be executed by ordinary divisions	5,44,201		4,44,096	
	Agricultural Works—		10,34,051		9,78,946
	Repairs	3,74,389		2,43,692	
			3,74,389		2,43,692
	Total ...	...	15,80,649	...	13,94,651
	LOCAL IRRIGATION CESS FUND.				
	43. MINOR WORKS AND NAVIGATION.				
	Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.				
Salem ...	Cauvery channels in Salem district	2,000	2,000	2,000	2,000
Trichinopoly ...	Maradur channel	3,000	3,000	...	...
	Total ...	...	5,000	...	2,000

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1896–97.

Particulars.	Budget Estimate for 1896–97. Per mensem.	Per annum.	Total.	Revised Estimate for 1895–96.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
43. Minor Works and Navigation.				
PROVINCIAL.				
Grant for works and repairs	...	...	29,55,423	23,68,707
Deduct items on which no charge for establishment is admissible—				
Grant for land compensation	...	...	1,75,862	66,395
Net Grant for Works and Repairs ...	...	...	27,79,561	23,02,312
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	...	...	6,39,299	5,29,531
Estimate of Direct Revenue	...	...	1,70,000	1,70,000
B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	...	...	17,000	17,000
Revenue due to old Irrigation under Major Productive Works.	...	...	38,49,000	37,93,000
C. Share of the Public Works establishment at 6 per cent. on Revenue.	...	...	2,30,940	2,27,580
Total, A + B + C ...	...	...	8,87,239	7,74,111
Special establishment for investigating requirements of tanks systematically	...	...	...	25,212
Total, Establishment Charges ...	...	...	8,87,239	7,99,323

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A.

Detail of estimated charges for establishment by systems of canals for 1896–97.

—	Percentage on the Grant for Works and Repairs. Grant for Works and Repairs.	23 per cent.	Percentage on the Direct Revenue. Direct Revenue.	10 per cent.	Percentage on the Indirect Revenue. Indirect Revenue.	6 per cent.	Cost of Establishment actually employed.	Total Charges for Establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IRRIGATION.								
43. MINOR WORKS AND NAVIGATION.								
Provincial.								
Minor Works for which Capital and Revenue Accounts are kept.								
Capital.								
Kurnool-Cuddapah Canal	15,000	3,450	...	...	...	...	...	3,450
Munnyeru Project	1,00,000	23,000	...	...	...	...	...	23,000
Dondapad Tank Project	3,698	850	...	...	...	...	...	850
Sagiléru Project	89,000	20,470	...	...	...	...	...	20,470
Thadapalli Channel System	4,000	920	...	...	...	...	...	920
Pálár Anicut System	10,000	2,300	...	...	...	...	...	2,300
Cheyáru do.	1,640	377	...	...	...	...	...	377
Lower Coleroon Anicut System ...	64,000	14,720	...	...	...	...	...	14,720
Maradur Anicut System ...	5,000	1,150	...	...	...	...	...	1,150
Buckingham Canal	1,18,000	27,140	...	...	...	...	...	27,140
Canal from the north side of the Madras Harbour to the basin in the Buckingham Canal	3,63,658	83,642	...	...	...	...	...	83,642
Total ...	7,73,996	1,78,019	...	...	...	...	...	1,78,019
Revenue.								
Ganjám Minor Rivers System ...	3,000	690	...	...	...	...	...	690
Cumbum Tank System	2,000	460	...	...	...	...	...	460
Thadapalli Channel System	3,489	803	80	8	...	...	...	811
Arkenkotta do.	1,496	344	...	...	...	...	...	344
Kalingaroyen do.	1,998	460	420	42	...	...	...	502
Pálár Anicut System	35,327	8,125	1,540	154	...	...	...	8,279
Poiney do.	10,000	2,300	600	60	...	...	...	2,360
Cheyáru do.	13,000	2,990	200	20	...	...	...	3,010
Chembrambakam Tank System ...	— 1,572	— 362	30	3	...	...	...	— 359
Madras Water-supply and Irrigation Extension	— 1,299	— 299	13,380	1,338	...	...	...	1,039
Vallur Anicut System	732	168	...	...	...	...	...	168
Tirukkóyilúr do.	9,994	2,299	570	57	...	...	...	2,356
Mehamattur do.	1,502	345	30	3	...	...	...	348
Vriddháchalam do.	3,004	691	50	5	...	...	...	696
Shatiatope do.	11,894	2,736	300	30	...	...	...	2,766
Pelandorai do.	3,388	779	250	25	...	...	...	804
Lower Coleroon do.	23,000	5,290	1,000	100	...	...	...	5,390
Nundiar Channel Extension ...	4,106	944	...	...	...	...	...	944
Maradur do.	9,004	2,071	350	35	...	...	...	2,106
Chilka Lake Canal	301	69	...	...	...	...	...	69
Buckingham Canal	57,000	13,110	1,10,000	11,000	...	...	...	24,110
Védáranniyam Canal	3,504	806	1,200	120	...	...	...	926
Total ...	1,94,868	44,819	1,30,000	13,000	...	...	...	57,819

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A—continued.

Detail of estimated charges for establishment by systems of canals for 1896–97—continued.

—	Percentage on the Grant for Works and Repairs.		Percentage on the Direct Revenue.		Percentage on the Indirect Revenue.		Cost of Establishment actually employed.	Total Charges for Establishment.
	Grant for Works and Repairs.	23 per cent.	Direct Revenue.	10 per cent.	Indirect Revenue.	6 per cent.		
IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION—continued.								
Provincial—continued.								
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.								
Ordinary Works	6,30,880	1,45,103	10,000	1,000	...	...	...	1,46,103
Tank Restoration Works	5,44,201	1,25,166	...	...	...	...	...	1,25,166
Old Maintenance charges	1,53,231	35,243	...	...	38,49,000	2,30,940	...	2,66,183
Minor Works, Revenue Department...	24,096	5,542	...	...	...	...	...	5,542
Total ...	13,52,408	3,11,054	10,000	1,000	38,49,000	2,30,940	...	5,42,994
Agricultural Works.								
Works for which neither Capital nor Revenue Accounts are kept ...	4,58,289	1,05,407	30,000	3,000	...	...	...	1,08,407
Total, Provincial ...	27,79,561	6,39,299	1,70,000	17,000	38,49,000	2,30,940	...	8,87,239

GOVERNMENT OF MADRAS.

CHARGES.

Part V.

Detail of the Budget Estimate for Tools and Plant under Irrigation Minor Works in the Madras Presidency for the year 1896–97.

—	Special Tools and Plant.	General Tools and Plant.	Total.	Grant for Works and Repairs.
IRRIGATION.	Rs.	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION.				
Provincial.				
Minor Works for which Capital and Revenue Accounts are kept.				
Capital.				
Thadapalli channel system	690	...	690	...
Sagiléru project	230	...	230	...
Buckingham Canal	5,000	...	5,000	...
Canal from the Madras Harbour to the Buckingham Canal.	15,500	...	15,500	...
Cheyárn anicut system	313	...	313	...
Total ...	21,733	...	21,733	...
Revenue.				
Pálár Anicut System	...	...	...	...
Deduct Old Maintenance charges ...	4	...	4	...
Net ...	— 4	...	— 4	...
Chembrambakam Tank System	...	...	...	...
Deduct Old Maintenance charges ...	109	...	109	...
Net ...	— 109	...	— 109	...
Madras Water-supply and Irrigation Extension	...	...	...	...
Deduct Old Maintenance charges ...	10	...	10	...
Net ...	— 10	...	— 10	...
Pelandorai Anicut System	...	...	...	...
Deduct Old Maintenance charges ...	2	...	2	...
Net ...	— 2	...	— 2	...
Buckingham Canal	4,000	...	4,000	...
Total ...	3,875	...	3,875	...
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.				
Ordinary Works	...	9,463	9,463	6,30,880
Tank Restoration Scheme	...	8,163	8,163	5,44,201
Old Maintenance charges	1,868	...	1,868	1,53,231
Minor Works, Revenue Department	...	362	362	24,096
Agricultural Works.				
Works for which neither Capital nor Revenue Accounts are kept	...	6,874	6,874	4,58,289
Total ...	1,868	24,862	26,730	18,10,697
Total, Provincial ..	27,476	24,862	52,338	...

GOVERNMENT OF MADRAS.

CHARGES.

Part VI.

Abstract of the Probable Increase or Decrease in the Suspense Accounts of Irrigation Minor Works in the Madras Presidency for the year 1896-97—Nil.

All Suspense Accounts are included under Provincial, 45. Civil Works.

GOVERNMENT OF MADRAS.

CHARGES.

Schedule A—Showing the distribution of the grants for Minor Original Works and Repairs for 1896-97.

	Irrigation Revenue.	Minor Original Works (under Rs. 2,500 each).	Repairs.
		1896-97.	1896-97.
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.	Rs.	Rs.	Rs.
Old Maintenance charges—			
Pennéru Anicut System	...	3,564	13,860
Sangam do. do.	...	345	11,884
Cauvery Delta do.	...	...	1,05,634
Srivaikuntam Anicut System	...	352	5,208
Chembrambakam Tank	...	2,283	3,097
Pálár Anicut System	...	178	2,909
Pelandorai Anicut System	...	59	58
Madras Water-supply and Irrigation Extension Project ...	...	3,600	200
Total ...	...	10,381	1,42,850
Minor Works, Public Works Department, Ordinary—			
Divisions—			
Ganjám	74,218	7,000	17,000
Vizagapatam	61,053	16,000	17,000
Gódávari Eastern	47,321	3,000	15,000
Do. Western		2,000	4,000
Kistna Eastern	18,400	...	6,000
Do. Northern		1,000	8,000
Nellore	92,634	10,000	25,000
Bellary	80,730	5,000	30,000
Cuddapah	84,455	5,000	25,000
Kurnool	29,229	3,000	10,000
West Coast	...	...	2,000
Coimbatore	44,038	6,000	12,000
Salem	58,146	4,000	12,000
North Arcot	76,557	10,000	25,000
Chingleput	2,60,717	10,000	35,000
South Arcot	93,874	10,000	35,000
Tanjore	18,975	1,000	2,000
Trichinopoly	1,22,946	15,000	25,000
Madura	99,422	9,000	12,000
Tinnevelly	65,338	10,000	30,000
Total ...	...	1,27,000	3,47,000
Reserve ...	...	52,380	...
Total ...	...	1,79,380	3,47,000
Minor Works, Revenue Department, Original Works—Reserve ...	...	24,096	...

GOVERNMENT OF MADRAS.

CHARGES.

Schedule A—Showing the distribution of the grants for Minor Original Works and Repairs for 1896–97—continued.

	Irrigation Revenue.	Minor Original Works (under Rs. 2,500 each).	Repairs.
		1896–97.	1896–97.
	Rs.	Rs.	Rs.
Tank Restoration Works.			
Execution—			
Divisions—			
Vizagapatam	...	...	
Gódávari Eastern	...	...	45,000
Do. Western	...	...	6,000
Kistna Northern	...	...	4,000
Salem	...	...	24,000
Chingleput	...	...	50,000
North Arcot	...	...	75,201
South Arcot	...	...	50,000
Negapatam	...	...	50,000
Madura	...	...	75,000
Tinnevelly	...	...	1,00,000
Total ...	...	...	65,000
	...	...	5,44,201
Agricultural Works.			
Divisions—			
Rushikulya	...	1,000	1,000
Ganjám	...	2,000	3,000
Vizagapatam	...	500	3,800
Gódávari Eastern	...	...	30,000
Do. Central	...	1,000	65,000
Do. Western	...	...	16,000
Kistna Eastern	...	...	9,000
Do. Northern	...	...	1,300
Do. Western	...	...	1,00,000
Nellore	...	1,000	7,000
Cuddapah	...	...	4,000
Coimbatore	...	3,500	6,500
Salem	...	...	589
North Arcot	...	...	1,000
Chingleput	...	500	4,000
South Arcot	...	400	8,700
Tanjore	...	2,000	60,000
Negapatam	...	...	20,000
Trichinopoly	...	2,000	25,000
Tinnevelly	...	...	1,500
Buckingham Canal	...	...	7,000
Total ...	...	13,900	3,74,389

No. 357 I., 24TH APRIL 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation, Account.

READ—the following paper :—

Note by the Chief Engineer for Irrigation.

No. 94 I.

The accompanying final issue of the budget estimates of the Irrigation Branch for 1896–97, which have been prepared to work up to the following grants approved by the Government of India in its Orders, No. $\frac{4}{B.O.}$ A.I., dated 20th March 1896, printed in Proceedings of Madras Government No. 318 I., dated 2nd April 1896, are submitted to Government :—

35. *Construction of Protective Irrigation Works.*

	Rs.
Imperial	1,89,000
42. Major Works (Working Expenses)—	
Imperial	12,80,000
43. Minor Works and Navigation—	
Provincial	38,95,000
Incorporated Local	8,000
49. Capital Expenditure not charged to Revenue—	
Imperial	9,41,000

IMPERIAL.

2. The distribution of the grants under "35. Protective Works, Irrigation" and "42. Major Works (Working Expenses)" shown in the preliminary budget has been adhered to.

3. Under "49. Capital Expenditure not charged to Revenue" the Government of India having increased the total provisional assignment of Rs. 8,88,500 by Rs. 52,500, the preliminary grant of Rs. 5,22,500 proposed for the Kistna delta system has been increased to that extent in the final budget in accordance with G.O. No. 318 I., dated 2nd April 1896.

PROVINCIAL.

4. The revised estimate under this head adopted by the Government of India excludes the reduction intimated in the telegram printed in Proceedings of Madras Government No. 296 I., dated 26th March 1896.

5. The distribution by departmental heads of the preliminary budget grants for the Sagiléru project, the Thadapalli channel and Cheyar anicut systems has been slightly modified, with reference to the schedules submitted with letters Nos. 2 and 68 I., dated 1st and 2nd April 1896, from the Superintending Engineers, III and IV Circles, respectively.

6. The Superintending Engineer, III Circle, should expedite the submission, for the sanction of Government, of the revised estimates now under preparation for the Sagiléru project.

7. Subsequent to the issue of G.O. No. $\frac{1084}{A}$ I., dated 14th December 1895, it having been found that the estimates for the Cooum Improvements Scheme should be submitted for the sanction of the Government of India, the commencement of the

work was ordered to be deferred in G.O. No. 190 I., dated 21st February 1896, and no liabilities incurred till further orders. For effecting the object for which this scheme was designed, a less expensive alternative arrangement has been submitted for the consideration of Government.

8. The grant for extensions and improvements, Buckingham canal, has been increased by Rs. 1,120 by transfer of that amount from the grant under maintenance and repairs to the canal, the Superintending Engineer, II Circle, having reported in his endorsement No. 485 B.C., dated 18th March 1896, that the preliminary grant of Rs. 1,000 under the former head was inadequate.

9. The grant for maintenance and repairs for the Pálár anicut system in the Chingleput division has been increased from Rs. 5,000 to Rs. 8,400, the Superintending Engineer, V Circle, having in his endorsement No. 73 E.I., dated 20th March 1896, represented that the additional amount of Rs. 3,400 was required for the execution of sanctioned works, for starting which arrangements have already been made.

10. An allotment of Rs. 5,000 has been provided for excavating a navigable canal to the Pandraka salt factory in the Kistna Eastern division in accordance with G.O. No. 320 I., dated 2nd April 1896.

11. To admit of the restoration of tanks in the Bezwada taluk damaged last year by floods being proceeded with, the grant for the Kistna Northern division under repairs to ordinary minor works for which neither Capital nor Revenue Accounts are kept, P.W.D., has been increased from Rs. 2,000 to Rs. 8,000, the additional grant being provided by reducing the grant for that division under tank restoration repairs by Rs. 6,000, as desired by the Superintending Engineer, II Circle, in his endorsement No. 2591 K.S., dated 8th March 1896.

12. In his letter No. 37, dated 10th February 1896, the Superintending Engineer on Special Duty, Cauvery Completion Estimates, having suggested that a special grant may be allotted for the conservancy of the Coleroon with a view to prepare it for the flood discharge at 250,000 to 300,000 cubic feet per second which it must eventually take, the grant for the Tanjore division under repairs to Agricultural works has been increased from Rs. 45,000 to Rs. 60,000 in accordance with endorsement No. 61 E.I., dated 17th March 1896, of the Superintending Engineer, VI Circle, has not yet replied to the reference made to him as to the extent to which the preliminary grant for the Trichinopoly division under this head should be augmented to admit of work of a similar kind required to be done in that division being proceeded with. On the receipt of his reply the necessary funds will be appropriated from the reserve. An additional grant of Rs. 3,000 has been provided for the Chingleput division with reference to endorsement No. 73 E.I., dated 20th March 1896, of the Superintending Engineer, V Circle.

13. In the preliminary budget funds were provided for the following major original works:—

Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.

	Amount provided.
	Rs.
Nellore division—Idumapalli tank improvements	9,000
Kurnool division—Yerragundampolliem tank improvements ...	2,000
Salem division—Excavating a new supply channel to Pennagoondapuram tank	6,000
Agricultural Works.	
Tanjore division—Improving Moodicondanar both banks below road No. 15	2,000
South Arcot division—Raising and strengthening the Coleroon left flood bank and restoring sluices	10,000

As the estimates for the above works have not yet been sanctioned, no provision has been made for them in the final budget, and the amounts thus set free have been credited to the reserve, from which any funds required for expenditure on the works may be appropriated later on in the year when the estimates are sanctioned.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

ORDER—No. 357 I., dated 24th April 1896.

The final issue of the Irrigation budget estimates for 1896–97 as drawn up by the Chief Engineer for Irrigation is approved, and fifty * printed copies thereof will be forwarded to the Government of India.

* Fifteen to Simla and the remainder to Calcutta.

[Here enter No. 358 I., dated 24th April 1896.]

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Secretary to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ the Chief Engineer, Tank Restoration Scheme.
„ Superintending Engineers.
„ the Superintending Engineer, Special Duty, Cauvery Completion Estimates.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.
„ the Financial „

Rxd. T. K. Narayana Aiyangar.
Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated April, 24th.

Recd. *Encl.*

G.O. No. 357 I., 24th April 1893.

APRIL.

Budget Estimates

The final issue of the Irrigation — for 1896–97, as drawn up by the Chief Engineer for Irrigation, approved; and copies ordered to be forwarded to the Government of India.

Public Works (1896) Department.