~~Marine~~ (1899) Department.

P. W.

Special

G.O., No. 3957
3965

DATED 2nd May 1899

2/5/99

[Despatch Abstract.]

Irrigation Budget Estimates.

The final issue of the — for 1899-1900, as drawn up by the Chief Engineer for Irrigⁿ, approved with remarks; and copies thereof ordered to be forwarded to the Govt of India.

Irrigation Budget Estimates

Forwarding copies of the final issue of the — for 1899-1900.

[illegible]

BACK PAPERS.

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

FURTHER PAPERS.

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

IRRIGATION.
ACCOUNT.

Government {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899. *Enclosures*

Regd. } *Spare copies*

G.O., Nos. 395, 396 I., 2nd May 1899.

MAY.

Irrigation Budget Estimates

Forwarding copies of the final issue of the — for 1899–1900.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

No. 89 I.

Note by the Chief Engineer for Irrigation.

The accompanying Final Issue of the Budget Estimates of the Irrigation Branch for 1899–1900, which has been prepared to work up to the following grants, approved by the Government of India, in its orders No. $\frac{7}{\text{B.O.}}$ A.I., dated 20th March 1899, printed in Proceedings of Madras Government, No. 319 I., dated 29th March 1899, is submitted to Government :—

	RS.
35. Construction of Protective works, Irrigation—	
Imperial	31,000
42. Major works (Working expenses)—	
Imperial	15,25,000
43. Minor Works and Navigation—	
Provincial	29,80,000
Incorporated Local	9,000
49. Capital expenditure not charged to Revenue—	
Imperial	6,00,000

2. *Imperial.*—The distribution of the grants under "35. Protective works, Irrigation," "42. Major works (Working expenses)," and "49. Capital expenditure not charged to Revenue" shown in the preliminary budget estimates has been adhered to.

3. *Provincial.*—The grant provided in the preliminary issue of the budget estimates for the Chopaud project on Capital account, has been reduced from Rs. 36,900 to Rs. 35,980 with reference to the schedule forwarded by the Superintending Engineer, III Circle, with his No. 1428 I., dated 12th April 1889. The Superintending Engineer should expedite the submission of the revised estimate for this project called for in G.O., No. 1064 I., dated 29th November 1897.

4. The preliminary grant for the Lower Coleroon anicut system, Capital account, has been reduced by Rs. 880, as the usual percentage charge for establishment is not required on the amount provided in the Superintending Engineer's schedule for land compensation.

5. Allotments of Rs. 5,800 and Rs. 2,100 for the Shatiatope and Pelandorai anicut systems, respectively, on Capital account, have been provided by reducing the reserve, the Superintending Engineer, V Circle, having in his endorsement No. 159 E.I., dated 14th April 1899, represented that the amounts are required for the completion of the marginally-noted sanctioned improvements which were not completed during 1898–99, as anticipated.

Shatiatope anicut system.—(1) Constructing an apron in front of —.
Pelandorai anicut system.—(1) Lowering the crest of the anicut and fitting it with 6 feet girder shutters counterweighted and with suitable gearing.

6. The Superintending Engineer, V Circle, having, in his No. 65 E.I., dated 16th February 1899, applied for a grant for the Buckingham canal, on Capital account, for the execution of two works, for one of which, viz., "constructing an outlet sluice of twenty vents at 89th mile on the Buckingham canal," an estimate amounting to Rs. 15,020 was sanctioned in G.O., No. 913 I., dated 24th November 1898, Rs. 17,600 have been appropriated from the reserve to meet the demand. The estimate for the unsanctioned work,* which was returned to the Superintending Engineer, and for which an allotment of Rs. 4,608 has been provided, should be resubmitted as early as possible with the information called for in this office No. V./4 B.C., dated 3rd February 1899, in view to the estimate being submitted for the sanction of Government.

* Constructing a masonry weir across the Gangapatam backwater.

7. In his endorsement No. 1362 I., dated 6th April 1899, the Superintending Engineer, III Circle, applied for a grant of Rs. 2,880 for the payment of land compensation for the Thoortha channel cross bank and head sluice in the Bellary division for which an estimate was sanctioned in G.O., No. 918 I., dated 29th November 1898, as the land compensation was not paid by the Revenue Department in 1898-99, although the necessary funds were provided in that year. This amount has also been appropriated from the reserve.

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

2nd May 1899.

ORDER—No. 395 I., dated 2nd May 1899.

The Final Issue of the Irrigation Budget Estimates for 1899–1900 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 copies to Simla and the remainder to Calcutta.

2. From the remarks in Part I of the Budget Estimates it is observed that funds have been provided for several major and minor works in anticipation of sanction to the estimates. Should there be no probability that the estimates for any of these works will be submitted for sanction in sufficient time to admit of the grants provided being fully utilized, the Superintending Engineers concerned will arrange, at an early date, for utilizing the funds available on other sanctioned works in their circles.

[Here enter No. 396 I., dated 2nd May 1899.]

(True Extract.)

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

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

ENDORSEMENT—No. 396 I., dated 2nd May 1899.

Forwarded accordingly.

(By order.)

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

Exd. T. K. Narayana Aiyangar.

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION—MAJOR WORKS

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1899-1900.

B

RAS,
1899.

(Signed) W. HUGHES,
Joint Secretary to Government, 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 1899 to 31st March 1900.

	Actual Realizations, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
IMPERIAL.				
MAJOR WORKS (DIRECT RECEIPTS). (PRODUCTIVE.)				
Gódávari Delta System, Collections in the Public Works Department.	96,447	1,12,000	99,000	99,000
Kistna Delta System do. do.	45,228	45,600	53,000	55,000
Pennéru Anicut System do. do.	376	400	400	400
Sangam Anicut System do. do.	1,311	600	800	800
Cauvery Delta System do. do.	3,347	3,100	3,300	3,200
Srívaikuntam Anicut System do. do.	1,975	1,300	1,450	1,500
Periyár Project do. do.	684	...	...	...
Collections in the Revenue Department ...	1,43,269	1,20,000	1,40,947	1,22,000
Deduct Collection Charges	7,163	6,000	7,047	6,100
Net Collections in the Revenue Department ...	1,36,106	1,14,000	1,33,900	1,15,900
Collections in the Public Works Department...	6,156	9,500	6,650	7,700
Total ...	1,42,262	1,23,500	1,40,550	1,23,600
(PROTECTIVE.)				
Deduct Revenue Project, Collections in the Public Works Department...	784	1,500	1,500	1,500
Total ...	2,92,414	2,88,000	3,00,000	2,85,000

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, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Gódávari Delta—				
Irrigation Revenue	30,37,567	30,25,000	30,25,000	32,25,000
Deduct Revenue due to old Irrigation	1,24,000	1,24,000	1,24,000	1,24,000
Revenue due to the System	29,13,567	29,01,000	29,01,000	31,01,000
Share of enhanced Land Revenue	1,49,188	1,54,000	1,54,500	1,54,500
Total	30,62,755	30,55,000	30,55,500	32,55,500
Deduct Collection Charges in the Civil Department	1,53,203	1,52,750	1,52,775	1,63,000
Net Revenue	29,09,552	29,02,250	29,02,725	30,92,500
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	1,304	1,750	1,275	1,500
Total	29,10,856	29,04,000	29,04,000	30,94,000
Kistna Delta—				
Irrigation Revenue	23,57,209	22,29,000	23,50,000	23,60,000
Deduct Revenue due to old Irrigation	71,000	71,000	71,000	71,000
Revenue due to the System	22,86,209	21,58,000	22,79,000	22,89,000
Share of enhanced Land Revenue	1,34,250	1,39,500	1,39,400	1,39,40
Total	24,20,459	22,97,500	24,18,400	24,28,4
Deduct Collection Charges in the Civil Department	1,21,488	1,14,875	1,20,920	1,21
Net Revenue	22,98,971	21,82,625	22,97,480	23,0
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	9,296	9,375	10,520	1
Total	23,08,267	21,92,000	23,08,000	23
Pennéru Anicut—				
Irrigation Revenue	2,60,297	2,64,000	2,64,000	
Deduct Revenue due to old Irrigation	1,17,000	1,17,000	1,17,000	
Revenue due to the System	1,43,297	1,47,000	1,47,000	
Share of enhanced Land Revenue	20,363	21,000	21,000	
Total	1,63,660	1,68,000	1,68,00	
Deduct Collection Charges in the Civil Department	8,211	8,550	8,40	
Net Revenue	1,55,449	1,59,450	1,59,6	
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	561	550		
Total	1,56,010	1,60,000	1,60	

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, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Sangam Anicut—				
Irrigation Revenue	3,01,814	3,17,000	3,32,593	3,40,900
Deduct Revenue due to old Irrigation	1,39,000	1,39,000	1,39,000	1,39,000
Revenue due to the System	1,62,814	1,78,000	1,93,593	2,01,900
Share of enhanced Land Revenue	16,034	15,593	19,015	22,015
Total	1,78,848	1,93,593	2,12,608	2,23,915
Deduct Collection Charges in the Civil Department	9,298	9,293	10,808	11,215
Net Revenue	1,69,550	1,84,300	2,01,800	2,12,700
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	7,116	6,700	7,200	7,300
Total	1,76,666	1,91,000	2,09,000	2,20,000
Cauvery Delta—				
Irrigation Revenue	42,28,783	42,21,000	42,51,000	42,63,000
Deduct Revenue due to old Irrigation	33,80,065	33,74,200	33,97,600	34,07,400
Revenue due to the System	8,48,718	8,46,800	8,53,400	8,55,600
Share of enhanced Land Revenue	1,11,525	1,13,420	1,13,520	1,14,550
Total	9,60,243	9,60,220	9,66,920	9,70,150
Deduct Collection Charges in the Civil Department	48,012	48,220	47,920	48,150
Net Revenue	9,12,231	9,12,000	9,19,000	9,22,000
Srívaikuntam Anicut—				
Irrigation Revenue	1,89,738	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	1,10,738	1,06,000	1,06,000	1,06,000
Share of enhanced Land Revenue	1,775	2,000	2,000	2,000
Total	1,12,513	1,08,000	1,08,000	1,08,000
Deduct Collection Charges in the Civil Department	5,626	5,000	5,000	5,000
Net Revenue	1,06,887	1,03,000	1,03,000	1,03,000
Barur Tank—				
Irrigation Revenue	11,622	13,000	12,000	12,500
Deduct Revenue due to old Irrigation	2,000	2,000	2,000	2,000
Revenue due to the System	9,622	11,000	10,000	10,500
Share of enhanced Land Revenue	2	...	...	...
Total	9,624	11,000	10,000	10,500
Deduct Collection Charges in the Civil Department	481	1,000	500	500
Net Revenue	9,143	10,000	9,500	10,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	...	...	...	...
Total	9,143	10,000	9,500	10,000

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, 1897–98.	Budget Estimate, 1898–99.	Revised Estimate, 1898–99.	Budget Estimate, 1899–1900.
IRRIGATION—*continued.*	Rs.	Rs.	Rs.	Rs.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Kurnool-Cuddapah Canal—				
Share of enhanced Land Revenue under tanks owing to supply of canal water	6,855	7,350	7,500	7,500
Deduct Collection Charges in the Civil Department	343	350	375	375
Net Revenue ...	6,512	7,000	7,125	7,125
Rushikulya Project—				
Irrigation Revenue	1,13,652	1,10,000	1,20,000	1,20,000
Deduct Revenue due to old Irrigation	52,549	45,000	50,000	50,000
Revenue due to the System	61,103	65,000	70,000	70,000
Share of enhanced Land Revenue	95	200	200	200
Total ...	61,198	65,200	70,200	70,200
Deduct Collection Charges in the Civil Department	3,060	3,150	3,200	3,200
Net Revenue ...	58,138	62,050	67,000	67,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	6	950	1,000	1,000
Total ...	58,144	63,000	68,000	68,000
Periyár Project—				
Irrigation Revenue	3,61,756	4,51,550	4,51,550	4,24,800
Deduct Revenue due to old Irrigation	2,62,384	2,39,340	2,39,340	1,91,290
Revenue due to the System	99,372	2,12,210	2,12,210	2,33,510
Share of enhanced Land Revenue	2,678	20,000	20,000	44,209
Total ...	1,02,050	2,32,210	2,32,210	2,77,719
Deduct Collection Charges in the Civil Department	5,610	11,823	11,610	13,719
Net Revenue ...	96,440	2,20,387	2,20,600	2,64,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	10,141	40,613	40,400	50,000
Total ...	1,06,581	2,61,000	2,61,000	3,14,000
Total—				
Irrigation Revenue	1,08,62,438	1,08,15,550	1,09,91,143	1,11,95,200
Deduct Revenue due to old Irrigation	42,26,998	41,90,540	42,18,940	41,80,690
Revenue due to the System	66,35,440	66,25,010	67,72,203	70,14,510
Share of enhanced Land Revenue	4,42,765	4,72,063	4,76,510	5,05,249
Total ...	70,78,205	70,97,073	72,48,713	75,19,759
Deduct Collection Charges in the Civil Department	3,55,332	3,55,011	3,61,508	3,75,359
Net Revenue ...	67,22,873	67,42,062	68,87,205	71,44,400
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	28,424	59,938	60,795	70,600
Total ...	67,51,297	* 68,02,000	69,48,000	72,15,000

* Includes Rs. 8,000 which represents 4 per cent. on sale-proceeds of tank-bed and other waste lands chiefly in the Gódávari and Kistna delta systems not reported by the Board of Revenue in time to admit of its inclusion in the budget estimate of the year.

GOVERNMENT OF MADRAS.

CHARGES.

Abstract Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year from 1st April 1899 to 31st March 1900.

	Reference to Detailed Estimate.	Actual Outlay, 1897–98.	Budget Estimate, 1898–99.	Revised Estimate, 1898–99.	Budget Estimate, 1899–1900.
IMPERIAL.	Pages.	Rs.	Rs.	Rs.	Rs.
MAJOR (PROTECTIVE) WORKS.					
Famine Relief and Insurance.					
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.					
1. Works ... ... { In progress ... Rs. 25,000 / Not commenced. ... }	10 & 11	1,13,169	80,000	55,284	25,000
2. Establishment	36	32,748	18,400	12,716	5,750
3. Tools and plant	37	— 1,449	600	...	250
5. Receipts on capital account	...	— 460	...	...	...
Total ...		1,44,008	99,000	68,000	31,000
42. MAJOR WORKS (WORKING EXPENSES).					
1. Extensions and improvements. { In progress ... ... / Not commenced ... Rs. 84,979 }	10 to 13	52,761	89,996	75,717	84,979
2. Maintenance and repairs	29 to 33	6,26,555	6,63,364	6,25,461	6,93,034
3. Compensation *	...	40,000	40,000	40,000	40,000
4. Establishment	36	5,70,331	5,88,398	5,85,394	6,16,792
5. Tools and plant	37 & 38	1,00,483	1,18,242	1,10,428	90,195
6. Refunds of revenue	...	519	...	...	...
Total, Working Expenses ...		13,90,649	15,00,000	14,37,000	15,25,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.					
49. IRRIGATION.					
1. Works ... ... { In progress ... Rs. 3,00,300 / Not commenced ... 1,93,818 }	12 to 28	6,09,157	3,91,414	4,31,168	4,94,118
2. Establishment	36	1,21,484	85,426	94,032	1,03,106
3. Tools and plant	39	55,015	23,160	10,800	2,776
5. Receipts on capital account	...	...	...	...	...
Total, Capital Expenditure ...		7,85,656	5,00,000	5,36,000	6,00,000

* Annual rent payable to the Travancore Durbar under the Periyár lease.

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1899–1900, *arranged by Projects and Objects of Work.*

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99 (Revised Estimate).	Budget Estimate, 1899–1900.	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	45,53,000	42,55,220	99,000	68,000	31,000	Government of India register No. 7 I. of 1894–95. Proceedings of Madras Govt. No. 846 I. of 7th November 1894. Government of India register No. 13 I. of 1898–99. P.M.G. No. 955 I., dated 13th December 1898.
42. MAJOR WORKS (WORKING EXPENSES).						
Gódávari Delta	...	...	5,10,000	5,71,480	5,74,000	
Kistna do.	...	...	6,21,000	5,11,178	5,86,000	
Pennéru Anicut	...	...	22,000	6,514	16,000	
Sangam do.	...	...	33,000	29,036	34,000	
Kurnool-Cuddapah Canal ...	...	...	90,000	1,07,355	90,000	
Barur Tank Project	...	...	2,000	1,940	2,000	
Cauvery Delta	...	...	60,000	37,231	61,000	
Srívaikuntam Anicut ...	...	...	25,000	23,785	20,000	
Periyár Project	...	...	92,000	1,10,400	92,000	
Rushikulya Project	...	...	45,000	38,081	50,000	
Total ...	...	...	15,00,000	14,37,000	15,25,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION.						
Projects in Progress.						
Gódávari Delta System ...	1,14,48,285	1,10,75,793	1,11,000	87,945	60,000	P.M.G. No. 283 I., dated 24th March 1896; No. 507 I., dated 12th June 1896; No. 618 I., dated 29th July 1896; No. 14 I., dated 5th January 1897; No. 536 I., dated 10th June 1897; No. 732 I., dated 9th August 1897; No. 790 I., dated 30th August 1897; No. 696 I., dated 28th July 1897; No. 969 I., dated 29th October 1897; No. 41 I., dated 18th January 1898; No. 109 I., dated 8th February 1898; No. 186 I., dated 9th March 1898; No. 643 I., dated 24th August 1898; No. 820 I., dated 25th October 1898; No. 833 I., dated 27th October 1898 and No. 846 I., dated 31st October 1898. Estimates for other works are under preparation.
Kistna Delta do. ...	1,39,43,754	1,23,50,690	1,98,000	1,82,667	2,25,000	Construction estimate closed on 31st March 1898. Schedule of works remaining to be completed under preparation. P.M.G. No. 665 I., dated 3rd September 1898; No. 765 I., dated 4th October 1898; No. 924 I., dated 30th November 1898; No. 197 I., dated 24th February 1899; and No. 278 I., dated 18th March 1899.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part I—continued.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99 (Revised Estimate.)	Budget Estimate, 1899–1900.	Remarks and References.
IMPERIAL—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE—*cont.*						
49. IRRIGATION—cont.						
Projects in Progress—cont.						
Cauvery Delta System ...	26,47,227	18,65,959	33,000	1,16,301	2,25,000	P.M.G. No. 443 I., dated 11th May 1897; No. 454 I., dated 14th May 1897; No. 500 I., dated 28th May 1897; No. 644 I., dated 17th July 1897; No. 730 I., dated 9th August 1897; No. 755 I., dated 17th August 1897; No. 790 I., dated 30th August 1897; No 844 I., dated 20th September 1897; No. 990 I., dated 10th November 1897; No. 1102 I., dated 9th December 1897; No. 43 I., dated 18th January 1898; No. 294 I., dated 6th April 1898; No. 565 I., dated 22nd July 1898; No. 697 I., dated 12th August 1898; Nos. 715 I., dated 17th September 1898 and No. 856 I., dated 1st November 1898.
Srívaikuntam Anicut System.	13,89,262	13,70,741	...	5,658	16,000	P.M.G., No. 650 I., dated 12th August 1895; No. 852 I., dated 22nd October 1896; No. 564 I., dated 17th June 1897; No. 415 I., dated 21st May 1898. Estimate for another work is under preparation.
Periyár Project	83,38,437	82,92,852	1,58,000	1,42,602	74,000	Construction estimate closed on 31st March 1897. Schedule of works remaining to be completed under preparation. P.M.G. No. 361 I., dated 13th April 1897; No. 397 I., dated 27th April 1897; No. 572 I., dated 23rd June 1897; No. 788 I., dated 26th August 1897; No. 796 I., dated 1st September 1897; No. 842 I., dated 20th September 1897; No. 887 I., dated 7th October 1897; No. 900 I., dated 10th October 1897; No. 910 I., dated 14th October 1897; No. 942 I., dated 21st October 1897; No. 994 I., dated 10th November 1897; No. 1003 I., dated 12th November 1897; No. 1013 I., dated 13th November 1897; and Nos. 1104 I. and 1141 I., dated 9th and 22nd December 1897; No. 298 I., dated 6th April 1898; No. 385 I., dated 10th May 1898; No. 389 I., dated 11th May 1898; No. 501 I., dated 30th June 1898; No. 561 I., dated 22nd July 1898; No. 563 I., dated 22nd July 1898; No. 586 I., dated 29th July 1898; No. 636 I., dated 22nd August 1898; No. 713 I., dated 17th September 1898; No. 787 I., dated 13th October 1898; No. 836 I., dated 28th October 1898; No. 876 I., dated 10th November 1898; No. 878 I., dated 10th November 1898; No. 69 I., dated 11th January 1899; No. 179 I., dated 20th February 1899; No. 188 I., dated 22nd February 1899; No. 199 I., dated 24th February 1899; No. 207 I., dated 28th February 1899; No. 284 I., dated 18th March 1899; and No. 299 I., dated 24th March 1899.
Total ..	...	...	...	...	6,00,000	

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Details of the Budget Estimate for Original Works under Irrigation

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.
				IMPERIAL.
				MAJOR (PROTECTIVE) WORKS.
				Famine Relief and Insurance.
				35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.
				Capital Account.
				RUSHIKULYA PROJECT.
				(1) HEAD WORKS.
				Rushikulya Section.
Ganjám ...	...	3. Works ...	1	Suradá reservoir dam ... ...
			2	Channel to take the Pathama river into Suradá reservoir.
			3	Waste weir channel, Suradá reservoir ... ...
				Total Rushikulya project ...
				IRRIGATION.
				42. MAJOR WORKS (WORKING EXPENSES).
				EXTENSIONS AND IMPROVEMENTS.
				Gódávari Delta System.
Gódávari Eastern.	...	.....	4	Extensions and improvements ... ...
Gódávari Central.	...	.....	5	Do. do. ... ...
Gódávari Western.	...	.....	6	Do. do. ... ...
				Total ...
				Kistna Delta System.
Kistna Eastern.	...	.....	7	Extensions and improvements ... ...
Kistna Western.	...	.....	8	Do. do. ... ...
				Total ...
				Pennéru Anicut System.
Nellore ...	...	.....	9	Extensions and improvements ... ...
				Deduct old maintenance charges ... ...
				Net grant ...
				Sangam Anicut System.
			10	Extensions and improvements ... ...
				Deduct old maintenance charges ... ...
				Net grant ...

* These sums are provided in the budget estima

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Major Works in the Madras Presidency for the year 1899–1900.

Amount of estimate.	Outlay		Grant for 1899–1900.	Item No.	Remarks and references.
	To end of 1897–98.	Probable during 1898–99.			
Rs.	Rs.	Rs.	Rs.		
4,26,200	3,21,760	60,000	21,000	1	P.M.G., No. 955 I., dated 13th December 1898.
41,160	26,711	10,000	2,900	2	
21,800	14,742	4,000	1,100	3	
...	...	...	25,000		
...	...	5,750	7,000	4	
...	...	10,000	10,000	5	
...	...	10,000	10,000	6	
...	...	25,750	27,000		
...	...	10,600	22,000	7	
...	...	3,943	5,000	8	
...	...	14,543	27,000		
...	...	1,800	3,000	9	
...	...	3,564	3,564		
...	...	—1,764	—564		
...	...	1,332	4,963	10	
...	...	* 345	* 345		
...	...	987	4,618		

for Minor Works and Navigation for 1899–1900.

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 1897-98.	Outlay: Probable during 1898-99.	Grant for 1899-1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				EXTENSIONS AND IMPROVEMENTS—*cont.*						
				Kurnool-Cuddapah Canal.						
Kurnool ...	...	.....	11	Extensions and improvements	...	...	12,000	3,493	11	
				Cauvery Delta System.						
Tanjore ...	...	.....	12	Extensions and improvements	...	...	12,000	15,193	12	
Negapatam ...	...	.....	13	Do. do.	...	...	6,000	6,000	13	
Trichinopoly ...	...	.....	14	Do. do.	...	...	500	1,000	14	
				Total ...	...	...	18,500	22,193		
				Srivaikuntam Anicut System.						
Tinnevelly ...	...	.....	15	Extensions and improvements	...	...	928	1,591	15	
				Deduct old maintenance charges	...	...	352	* 352		
				Net grant ...	...	...	576	1,239		
				Total, Extensions and Improvements ...	...	...	...	84,979		
				CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
				49. IRRIGATION.						
				GODAVARI DELTA SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				Eastern Section.						
Gódávari Eastern.	...	.....	16	Reserve for works	...	...	...	4,065	16	
				Central Section.						
				(2) Main Canals and Branches.						
				Bank Canal.						
Gódávari Central. ...		2. Land ...	17	Constructing a combined drainage outfall sluice, aqueduct, and surplus weir at 42¾ miles, Bank canal.	1,220	...	...	1,000	17	P.M.G., No. 833 I., dated 27th October 1898.
		6. Other cross drainage works.	18	Do. do.	15,900	...	...	7,580	18	P.M.G., No. 833 I., dated 27th October 1898.
				(3) Distributaries.						
				Gunnaram Canal.						
		3. Works	19	Excavating Sivacodu channel	750	...	...	750	19	P.M.G., No. 109 I., dated 8th February 1898.
			20	Constructing an under tunnel at 4 miles 6 furlongs and 535 feet of Kadali channel.	3,200	...	...	1,300	20	P.M.G., No. 251 I., dated 14th March 1899.
		4. Earthwork ...	21	Excating Sivacodu channel	1,227	...	...	1,008	21	P.M.G., No. 109 I., dated 8th February 1898.
				Bank Canal.						
		1. Preliminary expenses.	22	Pasumilla channel project	180	...	...	180	22	
		2. Land	23	Do. do.	8,680	...	...	3,000	23	P.M.G., No. 331 I., dated 10th April 1899.
		4. Earthwork ...	24	Do. do.	2,770	...	...	1,500	24	P.M.G., No. 331 I., dated 10th April 1899.
		5. Miscellaneous ...	25	Do. do.	320	...	...	320	25	P.M.G., No. 331 I., dated 10th April 1899.
				Total, Gódávari Central Section ...	...	...	...	16,638		

* This sum is provided in the budget estimates for Minor Works and Navigation for 1899-1900.

Major Works in the Madras Presidency for the year 1899–1900—continued.

Details of the Budget Estimate for Original Works under Irrigation

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.
				Western Section.
				(2) Main Canals and Branches.
				Ellore Canal.
Gódávari Western.	...	5. River and hill torrent works.	26	Constructing cross drainage works, Ellore canal.
				Narsapur Canal.
		6. Other cross drainage works.	27	Narsapur canal undertunnel and drainage scheme.
				(4) Drainage and Protective Works.
		2. Land	28	Excavating a short cut on the Yenamadur drain to Nayudupallem.
		4. Earthwork ...	29	Do. do. ... ...
				Total, Gódávari Western Section ...
				Total, Gódávari Delta System ...
				KISTNA DELTA SYSTEM.
				Eastern Section.
				(2) Main Canals and Branches.
Kistna Eastern.	...	6. Other cross drainage works.	30	Minor works ... ...
		8. Escapes ...	31	Do. ... ...
				(3) Distributaries.
		4. Earthwork ...	32	Excavating Gogunta channel ... ...
		3. Works ...	33	Minor works ... ...
		4. Earthwork ...	34	Do. ... ...
		5. Miscellaneous ...	35	Do. ... ...
				(4) Drainage and Protective Works.
		4. Earthwork ...	36	Excavating Pedapadu escape drain ... ...
		3. Works ...	37	Minor works ... ...
				Ryves' Canal.
				(2) Main Canals and Branches.
		10. Buildings ...	38	Constructing rest-house on Dosapadu channel ...
				(3) Distributaries.
		3. Works	39	Minor works ... ...
		5. Miscellaneous ...	40	Do. ... ...
				(4) Drainage and Protective Works.
		3. Works ...	41	Minor works ... ...

Major Works in the Madras Presidency for the year 1899–1900—continued.

Amount of estimate.	Outlay		Grant for 1899–1900.	Item No.	Remarks and references.
	To end of 1897–98.	Probable during 1898–99.			
Rs.	Rs.	Rs.	Rs.		
20,800	...	...	6,200	26	P.M.Gs., No. 391 I., dated 12th May 1898, and No. 820 I., dated 25th October 1898.
5,000	...	...	3,000	27	Estimate under preparation.
3,000	...	...	2,000	28	P.M.G., No. 41 I., dated 18th January 1898, No. 296 I., dated 6th April 1898, and No. 643 I., dated 24th August 1898.
81,620	...	...	18,000	29	
...	...	...	29,200		
...	...	...	49,903		
2,530	45	1,285	500	30	
1,600	...	1,100	500	31	
2,490	753	200	1,500	32	The construction estimate of this system having been closed on the 31st March 1898, the schedule, completion report, &c., prescribed in paragraph 35, III, Chapter V, Vol. II, Pubic Works Department Code, are under preparation.
2,360	1,467	90	605	33	
930	506	...	325	34	
890	298	180	380	35	
4,665	36	2,000	800	36	
800	419	100	200	37	
3,850	1,140	500	4,000	38	
1,502	955	...	520	39	
2,420	525	...	1,200	40	
1,900	11	900	1,000	41	

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Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1899-1900—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant for 1899-1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Eastern Section—cont.						
				Masulipatam Canal.						
				(2) Main Canals and Branches.						
Kistna Eastern —*cont.*	...	12. Earthwork ...	42	Widening 2nd reach	15,750	...	3,000	10,000	42	
		8. Escapes ...	43	Constructing surplus weir at 22nd mile ...	4,300	...	2,000	2,300	43	
		9. Navigation ...	44	Alterations to Nidumole lock and weir ...	500	...	...	750	44	
				(3) Distributaries.						
		4. Earthwork ...	45	Excavating Chorogudi branch	...	...	...	4,220	45	
		Do. ..	46	Do. Boddopadu branch channel ...	...	...	...	3,360	46	
		Do. ...	47	Minor works	6,530	528	1,372	4,270	47	
		3. Works ...	48	Do.	1,640	68	510	750	48	
		5. Miscellaneous.	49	Do.	340	...	100	240	49	
				Pulleru Canal.						
				(3) Distributaries.						
		4. Earthwork ...	50	Extension of Gudivada channel	...	...	...	2,000	50	
		Do. ...	51	Excavating Neeladin codu	...	...	...	2,600	51	
		Do. ...	52	Proposed Pengendra channel	...	...	...	2,000	52	
		Do. ...	53	Minor works	2,149	100	649	1,400	53	
				Bantumalli Canal.						
				(4) Drainage and Protective Works.						
		4. Earthwork ...	54	Excavating Munjulur affluent	...	...	...	2,850	54	
		2. Land ...	55	Land compensation	...	...	...	20,000	55	
				Total, Eastern Section ...	...	...	...	68,270		
				Western Section.						
				Bank Canal.						
				(3) Distributaries.						
Kistna Western.	...	4. Earthwork ...	56	Excavating Kollur side channel	4,000	...	...	2,000	56	
				(4) Drainage and Protective Works.						
		Do. ...	57	Excavating Royakampad drain	2,900	...	...	2,900	57	P.M.G., No. 197 I., dated 24th February 1899.
		4. Earthwork ...	58	Excavating the proposed straight cut on Repalle main drain.	39,760	32,550	6,307	1,000	58	
		2. Land ...	59	Compensation for land for Royakampad drain...	5,050	...	...	4,000	59	P.M.G., No. 197 I., dated 24th February 1899.
				Nizampatam Canal.						
		5. Miscellaneous.	60	Fixing bench mark stones to Tenali drain ...	3,750	2,134	852	770	60	
				Commamur Canal.						
				(3) Distributaries.						
		2. Land ...	61	Compensation for land for Tungabhadra side channel.	19,700	...	1,803	12,000	61	
		3. Works ...	62	Constructing Tenali road culvert and under tunnel at 1 mile 5 furlongs.	8,000	287	2,632	5,100	62	
		Do. ...	63	Constructing an aqueduct at 3 miles of the Tungabhadra side channel.	5,600	272	2,135	3,200	63	

Details of the Budget Estimate for Original Works under Irrigation

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.
				Commamur Canal—cont.
				(3) Distributaries—*cont.*
Kistna Western —cont.	...	3. Works ...	64	Constructing Kopalli drain under-tunnel at about 0/2 mile of Tungabhadra side channel.
		Do. ...	65	Constructing regulators for Aremenda and Alavala channels at 11 miles 7 furlongs of Tungabhadra side channel.
		4. Earthwork ...	66	Excavating the Tungabhadra side channel ...
		5. Miscellaneous..	67	Distributaries to irrigate Tungabhadra side channel.
				(4) Drainage and Protective Works.
		3. Works ...	68	Constructing an iron girder bridge on coast road in Perali drain.
		4. Earthwork ...	69	Excavating the Perali drain ... ...
				Pundla Channel.
				(3) Distributaries.
		3. Works ...	70	Under-tunnel at 2 miles 2 furlongs ... ...
		4. Earthwork ...	71	Excavating the channel ... ...
				Pundla Drain.
				(4) Drainage and Protective Works.
		3. Works ...	72	Road bridge over Kopalli drain across Tenali road.
		4. Earthwork ..	73	Excavating the drain ... ...
				Bank Canal.
				(2) Main Canals and Branches.
		15. Miscellaneous.	74	Constructing a cattle crossing at Donepadi, 24th mile of Bank canal.
				(3) Distributaries.
		3. Works ...	75	Tail escape to Aravapalli branch channel ...
		Do. ...	76	Tail dam in proposed surplus channel at 45 miles 6 furlongs of Bank canal.
		Do. ...	77	Fixing cement concrete pipe sluices to Aravapalli, branch of Isukapalli channel, Bank canal.
		Do. ...	78	Constructing bridge No. 1 at 1 mile 1 furlong of Varahapuram channel.
		Do. ...	79	Constructing bridge No. 2 at 1 mile 4 furlongs 560 feet of Varahapuram channel.
		Do.	80	Constructing bridge No. 3 at 2 miles 5 furlongs 500 feet of Varahapuram channel.
		Do. ...	81	Constructing bridge No. 4 at 3 miles 1 furlong 440 feet of Varahapuram channel.
				(4) Drainage and Protective Works.
		4. Earthwork ...	82	Anantavaram channel earthwork ... ...
		Do. ...	83	Ipur channel earthwork ... ...

Major Works in the Madras Presidency for the year 1899–1900—continued.

Amount of estimate.	Outlay		Grant for 1899–1900.	Item No.	Remarks and references.
	To end of 1897–98.	Probable during 1898–99.			
Rs.	Rs.	Rs.	Rs.		
3,620	224	1,685	1,700	64	
2,790	24	— 24	2,800	65	
22,340	...	15,329	7,000	66	
40,200	...	...	10,000	67	
20,000	3	...	2,000	68	
84,940	36,144	...	25,000	69	
3,420	...	...	1,000	70	
4,420	...	...	500	71	
4,670	...	...	2,000	72	
17,300	...	...	5,000	73	
2,030	...	1,229	800	74	
220	11	23	186	75	
100	15	12	73	76	
790	...	378	412	77	
1,100	527	250	323	78	
1,150	584	250	316	79	
1,150	653	250	247	80	
1,050	607	250	202	81	
1,000	...	...	400	82	
1,200	...	...	400	83	

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1899–1900—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897–98.	Outlay: Probable during 1898–99.	Grant for 1899–1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Nizampatam Canal.						
				(2) Main Canals and Branches.						
Kistna Western —*cont.*	...	9. Navigation works.	84	Wharf establishment shed at Tenali	1,250	...	...	1,000	84	
				Commamur Canal.						
				(3) Distributaries.						
		3. Works ...	85	Cement concrete pipe sluices to A B channel ...	690	395	262	40	85	
		Do. ...	86	Constructing a drop at 3 miles 1 furlong of Tungabhadra side channel.	1,310	...	517	807	86	
		Do. ...	87	Constructing a drop and bridge at 5 miles of Tungabhadra side channel.	1,940	...	...	1,940	87	
		Do. ...	88	Constructing head sluice to Tungabhadra-Bodapad channel at 11 miles 2 furlongs.	690	...	220	470	88	
		5. Miscellaneous...	89	Demarcation stones on distributaries in lower section.	1,260	4	342	914	89	
		Do. ...	90	Cattle-crossing No. 1 at 2 miles and 200 feet of Tungabhadra side channel.	350	...	120	230	90	
		Do. ...	91	Cattle-crossing No. 2 at 3 miles 6 furlongs and 100 feet of Tungabhadra side channel.	380	...	232	148	91	
		Do. ...	92	Cattle-crossing No. 3 at 4 miles 1 furlong and 540 feet of Tungabhadra side channel.	380	...	232	148	92	
		Do. ...	93	Cattle-crossing No. 4 at 7 miles 4½ furlongs of Tungabhadra side channel.	515	...	199	316	93	
		Do. ...	94	Cattle-crossing No. 5 at 7 miles 7 furlongs and 200 feet of Tungabhadra side channel.	525	...	215	310	94	
		Do. ...	95	Cattle-crossing No. 6 at 8 miles 1 furlong and 150 feet of Tungabhadra side channel.	530	...	240	290	95	
		Do. ...	96	Cattle-crossing No. 7 at 9 miles 5 furlongs of Tungabhadra side channel.	600	...	257	343	96	
		Do. ...	97	Cattle-crossing No. 8 at 10 miles 1 furlong and 80 feet of Tungabhadra side channel.	610	...	223	387	97	
		Do. ...	98	Cattle-crossing No. 9 at 10 miles 6 furlongs and 550 feet of Tungabhadra side channel.	620	...	253	367	98	
		Do. ...	99	Demarcation stones	650	...	213	437	99	
				Pundla Channel.						
				(2) Main Canals and Branches.						
		9. Navigation works.	100	Wharf establishment sheds at Chebrole ...	1,000	...	...	1,000	100	
				(3) Distributaries.						
		2. Land	101	Compensation for land for Pundla channel ...	800	...	...	400	101	
		Do. ...	102	Do. do. for Vellattur do. ...	20,900	...	...	3,430	102	
		3. Works ...	103	Head-sluice to Ramanappa channel	720	...	...	400	103	
		Do. ...	104	Do. to Appicatla channel	650	...	...	350	104	
		Do. ...	105	Do. to Pundla large tank bed channel ...	680	...	...	300	105	
		Do. ...	106	Do. to Pundla channel	2,020	...	...	1,000	106	
		Do. ...	107	Do. to Pundla large tank supply channel.	670	...	...	300	107	
		Do. ...	108	Tail dam	680	...	...	300	108	
		Do. ...	109	Regulator in Vellattur channel	2,680	...	...	3,000	109	
		4. Earthwork ...	110	Excavating Bápatla tank, West branch ...	2,830	...	...	2,000	110	
		Do. ...	111	Do. do East do. ...	2,280	...	...	1,800	111	
		Do. ...	112	Do. Vellattur channel	22,500	...	...	6,576	112	
		5. Miscellaneous ...	113	Cattle-crossings	800	...	...	400	113	
				Total, Kistna Western Section ...	...	...	...	1,20,732		
				Total, Kistna Delta System ...	...	...	...	1,89,002		

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1899–1900 —continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897–98.	Outlay: Probable during 1898–99.	Grant for 1899–1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				CAUVERY DELTA SYSTEM.						
				(1) Head Works.						
Tanjore	...	3. Works ...	114	Fitting lift shutters to the Grand anicut ...	1,34,000	70,040	59,877	3,000	114	P.M.G., No. 443 I., dated 11th May 1897.
		Do. ...	115	Improvements to the Upper Coleroon anicut ...	5,34,000	14,374	23,000	1,41,000	115	,, ,, 500 I., ,, 28th ,, ,,
		4. Buildings ...	116	Constructing superintendent and lascar's sheds at Sellore anicut across Vettar.	1,440	...	...	1,400	116	,, ,, 77 I., ,, 20th January 1897.
				(2) Main Canals and Branches.						
		3. Regulators ...	117	Constructing Puthar regulator	5,160	...	...	2,000	117	
		Do. ...	118	Do. Vellappaur regulator	7,440	...	...	4,000	118	
		Do. ...	119	Do. Puthar and Solasudamanyar regulator.	12,030	...	...	5,000	119	
		Do. ...	120	Do. Solasudamanyar regulator ...	5,270	...	...	3,000	120	P.M.G., No. 715 I., dated 17th September 1898.
		Do. ...	121	Do. a regulator and scouring sluice at head of Keerthimanar.	7,940	...	...	5,000	121	
		Do. ...	122	Do. scouring sluice	4,360	...	...	3,000	122	
				(3) Distributaries.						
		3. Works ...	123	Improving Kali voikal, an offtake of the Vickramanar.	2,930	1,343	1,590	700	123	P.M.G., No. 1086 I., dated 23rd December 1896.
		Do. ...	124	Improvements to the Kangayan channel branching from Cauvery left bank.	5,000	...	...	5,000	124	,, ,, 1102 I., ,, 9th December 1897.
		Do. ...	125	Constructing masonry regulating dam across Porai voikal for Varasiputhu Vadagal lands.	2,350	...	1,000	1,300	125	,, ,, 454 I., ,, 14th May 1897.
				Total, Tanjore Division ...	...	...	...	1,74,400		
				(4) Drainage and Protective Works.						
Negapatam ...	...	3. Works ...	126	Tolodur drainage syphon across the Sholavadiar channel. Re-constructing —.	1,440	...	...	1,440	126	P.M.G., No. 856 I., dated 1st November 1898.
			127	Reserve for works	...	...	...	6,365	127	
				Total, Negapatam Division ...	...	...	...	7,805		
				Total, Cauvery Delta System ...	...	...	...	1,82,205		
				SRIVAIKUNTAM ANICUT SYSTEM.						
				(1) Head Works.						
Tinnevelly ...		3. Works ...	128	Providing screw gearing shutters to the scouring sluice in Srivaikuntam anicut.	9,000	...	3,000	4,500	128	P.M.G., No. 415 I., dated 21st May 1898.
				(2) Main Canals and Branches.						
		7. Bridges ...	129	Constructing two bridges across the north main channel below Srivaikuntam anicut.	11,650	...	...	7,398	129	Estimate under preparation.
				(4) Drainages and Protective Works.						
		4. Earthwork ...	130	Forming new cross bank in the bed of the Korampallam tank.	1,110	...	...	1,110	130	P.M.G., No. 852 I., dated 22nd October 1896.
				Total, Srivaikuntam Anicut System ...	...	...	...	13,008		

GOVERNMENT

OF MADRAS.

CHARG

ES—cont.

Part

II—cont.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1899–1900—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant for 1899-1900.	Item No.	Remarks and references.
				Periyár Project.						
				(2) Main Canals and Branches.						
				I. Reach.						
Madura	...	5. Miscellaneous ...	131	Constructing a distributary and field channel from the irrigation sluice at 2 miles 2 furlongs 300 feet, main canal.	Rs. 1,550	Rs. 1,289	Rs. ...	Rs. 144	131	
		3. Masonry Works.	132	Constructing a bridge at 5 miles 1 furlong, main channel.	2,320	...	...	1,531	132	P.M.G., No. 836 I., dated 28th October 1898.
		Do.	133	Repairs to lascar's shed at Ramarajapuram ...	60	...	...	47	133	
				II. Reach.						
		Do.	134	Bridge at 8 miles 7 furlongs and 560 feet near Thathampatti.	1,540	291	...	920	134	,, ,, 872 I., ,, 24th October 1896.
				III. Reach.						
		4. Earthwork ...	135	Distributary channel from the irrigation sluice at 16 miles 6 furlongs in the main channel.	870	504	...	393	135	
				VI. Reach.						
		Do. ...	136	Distributary and field channel from the sluice at 22nd mile, main channel.	3,000	1,483	...	834	136	,, ,, 1013 I., ,, 13th November 1897.
				VIII. Reach.						
		3. Masonry Works.	137	Repairing Kallandry rest-house	44	17	...	27	137	
				XI. Reach.						
		Do.	138	Sluice in 30 miles 6 furlongs 100 feet, main channel.	5,850	518	...	3,365	138	,, ,, 1104 I., ,, 9th December 1897.
				(3) Distributaries.						
				I. Branch Channel.						
		4. Earthwork ...	139	Distributary and field channel from Thodaneri tank.	1,750	...	...	1,692	139	,, ,, 876 I., ,, 22nd January 1898.
				II. Branch Channel.						
		Do. ...	140	Excavating irrigation channel from sluice No. 3.	1,160	1,011	...	111	140	
				III. Branch Channel.						
		3. Masonry Works.	141	Constructing cross drainage works	2,430	756	...	353	141	,, ,, 842 I., ,, 20th September 1897.
		4. Earthwork ...	142	Field channel from sluice in Velangudi tank ...	1,030	...	...	831	142	,, ,, 713 I., ,, 17th September 1898.
				IV. Branch Channel.						
		Do. ...	143	Distributary to Podumboo east tank from 3 miles 7 furlongs.	1,170	1,024	...	61	143	,, ,, 887 I., ,, 28th October 1896.
		Do. ...	144	Continuing the tail end of the channel to Silayaneri tank.	2,400	...	...	1,378	144	,, ,, 207 I., ,, 28th February 1899.
		Do. ...	145	Distributary from tail end of the channel to Kovil Papagudi tank.	2,640	...	...	1,597	145	,, ,, 501 I., ,, 30th June 1898.
		Do. ...	146	Thirupalai offtake extension	4,420	...	...	2,848	146	,, ,, 284 I., ,, 18th March 1899.
				V. Branch Channel.						
		3. Masonry Works.	147	Sluice attached to No. 13th fall	330	...	...	110	147	,, ,, 51 I., ,, 23rd January 1898.
		Do.	148	Do. to No. 14th fall	610	...	...	483	148	
		Do.	149	Re-grading the channel	6,300	1,938	...	1,473	149	P.M.G., No. 385 I., dated 10th May 1898. Revised estimate is being scrutinized in the Superintending Engineer's office.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1899-1900—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant for 1899-1900.	Item No.	Remarks and references.
				Periyár Project—cont.						
				(3) Distributaries—*cont.*						
				VIII. Branch Channel.						
Madura—*cont.* ...	...	3. Masonry works.	150	Re-grading the channel	4,710	3,232	...	106	150	P.M.G., No. 1002 I., dated 12th November 1897. Revised estimate under preparation.
		4. Earthwork ...	151	Excavating a field channel from the left sluice of drop No. 1.	340	...	...	209	151	
				IX. Branch Channel.						
		3. Masonry works.	152	Improvements to Thirukkanni tank	1,260	...	...	1,115	152	P.M.G., No. 561 I., dated 22nd July 1898.
		4. Earthwork ...	153	Excavating minor distributaries	1,555	...	...	185	153	,, ,, 199 I., ,, 24th February 1899.
		Do. ...	154	Distributary channel from tail end of Chittampatti offtake.	1,050	376	...	85	154	,, ,, 389 I., ,, 11th May 1898.
		Do. ...	155	Distributary channel from left sluice of drop No. 8, Kunnathore offtake.	1,860	88	...	111	155	,, ,, 910 I., ,, 14th October 1897.
		Do. ...	156	Field channel in the Kunnathore offtake ...	1,200	102	...	183	156	,, ,, 994 I., ,, 10th November 1897.
		Do. ...	157	Excavating distributary at 1 mile 6 furlongs 580 feet, Kunnathore offtake.	1,320	...	...	103	157	,, ,, 199 I., ,, 24th February 1899.
		Do. ...	158	Tail end of Papagudi offtake and constructing masonry works.	8,790	...	...	4,580	158	,, ,, 586 I., ,, 29th July 1898.
		Do. ...	159	Distributary channel from right sluice of drop No. 1, Kunnathore offtake.	2,860	3,103	...	1,075	159	,, ,, 885 I., ,, 28th October 1896.
				X. Branch Channel (Chunnambur Offtake).						
		Do. ...	160	Distributary from 5 miles 7 furlongs	1,450	...	...	861	160	,, ,, 636 I., ,, 22nd August 1898.
		3. Masonry works.	161	Cross drainage works	1,740	...	...	583	161	,, ,, 878 I., ,, 10th November 1898.
		4. Earthwork ...	162	Distributary from 6 miles 4 furlongs 80 feet, Chunnambur offtake to Keeranur tank.	7,185	...	...	6,956	162	,, ,, 188 I., ,, 22nd February 1899.
				XI Branch Channel.						
		4. Earthwork ...	163	Excavation of the channel	24,630	8,292	...	3,558	163	,, ,, 406 I., ,, 28th April 1897.
				XII. Branch Channel.						
		4. Earthwork ...	164	No. 1 Distributary at 0 mile 4,700 feet ...	2,080	178	...	1,557	164	
		Do. ...	165	,, 2 ,, at 1 ,, 1,620 ,, ...	280	...	...	270	165	
		Do. ...	166	,, 3 ,, from the left sluice of drop No. 5 at 1 mile 1,620 feet.	2,950	12	...	979	166	,, ,, 788 I., ,, 26th August 1897.
		Do. ...	167	No. 4 Distributary from the right sluice of drop No. 6 at 2 miles 140 feet.	5,070	17	...	3,162	167	,, ,, 361 I., ,, 13th April 1897.
		Do. ...	168	No. 5 Distributary at 2 miles 1,040 feet ...	2,980	...	...	382	168	,, ,, 787 I., ,, 13th October 1898.
		Do. ...	169	,, 6 ,, at 2 ,, 1,040 ,, ...	27,400	322	...	1,874	169	,, ,, 1141 I., ,, 22nd December 1897.
		Do. ...	170	,, 7 ,, from the proposed head-sluice at 5 mile 4,100 feet.	3,220	...	...	164	170	,, ,, 361 I., ,, 13th April 1897.
		Do. ...	171	No. 8 Distributary at 7 miles 3,440 feet in the left bank.	7,600	120	...	1,964	171	,, ,, 796 I., ,, 1st September 1897.
		Do. ...	172	No. 9 Distributary	20,000	380	...	3,400	172	,, ,, 900 I., ,, 9th October 1897.
		Do. ...	173	,, 10 ,, ...	4,670	114	...	1,900	173	,, ,, 887 I., ,, 7th ,, ,,
		Do. ...	174	Nos. 11 and 11-A Distributary	8,780	193	...	6,440	174	,, ,, 586 I., ,, 29th July 1898.
				Total, Periyár Project ...	...	...	...	60,000		
				Total, 49. Capital expenditure not charged to Revenue ...	...	...	...	4,94,118		

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	25,000	...	25,000
IRRIGATION.			
42. MAJOR WORKS (WORKING EXPENSES).			
Gódávari Delta System	27,000	...	27,000
Kistna do.	27,000	...	27,000
Pennéru Anicut System	— 564	...	— 564
Sangam do.	4,618	...	4,618
Kurnool-Cuddapah Canal	3,493	...	3,493
Cauvery Delta System	22,193	...	22,193
Srívaikuntam Anicut System	1,239	...	1,239
Total ...	84,979	...	84,979
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.			
49. Irrigation.			
Gódávari Delta System	49,903	...	49,903
Kistna do.	1,89,002	...	1,89,002
Cauvery Delta System	1,82,205	...	1,82,205
Srívaikuntam Anicut	13,008	...	13,008
Periyár Project	60,000	...	60,000
Total ...	4,94,118	...	4,94,118

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 1899–1900.

Executive division.	—	Estimate, 1899-1900. Amount.	Estimate, 1899-1900. Total.	Estimate, 1898-99. Amount.	Estimate, 1898-99. Total.
	IRRIGATION.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES).				
	Rushikulya Project.				
	Head Works.				
Ganjám ...	Mahánadi section	7,000		7,000	
	Rushikulya do.	2,000		2,000	
	Do. canal	25,000		18,000	
	Mahánadi do.	6,000		8,447	
	TOTAL, RUSHIKULYA PROJECT ...	...	40,000	...	35,447
	Gódávari Delta System.				
Eastern Division.	Head works	15,000		17,600	
	Main canal	2,000		2,000	
	Bank do.	7,500		9,000	
	Cocanada canal	9,000		8,000	
	Sámalkót do.	7,000		7,000	
	Mundapetta do.	5,500		5,000	
	Coringa do.	7,000		5,000	
	Kovur-Manjair junction canal	...		...	
	Injeram canal	5,000		3,000	
	Tooliabhaga drain, 31 miles	2,500		2,000	
	Takee drain, 27 do.	1,500		1,500	
	Biccavole drain, 17 do. widening and special repairs	22,000		9,900	
	Kurada drain improvements, &c., special repairs ...	2,000		...	
			86,000		70,000
Central Division.	Main canal	8,000		3,000	
	Gunnaram canal	10,000		8,000	
	Bank canal	10,000		8,000	
	Amalápuram canal	9,000		12,000	
	Bendamurlanka canal	3,000		2,000	
	Billakurru canal	1,000		2,000	
	Drainages	29,000		10,000	
	Compensation	10,000		10,000	
			80,000		55,000
Western Division.	Main canal	7,000		5,000	
	Kakaraparu canal	3,000		2,000	
	Gostanadi and Velpur canal	9,000		9,000	
	Bank canal	7,073		6,000	
	Narsápur do.	12,000		10,000	
	Ellore do.	11,000		10,000	
	Attili do.	5,000		4,000	
	Junction do.	4,000		1,000	
	Venkiah and Weyeru canal	5,000		5,000	
	Undi canal	9,000		8,000	
	Nakkala drain, 25 miles				
	Kaza do. 16 do.				
	Mogultur do.	12,000		20,000	
	Gonter do.				
	Gostanadi do.				
	Yannamadurru drain, 32 miles				
	Compensation	...		2,000	
			84,073		82,000
	TOTAL, GODAVARI DELTA SYSTEM ...		2,50,073		2,07,000

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 1899–1900—continued.

Executive division.		Estimate, 1899–1900.		Estimate, 1898–99.	
		Amount.	Total.	Amount.	Total.
	Irrigation—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Kistna Delta System.				
	Eastern Section.				
Kistna Eastern Division.	Ellore canal	38,700		38,700	
	Masulipatam canal	31,600		31,600	
	Ryves' canal	31,000		31,500	
	Pulleru do.	25,000		28,500	
	Polraz do.	15,000		15,000	
	Bantumilli canal	15,000		15,000	
	Pamarru junction canal	750		1,000	
	Pedalanka channel	10,000		12,000	
	Head works	21,000		21,000	
	Main canal	3,000		7,200	
	Other miscellaneous works	3,950		10,000	
			1,95,000		2,11,500
	Western Section.				
Kistna Western Division.	Main canal	10,000		10,000	
	Bank do.	25,000		25,000	
	Commamur canal	35,000		35,000	
	Nizampatam do.	20,000		20,000	
	Drains	10,000		10,000	
			1,00,000		1,00,000
	TOTAL, KISTNA DELTA SYSTEM ...		2,95,000		3,11,500
	Pennéru Anicut System.				
Nellore Division.	Head works	3,000		5,000	
	Main canal	1,000		2,000	
	Jaffer Sahib's canal	2,500		2,500	
	Sarvapalle do.	3,000		1,500	
	Kistnapatam do.	2,000		3,000	
	Delta tanks and reservoirs	8,733		9,111	
	Total ...	20,233		23,111	
	Deduct old maintenance charges ...	* 13,860		* 13,860	
			6,373		9,251
	NET TOTAL, PENNERU ANICUT SYSTEM ...	...	6,373	...	9,251

* These sums are provided in the budget estimates for Minor Works and Navigation for 1899–1900.

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 1899–1900—cont.

Executive division.		Estimate, 1899–1900.		Estimate, 1898–99.	
		Amount.	Total.	Amount.	Total.
	Irrigation—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Sangam Anicut System.				
Nellore Division—*cont.*	Head works	3,000		3,000	
	Kanigiri canal	20,000		20,000	
	Duvur do.	2,000		2,000	
	Total ...	25,000		25,000	
	Deduct old maintenance charges ...	* 11,884		* 11,884	
			13,116		13,116
	NET TOTAL, SANGAM ANICUT SYSTEM ...	...	13,116	...	13,116
	Kurnool-Cuddapah Canal.				
Kurnool Division.	Annual maintenance—				
	Head works	1,310		1,200	
	First section	7,950		5,800	
	Second do.	2,990		2,900	
	Third do.	5,770		5,500	
	Fourth do.	5,500		6,400	
	Fifth do.	5,000		5,300	
	Sixth do.	8,000		11,300	
	Distributaries	12,000		11,700	
	Drainages and Protective Works	200		900	
	Special Repairs	12,000		5,244	
	Reserve	1,080		1,000	
			61,800		57,244
	TOTAL, KURNOOL-CUDDAPAH CANAL ...	...	61,800	...	57,244
Salem Division.	Barur Tank Project	1,114	1,114	1,090	1,090
	Cauvery Delta System.				
Tanjore Division.	Upper Coleroon anicut	3,450		2,500	
	Grand anicut	3,500		3,500	
	Cauvery	12,250		6,300	
	Kodumurti and Puthaur	1,200		1,300	
	Arasillár	1,450		1,450	
	Trimulrajen	1,200		2,000	
	Mudicondanar	1,650		1,700	
	Nattar	750		500	
	Keerthemanar	...		200	
	Veerasholen	1,000		900	
	Solasudamaniar	...		700	
	Munjalaur	500		910	
	Vellapar	200		800	
	Vanjeaur	500		300	
	South Puthar	200		200	
	Vennár	4,450		2,500	
	Vettár	4,150		2,590	
	Odemboghy	...		100	
	Nundalar	900		1,500	

* These sums are provided in the budget estimates for Minor Works and Navigation for 1899–1900.

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 1899–1900—cont.

Executive division.		Estimate, 1899-1900.		Estimate, 1898-99.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Cauvery Delta System—continued.				
Tanjore Division—*cont.*	Vicramanar	600		1,050	
	Kona voikal	...		600	
	Pudumaniar	1,400		1,700	
	Ooppanaur	1,600		1,000	
	Vadavaur	500		500	
	Munneyar	1,900		2,300	
	Noolar	100		1,000	
	Shollanar	150		200	
	Palavar	1,900		2,500	
	Iyavianar	300		1,600	
	Mainkarainar	200		1,400	
	Thirunagari channel	700		200	
	Ambanar	600		200	
	Kadalayar	100		900	
	Chittar	800		400	
	Thenkorayar	400		200	
	Pravadynar	...		100	
	Puthaur	1,400		200	
	Perambur tank	...		4,002	
			50,000		50,000
Negapatam Division.	Vennáur	1,000		1,000	
	Vettáur	1,000		1,000	
	Odemboghyar	1,500		1,500	
	Corayaur	2,000		2,000	
	Pamanayaur	2,500		2,500	
	Pandavyaur	1,000		1,000	
	Vellayaur	1,500		1,500	
	Athiveeraramanar	1,500		1,500	
	Harichendranady	800		800	
	Mullayaur	2,000		2,000	
	Iyanar	200		200	
	Drainage and protective works	2,500		2,500	
	Unforeseen and incomplete works	15,500		15,886	
			33,000		33,386
Trichinopoly Division.	Annual maintenance—				
	Punguni channel	900		900	
	Peruvalai do.	1,150		1,150	
	Iyen do.	1,200		1,200	
	Special Repairs—				
	Punguni channel	1,030		1,030	
	Peruvalai do.	1,750		1,750	
	Iyen do.	2,100		2,100	
	Compensation	270		370	
			8,400		8,500
	Total ...	...	91,400	...	91,886
	Deduct old maintenance charges ...	...	*1,05,634	...	*1,05,634
	NET TOTAL, CAUVERY DELTA SYSTEM ..	...	— 14,234	...	— 13,784

* These sums are provided in the budget estimates for Minor Works and Navigation for 1899–1900.

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 1899–1900—continued.

Executive division.		Estimate, 1899-1900.		Estimate, 1898-99.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Srivaikuntam Anicut System.				
Tinnevelly Division.	Head works	1,000		1,000	
	North main channel	1,000		2,500	
	Tanks fed by the above channel	6,000		6,672	
	South main channel	1,000		1,500	
	Tanks fed by the above channel	6,000		7,000	
			15,000		18,672
	Deduct old maintenance charges ...	...	*5,208	...	*5,208
	NET TOTAL, SRIVAIKUNTAM ANICUT SYSTEM ...	...	9,792	...	13,464
	Periyár Project.				
Madura Division.	Main canal	10,000		12,000	
	Branch channels	20,000		17,000	
			30,000		29,000

* These sums are provided in the budget estimates for Minor Works and Navigation for 1899–1900.

General Abstract of the Grants provided for above.

	In India.	In England.	Total.
	Rs.	Rs.	Rs.
IMPERIAL.			
Major Works.			
42. IRRIGATION (WORKING EXPENSES).			
Rushikulya Project	40,000	...	40,000
Gódávari Delta System	2,50,073	...	2,50,073
Kistna do. do.	2,95,000	...	2,95,000
Pennéru Anicut do.	6,373	...	6,373
Sangam Anicut Project	13,116	...	13,116
Kurnool-Cuddapah Canal	61,800	...	61,800
Barur Tank Project	1,114	...	1,114
Cauvery Delta System	— 14,234	...	— 14,234
Srívaikuntam Anicut System	9,792	...	9,792
Periyár Project	30,000	...	30,000
Total ...	6,93,034	...	6,93,034

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1899–1900.

	Budget Estimate, 1899–1900.	Revised Estimate, 1898–99.
	Rs.	Rs.
IMPERIAL.		
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works	25,000	55,284
Deduct item for which no charge for Establishment is admissible.		
Compensation for land	...	...
Net Grant ...	25,000	55,284
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	5,750	12,716
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs	7,78,013	7,01,178
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Gódávari Delta System	12,000	12,000
Do. do. Kistna do.	1,000	1,000
Do. do. Cauvery do.	270	370
Total ...	13,270	13,370
Net Grant ...	7,64,743	6,87,808
A. 23 per cent. on the Net Grant	1,75,891	1,58,195
Direct Revenue	2,85,000	3,00,000
Deduct estimated net collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,15,900	1,33,900
Net Direct Revenue ...	1,69,100	1,66,100
B. 10 per cent. on Net Direct Revenue	16,910	16,610
Irrigation Revenue from Major (Productive) Works exclusive of enhanced share of Land Revenue	69,44,510	67,02,203
Add estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,22,000	1,40,947
Total ...	70,66,510	68,43,150

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 1899–1900—continued.

	Budget Estimate, 1899–1900.	Revised Estimate, 1898–99.
	Rs.	Rs.
C. 6 per cent. on Irrigation Revenue	4,23,991	4,10,589
Total, A + B + C ...	6,16,792	5,85,394
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	4,94,118	4,31,168
Deduct item for which no charge for Establishment is admissible.		
Land compensation	45,830	22,335
Net Grant ...	4,48,288	4,08,833
Contribution to Provincial Funds at 23 per cent. on Net Grant ...	1,03,106	94,032

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A.

Distribution of the Provision for Establishment by System of Canals for the year 1899–1900.

—	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.	Percentage.	Estimated Revenue.	Percentage.	Estimated Revenue.	Percentage.	
Imperial.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.							
35. Construction of Protective Irrigation Works.							
Rushikulya Project	25,000	5,750	...	...	...	...	5,750
Irrigation.							
42. MAJOR WORKS (WORKING EXPENSES).							
Gódávari Delta System	2,65,073	60,967	99,000	9,900	31,01,000	1,86,060	2,56,927
Kistna do.	3,21,000	73,830	55,000	5,500	22,89,000	1,37,340	2,16,670
Pennéru Anicut System	5,809	1,336	400	40	1,47,000	8,820	10,196
Sangam Anicut Project	17,734	4,079	800	80	2,01,900	12,114	16,273
Kurnool-Cuddapah Canal	65,293	15,017	7,700	770	1,22,000	7,320	23,107
Barur Tank Project	1,114	256	...	...	10,500	630	886
Cauvery Delta System	7,689	1,769	3,200	320	8,55,600	51,336	53,425
Srivaikuntam Anicut System ...	11,031	2,537	1,500	150	1,06,000	6,360	9,047
Periyár Project	30,000	6,900	...	...	2,33,510	14,011	20,911
Rushikulya Project	40,000	9,200	1,500	150	...	...	9,350
Total ..	7,64,743	1,75,891	1,69,100	16,910	70,66,510	4,23,991	6,16,792
Capital Expenditure not charged to Revenue.							
49. IRRIGATION.							
Gódávari Delta System	43,903	10,097	...	...	...	...	10,097
Kistna Delta System	1,49,172	34,310	...	...	...	...	34,310
Cauvery Delta System	1,82,205	41,907	...	...	...	...	41,907
Srivaikuntam Anicut	13,008	2,992	...	...	...	...	2,992
Periyár Project	60,000	13,800	...	...	...	...	13,800
Total ..	4,48,288	1,03,106	...	...	...	...	1,03,106
GRAND TOTAL ..							

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 1899–1900.

—	Budget Estimate, 1899–1900.	Budget Estimate, 1897–98.
Imperial.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Tools and Plant required for the Rushikulya Project	250	600
Irrigation.		
42. MAJOR WORKS (WORKING EXPENSES).		
Godavari Delta System.		
Eastern Division.		
8. Repairs and carriage—		
Maintenance of floating plant including existing ferries	20,500	18,450
Special repairs to do. do. do.	5,000	5,000
Charges on account of steamers used by Public Works officers on duty ...	4,500	5,000
Machinery	2,000	2,000
Total ..	32,000	30,450
Central Division.		
8. Repairs and carriage, repairs to floating plant, tools and machinery	3,000	3,000
Western Division.		
2. Plant and machinery	2,000	2,000
8. Repairs and carriage—		
Repairs to floating plant	3,000	3,000
Tools		
Machinery		
Total ..	5,000	5,000
TOTAL, GODAVARI DELTA SYSTEM ..	40,000	38,450
Kistna Delta System.		
Eastern Division.		
8. Repairs and carriage—		
Annual maintenance of ferry boats	5,500	6,000
Special repairs to ferry boats	...	1,000
Repairs and conveyance of tools, &c.	...	500
1. Scientific instruments	300	300
2. Tools—New supply	600	1,000
Navigation Plant—		
2. Punts for maintaining two Cockburn's dredgers	...	23,815
8. Repairs and carriage—		
Annual repairs of floating plant	25,000	29,900
Special repairs of do.	7,000	8,600
Repairs to machinery	1,000	1,000
Charges on account of steamer used by Public Works officers	1,200	600
Repairs and carriage of tools and plant	1,730	500
Total ..	42,330	73,215
Western Division.		
Repairs and carriage—		
Annual maintenance of floating plant	5,000	5,000
Repairs and conveyance of tools, &c.		
Total ..	5,000	5,000
TOTAL, KISTNA DELTA SYSTEM ..	47,330	78,215

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 1899–1900—cont.

—	Budget Estimate, 1899–1900.	Budget Estimate, 1898–99.
	Rs.	Rs.
IRRIGATION—continued.		
42. MAJOR WORKS (WORKING EXPENSES)—continued.		
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	50
Deduct old maintenance charges	* 57	* 57
NET TOTAL, SANGAM ANICUT SYSTEM ..	— 7	— 7
Kurnool-Cuddapah Canal.		
1. Scientific and mathematical instruments	300	300
8. Repairs and carriage—		
Annual maintenance of floating plant	1,000	1,000
Miscellaneous and sundries	300	300
TOTAL, KURNOOL CANAL ..	1,600	1,600
Cauvery Delta.		
Tanjore division—		
New supplies	...	...
8. Repairs and carriage	1,000	200
Total ...	1,000	200
Negapatam division—		
3. Tools—		
New supplies	100	100
8. Repairs and carriage	100	100
Total ...	200	200
Trichinopoly—		
8. Repairs and carriage	19	20
TOTAL, CAUVERY DELTA SYSTEM ..	1,219	420
Deduct old maintenance charges ...	* 1,603	* 1,603
NET TOTAL, CAUVERY DELTA SYSTEM ..	— 384	1,183
Srivaikuntam Anicut System—		
8. Repairs and carriage	...	...
Deduct old maintenance charges ...	* 78	* 78
NET TOTAL, SRIVAIKUNTAM ANICUT SYSTEM ..	— 78	— 78
Periyár project—		
8. Repairs and carriage	1,089	...
Rushikulya project system—		
8. Repairs and carriage	650	1,250
TOTAL, 42. MAJOR WORKS (WORKING EXPENSES) ..	90,195	1,18,242

* These sums are provided in the budget estimates for Minor Works and Navigation for 1899–1900.

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 1899–1900—cont.

—	Budget Estimate, 1899–1900.	Budget Estimate, 1898–99.
	Rs.	Rs.
IRRIGATION—continued.		
42. MAJOR WORKS (WORKING EXPENSES)—continued.		
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Gódávari Delta System.		
Eastern division—		
3. Tools	...	300
Kistna Delta System.		
Eastern division—		
4. Navigation plant—		
Ferry ballacuts	...	2,000
16. Subordinate staff boats	...	...
A new staff boat for officers	...	3,000
12. Dinghies	...	4,100
Western division—		
4. Navigation plant—		
Ferry ballacuts	...	2,000
Constructing No. 1 stern wheel steamer	} ...	...
Do. „ 2 do.		
16. Subordinate staff boats	...	...
A new staff boats for officers	...	...
12. Dinghies	...	...
Western division—		
4. Navigation plant—		
Ferry ballacuts	1,688	...
TOTAL, KISTNA DELTA SYSTEM ..	1,688	22,300
Cauvery Delta System.		
3. Tools—Tanjore division	888	...
Periyár Project.		
3. Tools—Madura division	200	560
TOTAL, CAPITAL ACCOUNT ..	2,776	23,160

IRRIGATION—MAJOR WORKS.

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 1899–1900—Nil.

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

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION—MINOR WORKS AND NAVIGATION

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1899-1900.

MADRAS,
2nd May 1899.

(Signed) W. HUGHES,
Joint Secretary to Government, 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 1899 to 31st March 1900.

	Actual Realizations, 1897–98.	Budget Estimate, 1898–99.	Revised Estimate, 1898–99.	Budget Estimate, 1899–1900.
	Rs.	Rs.	Rs.	Rs.
PROVINCIAL.				
IRRIGATION AND NAVIGATION WORKS.				
Works for which Capital and Revenue Accounts are kept.				
Ganjám Minor Rivers System	230	300	300	300
Dondapad Tank Project	...	...	...	10
Cumbum Tank System	1	...	...	...
Chembrambakam Tank System	55	100	100	100
Madras Water-supply and Irrigation Extension	16,542	18,400	18,400	17,500
Valluru Anicut System	...	40	40	20
Pálár Anicut System	2,131	1,600	1,600	1,700
Poiney Anicut System	416	300	300	300
Cheyáru Anicut System	286	300	300	300
Tirukkóyilúr Anicut System	566	420	360	360
Mehamattur Anicut System	27	50	30	30
Vriddhachalam Anicut System	232	50	300	300
Shatiatope Anicut System	358	300	600	600
Pelandorai Anicut System	323	250	1,000	1,000
Lower Coleroon Anicut System	982	1,630	810	700
Thadapalli Channel System	157	80	200	200
Arkenkotta Channel System	35	20	100	100
Kalingaroyen Channel System	626	...	1,400	1,200
Nandyar Channel Extension	90	100	100	100
Maradur Anicut System	384	60	60	180
Buckingham Canal	99,492	1,14,000	1,14,000	1,07,000
Védáranniyam Canal	872	1,000	1,000	1,000
Total ...	1,23,805	1,39,000	1,41,000	1,33,000
Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	7,462	9,000	7,000	7,000
AGRICULTURAL WORKS.				
Works for which neither Capital nor Revenue Accounts are kept ...	42,476	24,000	37,000	38,000
TOTAL ...	1,73,743	1,72,000	1,85,000	1,78,000

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 1899 to 31st March 1900.

	Reference to Detailed Estimate.	Actual Outlay, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
PROVINCIAL.					
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	PAGES.	RS.	RS.	RS.	RS.
CAPITAL.					
1. Works ... In progress ... ... 2,61,116; Not commenced ... 87,239	10 to 19	3,77,874	3,55,276	3,41,043	3,48,355
2. Establishment	29	92,327	78,724	77,290	76,345
3. Tools and Plant	31	— 6,073	1,000	250	1,000
Receipts on capital account	...	— 111	...	...	...
Total, Capital ...	...	4,64,017	4,35,000	4,18,583	4,25,700
REVENUE.					
1. Extensions and Improvements. In progress ... ... Not commenced 25,881	18 to 21	17,567	29,241	34,959	25,881
2. Maintenance and Repairs	26 & 27	1,92,620	2,08,430	2,24,567	2,15,359
3. Establishment	29	59,593	68,564	73,791	68,785
4. Tools and Plant	31	3,049	1,875	1,575	1,975
Refunds of Revenue	...	98	...	...	...
Total, Revenue ...	...	2,72,927	3,08,110	3,34,892	3,12,000
Total, Minor Works for which Capital and Revenue Accounts are kept	...	7,36,944	7,43,110	7,53,475	7,37,700
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works— Major ... In progress ... ... 49,500; Not commenced ... 39,534	20 to 23	1,38,146	82,480	1,29,227	89,034
Minor	22 & 23	97,467	1,65,788	1,46,695	1,75,543
2. Repairs	27	7,46,877	8,60,719	8,27,412	8,56,487
3. Establishment	29	5,58,448	5,04,699	5,03,940	5,04,804
4. Tools and Plant	31	19,644	16,204	16,076	16,282
Refunds of Revenue	...	84	...	...	...
Total, Minor Works for which neither Capital nor Revenue Accounts are kept	...	15,60,666	16,29,890	16,23,350	16,42,150
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works— Major ... In progress ... ... 13,276; Not commenced ... 1,06,749	22 & 23	1,14,228	71,572	1,50,322	1,20,025
Minor	22 & 23	9,947	10,300	11,060	10,400
2. Repairs	27	3,40,909	4,05,225	3,18,790	3,50,736
3. Establishment	30	1,02,081	1,12,615	1,12,300	1,11,937
4. Tools and Plant	31	6,466	7,188	7,703	7,952
Refunds of Revenue	...	291	...	...	...
Total, Agricultural Works ...	...	5,73,922	6,07,000	6,00,175	6,00,150
Total, Provincial ...	...	28,71,532	29,80,000	29,77,000	29,80,000

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 1899 to 31st March 1900—continued.

	Reference to Detailed Estimate.	Actual Outlay, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.	PAGES.	RS.	RS.	RS.	RS.
Works ... In progress ... ... 3,23,892; Not commenced 4,45,346	10 to 25	7,55,229	7,14,657	8,13,306	7,69,238
Repairs	26 & 27	12,80,406	14,74,474	13,70,769	14,22,582
Establishment	28 to 30	8,12,449	7,64,602	7,67,321	7,61,871
Tools and Plant	31	23,086	26,267	25,604	26,309
Refunds of Revenue	...	473	...	...	...
Receipts on capital account	...	— 111	...	...	...
Total, Provincial		28,71,532	29,80,000	29,77,000	29,80,000
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	22 & 23	2,479	3,000	5,600	6,000
II. Repairs	27	3,988	2,000	3,400	3,000
Total		6,467	5,000	9,000	9,000

PROVINCIAL—MINOR WORKS AND NAVIGATION.

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 1899–1900, *arranged by Projects and Objects of Work.*

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99 (Revised Estimate).	Budget Estimate, 1899–1900.	Remarks and References.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which Capital and Revenue Accounts are kept.						
CAPITAL ACCOUNT.						
Projects in Progress.						
Sangam Anicut System ...	2,08,000	...	85,000	21,354	49,200	P.M.G., No. 407 I., dated 9th May 1896.
Ganjám Minor Rivers System ...	78,876	43,360	22,000	36,900	28,000	P.M.G., No. 522 I., dated 22nd June 1896; No. 107 I., dated 5th February 1898; No. 90 I., dated 1st February 1898; No. 114 I., dated 10th February 1898; No. 215 I., dated 15th March 1898; No. 246 I., dated 21st March 1898; No. 278 I., dated 31st March 1898; Memo. No. 13 G.N., dated 16th April 1898; No. 14 G.N., dated 10th May 1898; P.M.G., No. 392 I., dated 12th May 1898 and No. 407 I., dated 20th May 1898. Estimates for other works are under preparation.
Munnyeru Project	6,04,000	4,49,378	1,11,700	50,680	61,500	P.M.G., No. 518 I., dated 8th July 1898.
Chopaud Project	3,65,000	91,366	41,160	2,040	35,980	P.M.G., No. 344 I., dated 8th April 1897. Revised estimate is under preparation.
Pálár Anicut System	19,73,913	19,66,622	9,700	6,127	600	P.M.G., No. 917 I., dated 15th October 1897.
Poiney do.	2,30,034	2,25,624	...	...	4,500	P.M.G., No. 548 I., dated 20th July 1898.
Cheyáru do.	3,94,407	3,94,407	...	...	6,150	Estimate is under preparation.
Lower Coleroon Anicut System.	13,62,016	7,86,329	87,000	1,48,537	1,80,920	P.M.G., No. 835 I., dated 8th October 1892; No. 960 I., dated 6th November 1893; No. 372 I., dated 5th May 1894; No. 181 I., dated 25th Feb. 1895; No. 273 I., dated 21st March 1896; No. 535 I., dated 25th June 1896; No. 555 I., dated 3rd July 1896; No. 338 I., dated 5th April 1897; No. 383 I., dated 21st April 1897; No. 557 I., dated 15th June 1897; No. 720 I., dated 3rd August 1897; No. 799 I., dated 1st September 1897; No. 426 I., dated 30th May 1898; No. 516 I., dated 7th July 1898; No. 611 I., dated 18th August 1898; No. 619 I., dated 12th August 1898; No. 807 I., dated 17th October 1898 and No. 872 I., dated 5th November 1898. Estimate for another work is under preparation.
Thadapalli Channel System ...	1,14,680	1,16,122	...	...	9,840	P.M.G., No. 182 I., dated 19th February 1896. Estimate for another work is under preparation.
Arkenkotta do. ...	1,00,388	1,00,338	...	...	3,690	Estimate is under preparation.
Kalingaroyen do. ...	81,970	62,061	...	...	12,300	P.M.G., No. 649 I., dated 13th July 1897, and No. 752 I., dated 30th September 1898.

PROVINCIAL—MINOR WORKS AND NAVIGATION.

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 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99. (Revised Estimate).	Budget Estimate, 1899–1900.	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.						
CAPITAL ACCOUNT—*continued.*						
Projects in Progress—continued.						
Shatiatope Anicut System ...	2,24,379	1,64,666	36,900	59,627	5,800	P.M.G., No. 690 I., dated 8th September 1898.
Pelandorai Anicut System ...	5,51,624	5,07,219	6,150	35,447	2,100	P.M.G., No. 378 I., dated 9th May 1894; No. 1088 I., dated 18th December 1895 and No. 91 I., dated 20th January 1899.
Nandyar Channel Extension ...	53,490	53,490	...	...	3,000	Estimate is under preparation.
Buckingham Canal	85,30,777	84,55,825	17,990	17,990	17,600	P.M.G., No. 403 I., dated 20th May 1898; No. 434 I., dated 3rd June 1898; No. 913 I., dated 24th November 1898; No. 936 I., dated 30th November 1898 and No. 282 I., dated 18th March 1899.
Barur Tank System	2,700	...	...	...	4,520	P.M.G., No. 136 I., dated 6th February 1896, and No. 459 I., dated 28th May 1896. Estimate for another work is under preparation.
Other works	...	...	...	39,881	...	
Total, Capital ..	...	...	...	4,18,583	4,25,700	

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 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99 (Revised Estimate).	Budget Estimate, 1899–1900.	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 ACCOUNT.						
Ganjám Minor Rivers System ...	...	...	30,780	22,170	24,630	
Dondapad Tank System ...	...	...	860	209	370	
Munyeru Project	...	...	...	4,920	6,150	
Sagiléru Project	...	...	7,380	7,380	7,380	
Cumbum Tank System ...	...	...	2,460	1,353	2,460	
Chembrambakam Tank System.	...	...	**—3,000**	**—270**	**—3,020**	
Madras Water-supply and Irrigation Extension.	...	...	850	9,958	750	
Valluru Anicut System ...	...	...	1,220	1,220	620	
Pálár Anicut System	...	...	38,200	35,843	44,950	
Poiney do.	...	...	13,560	9,870	13,560	
Cheyáru do.	...	...	18,480	18,480	17,250	
Tirukkóyilúr Anicut System ...	...	...	16,000	18,454	14,490	
Mehamattur do. ...	...	...	3,920	3,918	3,450	
Vriddhachalam Anicut System...	...	...	6,380	3,945	4,460	
Shatiatope Anicut System ...	...	...	13,000	8,110	10,640	
Pelandorai do. ...	...	...	10,350	10,425	8,930	
Lower Coleroon Anicut System.	...	...	23,700	22,303	24,840	
Thadapalli Channel System ...	...	...	7,150	13,312	9,860	
Arkenkotta do. ...	...	...	3,690	6,773	5,540	
Kalingaroyen do. ...	...	...	4,680	10,355	7,500	
Nandyar Channel Extension ...	...	...	6,160	6,160	6,160	
Maradur Anicut System ...	...	...	17,230	17,263	17,240	
Chilka Lake Canal	...	...	610	610	600	
Buckingham Canal	...	...	81,050	98,731	79,740	
Védáranniyam Canal	...	...	3,400	3,400	3,450	
Total, Revenue Account ..	...	...	3,08,110	3,34,892	3,12,000	
Total, Minor Works for which Capital and Revenue Accounts are kept.	...	...	7,43,110	7,53,475	7,37,700	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
Old maintenance charges ...	...	...	4,39,074	4,40,478	4,38,183	
Ordinary Minor Works ...	...	...	7,42,266	7,72,737	7,83,967	
Tank Restoration Works—						
Execution	...	...	4,13,550	3,42,776	3,85,000	
Minor Works, Revenue Department.	...	...	35,000	67,359	35,000	
Total ...	...	...	16,29,890	16,23,350	16,42,150	
Total, Irrigation and Navigation Works.	...	...	23,73,000	23,76,825	23,79,850	

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 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99 (Revised Estimate).	Budget Estimate, 1899–1900.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Raising the Vasista Gódávari right bank from head to Chinchinada.	72,800	64,924	4,602	4,602	3,276	P.M.G., No. 56 I., dated 19th January 1893.
Raising and strengthening the right bank of the Kistna river from head to terminus.	1,72,500	...	...	...	50,000	P.M.G., No. 73 I., dated 12th January 1899.
Athur diversion, Tambrapurni right bank below Srívaikuntam anicut.	17,100	...	...	5,000	10,000	P.M.G., No. 931 I., dated 2nd December 1898.
Works not commenced.						
Raising the Kistna river left flood bank from 35 to 44 miles.	...	...	...	...	25,000	Estimate is under preparation.
Raising the Kistna river left flood bank from 1 to 13 miles.	...	...	...	...	6,949	Do. do.
Constructing groyne between Venkatapalem lanka and the right margin of the Kistna river and excavating a channel between Venkatapalem and Vandavalli lankas above anicut.	...	...	...	...	24,800	Do. do.
Total, Major Original Works ...	...	...	...	...	1,20,025	
Minor Original Works	...	...	...	...	10,400	
Repairs	...	...	...	...	3,50,736	
Establishment	...	...	...	...	1,11,937	
Tools and Plant	...	...	...	...	7,052	
Total, Agricultural Works ...	...	...	...	...	6,00,150	
Total, Provincial ...	...	...	...	...	29,80,000	
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	...	...	5,000	9,000	9,000	
Total ...	...	...	5,000	9,000	9,000	

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1899–1900.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897–98.	Outlay: Probable during 1898–99.	Grant, 1899–1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				SANGAM ANICUT SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				4. *Drainages and Protective Works.*						
Nellore	...	4. Earthwork ...	1	Diversion of the surplus of the Kanigiri reservoir into the Pyderu.	1,68,900	...	18,143	40,000	1	P.M.G., No. 407 I., dated 9th May 1896.
				BARUR TANK PROJECT.						
				OPEN CAPITAL ACCOUNT.						
				(2) *Main Canals and Branches.*						
Salem ...	...	3. Masonry works.	2	Constructing a securing sluice in the right bank of Barur supply channel.	1,500	...	...	1,500	2	P.M.G., No. 136 I., dated 6th February 1896 and No. 459 I., dated 22nd May 1896.
		6. Earthwork ...	3	Excavating a channel from the Barur supply channel to the river.	680	...	...	680	3	
		5. Buildings ...	4	Inspection shed at Nedingal	1,500	...	...	1,495	4	Estimate is under preparation.
				Total, Barur Tank Project ...	...	...	...	3,675		
				GANJAM MINOR RIVERS SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				2. *Main Canals and Branches.*						
				Wadada Channel.						
Ganjám	...	3. Regulators ...	5	Extension of Regulator No. 32 of Wadada channel at Timmarazuwari batti head.	290	...	...	285	5	
		8. Escapes ...	6	Improvements to Pandikatam surplus weir ...	1,370	...	...	1,370	6	
				Purushottapur Channel.						
		2. Land	7	Compensation for land	500	...	...	500	7	
		8. Escapes ...	8	Excavating surplus channel	1,140	...	...	1,140	8	
		Do. ...	9	Constructing scouring sluice in the left bank of the Purushottapur channel at the 1st mile below the head sluice.	2,500	...	...	2,500	9	P.M.G., No. 278 I., dated 31st March 1898.
		12. Earthwork ...	10	Proposed diversion of the Purushottapur channel at its head.	...	...	...	2,650	10	Estimate is under preparation.
		15. Miscellaneous.	11	Demarcation stones	10	...	...	10	11	
				Bhairi Channel.						
		7. Bridges ...	12	Reconstructing the culvert on Chintada road item No. 13 across the main channel.	1,220	...	...	1,220	12	
				Nagarikatakam Channel.						
		3. Regulators ...	13	Regulator below the head of Kasirivada Batte item No. 7.	570	...	...	570	13	
		Do. ...	14	Regulator below the head of Buditi Batte ...	630	...	...	630	14	
				Jalamur Channel.						
		12. Earthwork ...	15	Protecting the left bank of the Vamsadara river at the head of Jalamur channel.	2,500	...	...	2,500	15	

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1899-1900—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant, 1899-1900.	Item No.	Remarks and references.
				GANJAM MINOR RIVERS SYSTEM—*cont.*						
				OPEN CAPITAL ACCOUNT—*cont.*						
				2. *Main Canals and Branches*—cont.						
				Polaki Channel.						
Ganjám—*cont.*	...	8. Escapes ...	16	Surplus weir in the right bank of Polaki channel at Ampalam village limits.	Rs.	Rs.	Rs.	Rs.		
		15. Miscellaneous...	17	Protecting the nose at the head of Polaki channel.	...	...	...	1,000	16	Estimate is under preparation.
				Gareebulagedda Channel.	1,200	...	...	1,200	17	
		8. Escapes ...	18	Flush escape in the right bank of the channel at 3,180 feet above the bed of Malabanda tank supply channel.	130	...	...	130	18	
				3. *Distributaries.*						
				Dusi Channel.						
		3. Works	19	Constructing surplus weir at head of Burudugedda in Karlakota limits.	830	...	...	830	19	
		Do.	20	Regulator across Burudugedda	...	...	...	600	20	Estimate is under preparation.
				Bhairi Channel.						
		3. Works	21	Constructing a new surplus weir to Alli tank ...	440	...	...	440	21	
		Do.	22	Constructing a new masonry dam across Pallivalasa branch channel.	150	...	...	150	22	
				Jalamur Channel.						
		3. Works	23	Surplus weir at Nookolamma at the tail end of Singinadham branch.	...	...	...	800	23	Estimate is under preparation.
				Polaki Channel.						
		3. Works	24	Surplus weir to Mahadevabanda tank of Polaki village.	340	...	...	340	24	
		Do.	25	Constructing a stoneware pipe sluice to Mahadevabanda tank of Polaki village.	100	...	...	100	25	
				Gareebulagedda Channel.						
		3. Works	26	Improvements to Jayakrishnasagaram tank of Lakkivalasa.	440	...	...	440	26	
		Do.	27	Improvements to Ramasagaram tank of Kollipadu.	340	...	...	340	27	
		Do.	28	Improvements to Malabanda tank of Godalam ...	540	...	...	540	28	
		Do.	29	Constructing a surplus weir to Pedda tank of Borubhadra.	780	...	...	780	29	
		Do.	30	Improvements to Pedda tank of Kolupadu ...	470	...	...	470	30	
		Do.	31	Head sluice at the head of Borubhadra tank supply channel.	...	...	...	273	31	Estimate is under preparation.
				Mobagam Channel.						
		3. Works	32	Surplus weir at Manchalakalam of Madupam Meraka Batte.	1,050	...	...	1,050	32	
				Total, Ganjám Minor Rivers System ...	...	...	...	22,858		

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1899–1900—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897–98.	Outlay: Probable during 1898–99.	Grant, 1899–1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				MUNNYERU PROJECT.						
				CAPITAL ACCOUNT.						
				(1) *Head Works.*						
Kistna Northern.	...	3. Works	33	Anicut and under sluices	45,750	44,891	77	300	33	P.M.G. No. 518 I., dated 8th July 1898.
			34	Extending anicut	...	...	...	18,000	34	Estimate is under preparation.
		6. Maintenance ...	35	Forming sand bank across spills on the right side of the anicut.	2,130	660	993	470	35	P.M.G., No. 518 I., dated 8th July 1898.
				2. *Main Canals and Branches.*						
	...	2. Land	36	Compensation for land	10,000	...	5,300	4,500	36	
		3. Regulators ...	37	Head sluice	10,900	9,327	143	150	37	
		Do. ...	38	Regulator at 11th mile	2,630	1,930	97	50	38	
		5. River and hill torrent works.	39	Inlets and outlets	5,400	...	426	250	39	
		6. Other cross drainage works.	40	Under tunnel at 23/3	2,880	550	3,019	800	40	
		Do. ...	41	Do. at 25/3	3,080	...	2,757	1,400	41	
					1,330	...	268	1,000	42	
		7. Bridges ...	42	Bridge at 23/6	...	...	...	200	43	Estimate is under preparation.
		11. Buildings ...	43	Buildings	1,92,000	1,53,083	10,572	8,500	44	
		12. Earthwork ...	44	Earthwork	6,850	6,716	13	140	45	
		14. Tanks and reservoirs.	45	Reservoirs	2,520	1,247	489	700	46	P.M.G., No. 518 I., dated 8th July 1898.
		15. Miscellaneous.	46	Miscellaneous						
				3. *Distributaries.*						
		3. Works ...	47	Sluices, drops and masonry works	36,400	6,690	10,404	5,000	47	
		4. Earthwork ...	48	Excavating branch channels	45,405	27,720	6,141	7,500	48	
		5. Miscellaneous ...	49	Miscellaneous	2,000	3	525	1,068	49	
				Total, Munnyeru Project ...	...	...	...	50,028		
				CHOPAUD PROJECT.						
				CAPITAL ACCOUNT.						
				2. *Main Canals and Branches.*						
Cuddapah ...	...	2. Land ...	50	Compensation for land	...	...		4,000	50	
		3. Regulators	51	Head scouring sluices	...	...		3,000	51	
			52	Scouring sluices at 0 6 330	...	...		500	52	
		6. Other cross drainage works.	53	Syphon at 0 6 570	...	...		1,000	53	
		.....	54	Do. at 15 1 530	...	...		1,000	54	
		.....	55	Do. at 15 5 204	...	...		500	55	Revised estimate is under preparation.
		.....	56	Do. at 16 3 290	...	...	1,658	500	56	
		.....	57	Do. at 17 1 550	...	...		500	57	
		.....	58	Do. at 18 2 70	...	...		500	58	
		7. Bridges	59	Bridge at 15 4 420	...	...		1,000	59	
			60	Do. at 16 4 620	...	...		1,000	60	
			61	Do. at 18 3 312	...	...		500	61	
		12. Earthwork ...	62	Excavating channel	...	...		16,000	62	
				Total, Chopaud Project ...	...	...	...	30,000		

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1899-1900—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant for 1899-1900.	Item No.	Remarks and references.
				OPEN CAPITAL ACCOUNT.	Rs.	Rs.	Rs.	Rs.		
				THADAPALLI CHANNEL SYSTEM.						
				2. *Main Canals and Branches.*						
Coimbatore—*cont.*	...	3. Regulators ...	63	Resluicing Thadapalli Main and branch channels.	...	...	...	8,000	63	Estimates are under preparation.
				ARKENKOTA CHANNEL SYSTEM.						
				2. *Main Canals and Branches.*						
		3. Regulators ...	64	Resluicing Arkenkota channel	...	...	...	3,000	64	
				KALINGAROYEN CHANNEL SYSTEM.						
				2. *Main Canals and Branches.*						
		3. Regulator ...	65	Resluicing Kalingareyan channel	14,500	2,700	...	10,000	65	P.M.G., No. 752 I., dated 30th September 1898.
				PALAR ANICUT SYSTEM.						
				3. *Distributaries.*						
North Arcot ...	...	3. Works ...	66	Constructing an under tunnel in the proposed channel from Tennel to Nelvoy tank.	1,390	...	1,000	488	66	P.M.G., No. 917 I., dated 15th October 1897.
				POINEY ANICUT SYSTEM.						
				(2) *Main Canals and Branches.*						
		7. Bridges ...	67	Constructing an Inspection bungalow and outhouses in Mel Venkatapuram.	3,650	...	...	3,658	67	P.M.G., No. 548 I., dated 20th July 1898.
				CHEYARU ANICUT SYSTEM.						
				2. *Main Canals and Branches.*						
				Syyathuvanum Project.						
		4. Earthwork ...	68	Cutting and embanking channel from Cheyaru Main Channel to Seyyathuvanum tank.	13,000	...	...	5,000	68	Estimate is under preparation.
				LOWER COLEROON ANICUT SYSTEM.						
				CAPITAL ACCOUNT.						
				1. *Works.*						
				2. Main Canals and Branches.						
				Improvements to Khan Saib's Canal.						
South Arcot ...	...	4. Earthwork ...	69	Widening the Khan Saib's canal	9,600	9,990	...	4,610	69	P.M.G., No. 835 I., dated 8th October 1892.
				4. *Drainage and Protective Works.*						
				Old Coleroon Drain.						
		4. Earthwork ...	70	Clearing, widening and forming banks	89,600	11,548	16,780	30,346	70	P.M.G., No. 835 I., dated 8th October 1892.
		2. Land ...	71	Compensation for land	32,782	25,331	...	7,421	71	P.M.G., No. 807 I., dated 17th October 1898.
		5. Miscellaneous ...	72	Demarcation stones	1,620	...	...	600	72	P.M.G., No. 619 I., dated 16th August 1898.

Detail of the Budget Estimate for Original Works under Irri, ation

Minor Works in the Madras Presidency for the year 1899–1900—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897–98.	Outlay: Probable during 1898–99.	Grant, 1899–1900.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				4. *Drainage and Protective Works*—cont.						
				Old Coleroon Drain—*cont.*						
South Arcot—*cont.*	...	4. Earthwork ...	73	Excavating approach channel from Kopady weir No. 2 to the new aqueduct.	12,700	...	...	5,500	73	
Tanjore	...	3. Works ...	74	Improvements to the Lower Coleroon anicut ...	3,14,100	...	50,030	1,00,000	74	P.M.G., No. 516 I., dated 7th July 1898.
				Total, Lower Coleroon Anicut System ...	...	...	...	1,48,477		
				SHATIATOPE ANICUT SYSTEM.						
				Open Capital Account.						
				(1) *Head Works.*						
South Arcot ...	...	3. Works ...	75	Constructing apron in front of Shatiatope anicut...	71,800	23,323	43,783	4,716	75	P.M.G., No. 690 I., dated 8th September 1898.
				PELANDORAI ANICUT SYSTEM.						
				(1) *Head Works.*						
		3. Works ...	76	Lowering the crest of Pelandorai anicut and fitting it with 6 feet girder shutters counter-weighted and with suitable gearing.	1,02,400	74,181	26,500	1,707	76	P.M.G., No. 91 I., dated 20th January 1899.
				Buckingham Canal.						
				(2) *Main Canals and Branches.*						
Chingleput ...	...	6. Other cross drainage works.	77	Constructing an outlet sluice of 20 vents at 89th mile.	12,200	...	...	9,700	77	P.M.G., No. 913 I., dated 24th November 1893.
			78	Constructing a masonry weir across the Ganga-patam back-water.	14,600	...	...	4,609	78	Estimate is under preparation.
				Total, Buckingham canal ...	...	...	...	14,309		
				Nandyar Channel Extension.						
				(2) *Main Canals and Branches.*						
Trichinopoly ...	...	12. Earthwork ...	79	Nandiyar extension channel improving	2,450	...	...	2,439	79	
				Total, Capital Account ...	...	...	...	3,48,355		
				Revenue Account.						
				Extensions and Improvements.						
Kurnool	...	.....	80	Cumbum tank system	...	...	...	500	80	
Coimbatore ...	...	.....	81	Thadapalli channel system	...	...	807	3,000	81	
			82	Arkenkota do.	..	...	198	996	82	
			83	Kalingaroyen do.	...	...	500	1,000	83	
North Arcot ...	...	.....	84	Poinery anicut system	...	...	2,000	2,000	84	
			85	Cheyaru do.	...	...	2,500	2,000	85	
			86	Pálár do.	...	...	6,905	9,997	86	
				Deduct old maintenance charges ...	...	...	178	178		
				Net ...	...	...	6,727	9,819		

Detail of the Budget Estimate for Original Works under Irrigation Minor Works in the Madras Presidency for the year 18

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant, 1899-1900.	Item No.	Remarks.
					Rs.	Rs.	Rs.	Rs.		
				Revenue Account—*cont.*						
				Extensions and Improvements—cont.						
Chingleput ...	...	.....	87	Pálár anicut system	...	...	968	1,500	87	
				Total, Pálár Anicut System ...	...	...	7,695	11,319		
			88	Chembrambakam tank system	...	...	...	...	88	
				Deduct old maintenance charges ...	...	...	2,283	2,283		
				Net ...	...	...	— 2,283	— 2,283		
			89	Madras water-supply and irrigation extension ...	...	...	4,000	...	89	
				Deduct old maintenance charges ...	...	...	3,600	3,600		
				Net ...	...	...	400	— 3,600		
South Arcot ...	...	.....	90	Tirukkoyilúr anicut system	...	...	5,610	3,300	90	
			91	Mehamattur do.	...	...	593	702	91	
			92	Vriddhachalam do.	...	...	1,033	802	92	
			93	Pelandorai do.	...	...	2,383	1,998	93	
				Deduct old maintenance charges ...	...	...	59	59		
				Net ...	...	...	2,324	1,939		
			94	Lower Coleroon anicut system	...	...	3,500	2,200	94	
Tanjore ...	...	.....	95	Do. do.	...	...	250	500	95	
				Total, Lower Coleroon Anicut System ...	...	...	3,750	2,700		
Tinnevelly ...	...	.....	96	Maradur anicut system	...	...	1,030	1,002	96	
Chingleput ...	...	.....	97	Buckingham Canal	...	...	1,000	504	97	
				Total, Extensions and Improvements ...	...	...	...	25,881		
				Minor Works for which neither Capital nor Revenue Accounts are kept, P. W. D.						
				Ordinary Major Original Works.						
Kistna Northern.	...	.....	98	Ipur tank	31,000	14,178	10,200	11,000	98	P.M.G., No. 1031 I., dated 23rd November 1893.
			99	Jonapad tank	26,630	12,965	9,500	5,000	99	,, ,, 148 I. ,, 16th February 1895.
			100	Rampur channel improvements	30,160	24,721	4,000	2,000	100	,, ,, 607 I. ,, 11th August 1898.
Bellary	...	.....	101	Yaprol and Kollical tank supply channel ...	11,800	1,008	...	5,000	101	,, ,, 194 I. ,, 24th February 1897.
			102	Roya channel.—Excavating a supply sluice to —.	...	2,163	2,000	3,000	102	Estimate is under preparation.
			103	Thoortha channel.—Constructing a surplus sluice to —.	10,200	...	8,800	1,000	103	P.M.G., No. 675 I., dated 6th September 1898.
			104	Thoortha channel.—Compensation for land taken up for cross Bank and head sluice of —.	2,880	...	...	2,880	104	,, ,, 918 I. ,, 29th November ,,
			105	Improvements to the bund of supply channel from the Penneru river to Hindupur tank.	3,890	...	3,000	1,000	105	,, ,, 1024 I. ,, 2nd December 1896.

CHARGES—cont.

Part II—cont.

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1899-1900—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1897-98.	Outlay: Probable during 1898-99.	Grant, 1899-1900.	Item No.	Remarks and references.
				Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.—cont.						
				Ordinary Major Original Works—*cont.*						
			106	Kunnunokula yerracheruvu tank.—Improving the tank with its supply channel and head work.	Rs. 6,780	...	3,000	4,000	106	P.M.G., No. 592 I., dated 29th June 1897.
			107	Siruguppa channel improvements	19,040	...	...	6,824	107	,, ,, 148 I. ,, 10th February 1899.
Cuddapah ...	...	.....	108	Chintagunta tank improvements	35,000	...	10,000	15,000	108	,, ,, 721 I. ,, 3rd August 1897.
			109	Peddupusupula channel improvements	20,100	...	...	10,000	109	,, ,, 314 I. ,, 23rd March ,,
			110	Muddanur tank do.	7,760	2,000	...	2,500	110	,, ,, 17 I. ,, 15th January ,,
			111	Lingala tank do.	12,600	...	...	5,000	111	,, ,, 257 I. ,, 15th March 1897.
			112	Resluicing Karatholuvu channel	...	...	...	3,000	112	Estimates are under preparation.
Coimbatore ...	...	.....	113	Do. Kadathur channel	...	...	...	3,000	113	
Madura	...	.....	114	Restoring and improving the Pudu anicut across the Manjalar river.	4,380	...	...	3,830	114	P.M.G., No. 33 I., dated 5th January 1899.
Tinnevelly ...	...	.....	115	Improving Singampatty Perungal channel ...	...	...	...	5,000	115	Estimate is under prepartion.
				Total, Major Original Works ...	...	...	...	89,034		
			116	Minor original works	...	...	...	(a) 1,37,050	116	
			117	Old maintenance charges for works for which Capital and Revenue Accounts are kept.	...	...	...	(a) 10,381	117	
			118	Minor Works, Revenue Department, Minor original work.	...	...	...	28,112		
				Total, Minor Original Works ...	...	...	...	1,75,543		
				Agricultural Works.						
				Major Original Works.						
Gódávari Western	...	.....	119	Raising the Vasista Gódávari right bank from head to Chinchinada.	72,800	64,924	4,600	3,276	118	P.M.G., No. 56 I., dated 19th January 1893.
Kistna Eastern ...	...	.....	120	Raising the Kistna river left flood bank from 35 to 44 miles.	...	...	...	25,000	119	Estimate is under preparation.
			121	Raising the Kistna river left flood bank from 1 to 13 miles.	...	...	...	6,949	120	Do. do.
			122	Constructing groyne between Venkatapalem lanka and the right margin of the Kistna river and excavating a channel between Venkatapalem and Vandavalli lankahs above anicut.	...	...	...	24,800	121	Do. do.
Kistna Western...	...	.....	123	Raising and strengthening the right bank of the Kistna river from head to terminus.	1,72,500	...	...	50,000	122	P.M.G., No. 73 I., dated 12th January 1899.
Tinnevelly ...	...	.....	124	Authur diversion.—Tambrapurni right bank below Srivaikuntam anicut.	17,100	...	5,000	(b) 10,000	123	,, ,, 931 I. ,, 2nd December 1899.
				Total ...	...	...	...	1,20,025		
			125	Minor original works	...	...	...	10,400		
				Total, Agricultural Works ...	...	...	...	1,30,425		
				Grand Total, Original Works ...	...	...	...	7,69,238		
				LOCAL IRRIGATION CESS FUND.						
				43. Minor Works and Navigation.						
				Minor Works for which neither Capital nor Revenue Accounts are kept.						
Salem	...	.....	126	Minor original works	...	...	...	6,000	124	

(a) For details—*vide* schedule A, page 33.

(b) For details—*vide* schedule A, page 34.

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 ACCOUNT.			
Sangam Anicut System	...	40,000	40,000
Barur Tank System	...	3,675	3,675
Ganjám Minor Rivers System	...	22,858	22,858
Munnyeru Project	...	50,028	50,028
Chopaud Project	...	30,000	30,000
Thadapalli Channel System	...	8,000	8,000
Arkenkota do. do.	...	3,000	3,000
Kalingarayen do. do.	...	10,000	10,000
Pálár Anicut System	...	488	488
Poiney do.	...	3,658	3,658
Cheyaru do.	...	5,000	5,000
Shatiatope do.	...	4,716	4,716
Pelandorai do.	...	1,707	1,707
Lower Coleroon Anicut System	...	1,48,477	1,48,477
Nandyar Channel	...	2,439	2,439
Buckingham Canal	...	14,309	14,309
Total (*a*)	...	3,48,355	3,48,355
REVENUE ACCOUNT.			
Cumbum Tank System	...	500	500
Thadapalli Channel System	...	3,000	3,000
Arkenkotta do.	...	996	996
Kalingaroyan do.	...	1,000	1,000
Pálár Anicut System	...	11,319	11,319
Poiney do.	...	2,000	2,000
Cheyáru do.	...	2,000	2,000
Chembrambakam Tank	...	— 2,283	— 2,283
Madras Water-supply and Irrigation Extension	...	— 3,600	— 3,600
Tirukkóyilúr Anicut System	...	3,300	3,300
Mehamattur do.	...	702	702
Vriddhachalam do.	...	802	802
Shatiatope do.	...	...	...
Pelandorai do.	...	1,939	1,939
Lower Coleroon do.	...	2,700	2,700
Marudur Anicut System	...	1,002	1,002
Buckingham Canal	...	504	504
Total (*b*)	...	25,881	25,881
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept, P.W.D.—			
Major	...	89,034	89,034
Minor	...	1,37,050	1,37,050
Old Maintenance charges for works for which Capital and Revenue Accounts are kept	...	10,381	10,381
"Minor Works, Revenue Department," Minor Original Works	...	28,112	28,112
Total (*c*)	...	2,64,577	2,64,577

GOVERNMENT OF MADRAS

...NCY.

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	...	1,20,025	1,20,025
Minor works	...	10,400	10,400
Total (*d*)	...	1,30,425	1,30,425
Grand Total (*a* + *b* + *c* + *d*)	...	7,69,238	7,69,238
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	6,000	...	6,000
Total	6,000	...	6,000

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 1899–1900.

Executive division.	—	Estimate, 1899–1900. Amount.	Estimate, 1899–1900. Total.	Estimate, 1898–99. Amount.	Estimate, 1898–99. 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	20,000	20,000	25,000	25,000
Kistna Northern.	Dondapad tank	300	300	699	699
Do. ...	Munnyeru project	5,000	5,000	...	...
Cuddapah ...	Sagiléru Project	6,000	6,000	6,000	6,000
Kurnool ...	Cumbum Tank System	1,500	1,500	1,500	1,500
Coimbatore ...	Thadapalli Channel System	5,000	5,000	3,800	3,800
Do. ...	Arkenkotta Channel System	3,500	3,500	2,000	2,000
Do. ...	Kalingaroyen Channel System	5,000	5,000	2,805	2,805
North Arcot ...	Pálár Anicut System—				
	Head Works				
	Kávéripak Channel				
	Govindavádi Channel				
	Mahendravadi Channel				
	Dusi channel	20,000		20,000	
	Tennampettu Channel				
	Chuckramallur Channel				
	Reserve for incomplete works				
Chingleput ...	Kambakal Channel	8,000		9,228	
	Total ...	28,000		29,228	
	Deduct Old Maintenance Charges ...	* 2,909		* 2,909	
			25,091		26,319
North Arcot ...	Poiney Anicut System	9,000	9,000	9,000	9,000
Do. ...	Cheyáru Anicut System	12,000	12,000	12,000	12,000
Chingleput ...	Chembrambakam Tank System	3,005		3,021	
	Deduct Old Maintenance Charges ...	* 3,097		* 3,097	
			— 92		— 76
Do. ...	Madras Water-supply and Irrigation Extension...	2,995		3,003	
	Deduct Old Maintenance Charges ...	* 200		* 200	
			2,795		2,803
Do. ...	Vallur Anicut System	503	503	989	989
South Arcot ...	Shatiatope Anicut System	8,602	8,602	9,000	9,000
Do. ...	Pelandorai Anicut System	5,300		4,730	
	Deduct Old Maintenance Charges ...	* 58		* 58	
			5,242		4,672

* 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 1899–1900—continued.

Executive division.	—	Estimate, 1899–1900. Amount.	Estimate, 1899–1900. Total.	Estimate, 1898–99. Amount.	Estimate, 1898–99. 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 ...	Vriddhachalam Anicut System	2,800	2,800	1,650	1,650
Do. ...	Mehamattur Anicut System	2,100	2,100	2,090	2,090
Do. ...	Tirukkóyilúr Anicut System	8,450	8,450	7,364	7,364
Do.	Lower Coleroon Anicut System	13,438		11,636	
Tanjore ...	Do. do.	4,000	17,438	4,000	15,636
Trichinopoly ...	Nandiar channel	5,000	5,000	5,000	5,000
Tinnevelly ...	Maradur Anicut System	13,000	13,000	13,000	13,000
Ganjám ...	Chilka Lake Canal	488	488	496	496
Negapatam ...	Védáranniyam Canal	2,642	2,642	2,683	2,683
Chingleput ...	Buckingham Canal—				
	262 miles	35,370		35,370	
	M. Maintenance establishment	6,000		6,000	
	Repairs to masonry works	7,000		7,000	
	Unforeseen and sundry items	4,030		4,030	
	Payment to the Madras Municipality being the amount of lease for Trevelyan wharf ...	1,600		1,600	
			54,000		54,000
	Total ...	...	2,15,359	...	2,08,430
	Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D., Ordinary works	(*a*) 4,04,400		3,85,700	
	Old Maintenance charges	(*b*) 1,42,850		1,42,850	
	Tank Restoration works to be executed by ordinary divisions	(*c*) 3,09,237	8,56,487	3,62,169	8,60,719
	Agricultural Works—				
	Repairs	(*d*) 3,50,736	3,50,736	4,05,325	4,05,325
	Total, Maintenance and Repairs ...	...	14,22,582	...	14,74,474
	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	3,000	3,000	2,000	2,000
	Total ...	...	3,000	...	2,000

(*a*) and (*b*) For details—*vide* schedule A, page 33.

(*c*) and (*d*) For details—*vide* schedule A, page 34.

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1899–1900.

Particulars.	Budget estimate for 1899–1900.	Revised Estimate for 1898–99.
	Rs.	Rs.
IRRIGATION.		
43. Minor Works and Navigation.		
PROVINCIAL.		
Grant for works and repairs	21,91,820	21,84,075
Deduct item on which no charge for establishment is admissible—		
Grant for land compensation	34,301	15,880
Net Grant for Works and Repairs ...	21,57,519	21,68,195
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	4,96,230	4,98,685
Estimate of Direct Revenue	1,78,000	1,85,000
B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	17,800	18,500
Revenue due to old Irrigation under Major Productive Works	41,30,690	41,68,940
C. Share of the Public Works establishment at 6 per cent. on Revenue	2,47,841	2,50,136
Total, A + B + C ...	7,61,871	7,67,321
Total, Establishment Charges ...	7,61,871	7,67,321

For details of A, B, and C—*vide* pages 29 and 30, columns 3, 5, and 7 respectively.

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A.

Detail of estimated charges for establishment by systems of canals for 1899–1900.

—	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.		
1	2	3	4	5	6	7	8	9
IRRIGATION.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION.								
Provincial.								
Minor Works for which Capital and Revenue Accounts are kept.								
Capital.								
Sangam Anicut System	40,000	9,200	...	...	...	...	...	9,200
Barur Tank System	3,675	845	...	...	...	...	...	845
Ganjám Minor Rivers System ...	22,358	5,142	...	...	...	...	...	5,142
Munnyeru Project	45,528	10,472	...	...	...	...	...	10,472
Chopaud Project	26,000	5,980	...	...	...	...	...	5,980
Thadapalli Channel System	8,000	1,840	...	...	...	...	...	1,840
Arkenkotta do.	3,000	690	...	...	...	...	...	690
Kalingaroyen do.	10,000	2,300	...	...	...	...	...	2,300
Pálár Anicut System	488	112	...	...	...	...	...	112
Poiney do.	3,658	842	...	...	...	...	...	842
Cheyáru do.	5,000	1,150	...	...	...	...	...	1,150
Shatiatope do.	4,716	1,084	...	...	...	...	...	1,084
Pelandorai do.	1,707	393	...	...	...	...	...	393
Lower Coleroon Anicut System ...	1,41,056	32,443	...	...	...	...	...	32,443
Nandiyar Channel Extension... ...	2,439	561	...	...	...	...	...	561
Buckingham Canal	14,309	3,291	...	...	...	...	...	3,291
Total ...	3,31,934	76,345	...	...	...	...	...	76,345
Revenue.								
Ganjám Minor Rivers System ...	20,000	4,600	300	30	...	...	...	4,630
Dondapad Tank	300	69	10	1	...	...	...	70
Munnyeru Project	5,000	1,150	...	...	...	...	...	1,150
Sagiléru Project	6,000	1,380	...	...	...	...	...	1,380
Cumbum Tank System	2,000	460	..	...	...	...	...	460
Thadapalli Channel System	8,000	1,840	200	20	...	...	...	1,860
Arkenkotta do.	4,496	1,034	100	10	...	...	...	1,044
Kalingaroyen do.	6,000	1,380	1,200	120	...	...	...	1,500
Pálár Anicut System	36,410	8,374	1,700	170	...	...	...	8,544
Poiney do.	11,000	2,530	300	30	...	...	...	2,560
Cheyáru do.	14,000	3,220	300	30	...	...	...	3,250
Chembrambakam Tank System ...	**—2,375**	**— 546**	100	10	...	...	...	**— 536**
Madras Water-supply and Irrigation Extension	**— 805**	**— 185**	17,500	1,750	...	...	...	1,565
Vallur Anicut System	503	115	20	2	...	...	...	117
Tirukkóyilúr do.	11,750	2,704	360	36	...	...	...	2,740
Mehamattur do.	2,802	645	30	3	..	...	...	648
Vriddháchalam do.	3,602	828	300	30	...	...	...	858
Shatiatope do.	8,602	1,978	600	60	...	...	...	2,038
Pelandorai do.	7,181	1,651	1,000	100	...	...	...	1,751
Lower Coleroon do.	20,138	4,632	700	70	...	...	...	4,702
Nundiyar Channel Extension ...	5,000	1,150	100	10	...	...	...	1,160
Maradur Anicut System	14,002	3,220	180	18	...	...	...	3,238
Chilka Lake Canal	488	112	...	...	...	...	...	112
Buckingham do.	54,504	12,536	1,07,000	10,700	...	...	...	23,236
Védáranniyam Canal	2,642	608	1,000	100	...	...	...	708
Total ...	2,41,240	55,485	1,33,000	13,300	...	...	...	68,785

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A—continued.

Detail of estimated charges for establishment by systems of canals for 1899–1900—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.		
1	2	3	4	5	6	7	8	9
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	6,23,604	1,43,429	7,000	700	...	...	...	1,44,129
Tank Restoration Works	3,09,237	71,125	...	...	...	...	...	71,125
Old Maintenance charges	1,53,231	35,243	...	...	41,30,690	2,47,841	...	2,83,084
Minor Works, Revenue Department...	28,112	6,466	...	...	...	...	...	6,466
Total ...	11,14,184	2,56,263	7,000	700	41,30,690	2,47,841	...	5,04,804
Agricultural Works.								
Works for which neither Capital nor Revenue Accounts are kept ...	4,70,161	1,08,137	38,000	3,800	...	...	...	1,11,937
Total, Provincial ...	21,57,519	4,96,230	1,78,000	17,800	41,30,690	2,47,841	...	7,61,871

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 1899–1900.

—	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.				
Munnyeru project	1,000	...	1,000	...
Total ...	1,000	...	1,000	...
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	2,000	...	2,000	...
Vedaranniyam do.	100	...	100	...
Total ...	1,975		1,975	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.				
Ordinary Works	...	9,354	9,354	6,23,614
Tank Restoration works	...	4,638	4,638	3,09,237
Old Maintenance charges	1,868	...	1,868	1,53,231
Minor Works, Revenue Department	...	422	422	28,112
Total ...	1,868	14,414	16,282	11,14,184
Agricultural Works.				
Works for which neither Capital nor Revenue Accounts are kept	...	7,052	7,052	4,70,161
Total, Minor Works for which neither Capital nor Revenue Accounts are kept and Agricultural Works ...	1,868	21,466	23,334	15,84,345
Total, Provincial ..	4,843	21,466	26,309	...

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 1899–1900—Nil.

All Suspenses 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 1899–1900.

	Irrigation Revenue for 1897–98.	Minor Original Works (under Rs. 2,500 each). 1899–1900.	Repairs. 1899–1900.
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 do.	...	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	80,825	10,000	15,500
Vizagapatam	1,62,960	9,000	20,000
Gódávari Eastern	99,659	6,000	13,000
Do. Western		4,000	12,000
Kistna Eastern	34,354	2,500	2,000
Do. Northern		1,500	8,000
Nellore	2,17,157	3,000	22,500
Cuddapah	2,67,060	10,000	30,000
Kurnool	78,471	3,000	10,000
Bellary	4,21,590	4,000	40,000
West Coast	...	...	2,000
Coimbatore	3,27,210	7,000	20,000
Salem	1,49,390	3,000	15,000
North Arcot	2,10,214	6,000	25,000
Chingleput	4,46,696	16,500	42,300
South Arcot	3,55,158	11,000	43,600
Tanjore	45,412	700	1,500
Negapatam		200	2,000
Trichinopoly	4,33,106	8,000	25,000
Madura	2,19,670	3,000	15,000
Tinnevelly	7,82,000	6,000	40,000
Total ...	...	1,14,400	4,04,400
Reserve ...	...	22,650	...
Grand Total ...	...	1,37,050	4,04,400
Minor Works, Revenue Department, Reserve	...	28,112	...

GOVERNMENT OF MADRAS.

CHARGES.

Schedule A—Showing the distribution of the grants for Minor Original Works and Repairs for 1899–1900—continued.

	Irrigation Revenue for 1897-98.	Minor Original Works (under Rs. 2,500 each).	Repairs.
		1899–1900.	1899–1900.
	Rs.	Rs.	Rs.
Tank Restoration Works.			
Execution—			
Divisions—			
Gódávari Eastern	...	...	1,000
Kistna Northern	...	...	4,237
Nellore	...	...	45,000
Bellary	...	...	15,000
Salem	...	...	25,000
North Arcot	...	...	35,000
South do.	...	...	14,000
Chingleput	...	...	50,000
Negapatam	...	...	10,000
Madura	...	...	50,000
Tinnevelly	...	...	60,000
Total	...	...	3,09,237
Agricultural Works.			
Divisions—			
Ganjám	...	3,000	6,000
Vizagapatam	...	300	2,500
Gódávari Eastern	...	...	40,000
Do. Central	...	2,000	40,000
Do. Western	...	1,000	9,000
Kistna Eastern	...	...	20,000
Do. Northern	...	...	200
Do. Western	...	...	1,00,000
Nellore	...	...	6,000
Cuddapah	...	...	4,000
Coimbatore	...	...	5,000
Salem	...	...	936
Chingleput	...	...	9,000
South Arcot	...	...	6,900
Tanjore	...	1,600	58,200
Negapatam	...	500	10,000
Trichinopoly	...	2,000	30,000
Tinnevelly	...	...	3,000
Total	...	10,400	3,50,736

H.E. the Governor

Special

P

Final Issue of Irrign Budget for 1899-1900.

Issue 29/7/99

Flagged A

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Note by the Chief Engineer for Irrigation dt 8-9-99.

The accompanying final issue of the budget estimates of the Irrigation branch for 1899-1900, which has been prepared to work up to the following grants, approved by the Govt of India, in its orders dt No. 7 A. I, dated B.O. 20th March 1899, printed in P. M. G. No 319. I. dated 29th March 1899, is submitted to Government:—

35. Construction of Protective works, Irrigation— Rs.
Imperial – 31,300

42. Major works (working Expenses) Imperial. 15,25,000.

43. Minor works & Navigation—
Provincial 29,80,000
Incorporated Local . . . 900

49. Capital Expenditure not charged to Revenue — Imperial. 6,00,000. Rs.

Imperial

2. The distribution of the grants under "35 Protective works, Irrigation", "42 Major works, (working Expenses)," and "49 Capital Expenditure not charged to Revenue" shown in the Preliminary budget estimates has been adhered to.

Provincial

3. The grant provided in the preliminary issue of the budget estimates for the Chopand project, on Capital account, has been reduced ~~from Rs. 36,900 to Rs. 35,980, the difference being the charge~~ for establishment on the sum of Rs. 4,000 not required under ~~works but provided~~ with reference to ~~for land~~ in the schedule forwarded by the Supg: Engineer, III circle, with his No. 1428. J. dated 12th April 1889. The Supg: Engineer

× Flagged B

should expedite the submission of the revised estimate for this project called for in G.O. No. 1064. J, dated 29th November 1897.

4. The preliminary grant for the Lower Coleroon Anicut system, Capital account, has been reduced by Rs. 880, as being the usual percentage charge ~~chiefly~~ to provision having for establishment to ~~been made for land com-~~ not required on the amount ~~pensation~~ form the amount provided in the Sub Engrs ~~provided for establishment~~ schedule for land compensation. ~~in the preliminary estimate of the budget.~~

× Flagged C

5. Allotments of Rs. 5,800 and Rs. 2,100 for the Shadiatope and Palaudorai anicut systems, respectively, on Capital account, have been provided by reducing the reserve, the Supg: Engineer, 5th Circle, having in his endorsement No. 159. E. J. dated 14th April 1899, represented that the amount

× Flagged D

are required for the completion
the undermentioned
of sanctioned improvements
~~to the two works~~ which
were not completed during
1898-99, as anticipated.

6. The Supg: Engineer, 5th Circle,
having, in his No. 65 E. dt.
dated 16th February 1899, applied
for a grant for the Buckingham
canal, on Capital account,
for the execution of two works, for one
of which, viz "Constructing an outlet sluice of twenty vents at
~~and as a sanctioned~~
~~work~~, Rs. 17,600 have been
appropriated from the reserve
to meet the demands.)
The estimate for the unsanction-
-ed work, which was returned
to the Supg: Engineer, and
for which an allotment of
Rs 4,608 has been provided,
should be resubmitted
as early as possible with
the information called for
in this office No. V/4 B.C.I dated
3rd February 1899, in view to the
~~to~~ being submitted for
the sanctioned of Government.

89 "mile on the Buckingham
Canal", an estimate
amtg to Rs 15,020 was
sanctioned in G.O. No. 913,
424 Nov 95.

Shaliatope Anicut System —
1. Constructing an apron in
front of —
Pelandorai Anicut System —
1. lowering the crest of the
anicut & fitting it with 6 ft
girder shutters counterweighted
& with suitable gearing.

× Hagg's E

× Constructing a
masonry weir across
the Gangapatam
Backwater.

× Flazed F

Fifteen Copies to Simla
and the remainder
to Calcutta.

E. I. Form No. 1 (a)—500—21-4-98.

1889.

7.

7. In his endorsement
No. 1362. I, dated 6th April 1899,
the Supg: Engineer, 4th Circle,
applied for a grant of
Rs. 2,800 for the ~~payment of~~
~~compensation~~ ~~for land~~ in the Bellary
for which an estimate was sanctioned in G.O. No. 918,
division, as the land com-
-pensation was not paid
by the Revenue Department
in 1898-99, although necessary
funds were provided in
that year. This amount
has also been appropriated
from the reserve.

Order thereon No: 395 I 22-5-99

The final issue of the
Irrigation budget estimates
for 1899-1900 as drawn up
by the Chief Engineer for
Irrigation is approved, and
fifty× printed copies
thereof, will be forwarded

5.

~~Land compensation for the~~
~~Thoorthu channel cross~~
~~bank and head sluice~~

~~Capital and Revenue~~
~~accounts are kept Pard.~~
~~Mar original book.~~

1st of Jan

The reserve under "43" after
meeting the demands in paras
5, 6 and 7. is Rs. 20,389.

to the Government of India.

2. From the remarks in Part I of the budget estimates it is observed that funds have been provided for several major & minor works in anticipation of sanction to the estimates. Should there be no probability that the estimates for any of these works will be submitted for sanction in sufficient time to admit of the grants provided being fully utilized, the Supdg Engrs concerned will arrange, at an early date, for utilizing the funds available on other sanctioned works in their Circles.

Endorsement
No: 3962 dy 2-5-99.
Forwarded, accordingly.

WH
24/4/99 I.

1 CV 26/4/99 To the Chief Engineer for Irrigation
" —— do —— do — I.Rs.
" Supdg: Engineers.
" Supdg: Engr on Special duty Lawrey Completion estimates, Jaypur.
" Examiner Pol Accounts
" Revenue Department
" Financial — do —

WH 24/4/99

24/4/99.

180

Public Works (1899) Department.

CURRENT No. 3500

Special

From The Chief Engr for Irrgn

Order

No. 892.

Dated 24. april 99.
Received 3. 5. 99
Registered 3
Enclosures 2 ~~Final issue of Budget Estes.~~
Spare copies.

SUBJECT.

Final Issue of the Budget Estimate of the Irrigation Branch for 1899-1900 — Note on omitting with remarks, the —

Reg. after 5 Nov 7/5/99

CSI

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

IMPERIAL—MAJOR WORKS. MADRAS PRESIDENCY.

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION—MAJOR WORKS

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1899-1900.

[Signed] W. Stephen.

Joint Secretary to Government, P.W.D.,
Irrigation Branch.

MADRAS,
~~April~~ 1899.
2nd May

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DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
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„ IV.—Detail of Estimate for Establishment	9 & 10
„ VI.—Detail of Estimate of Suspense Balances	11

GOVERNMENT OF MADRAS.

REVENUE.

Abstract Budget Estimate of Revenue expected from Irrigation—Major Works in the Madras Presidency for the year from 1st April 1899 to 31st March 1900.

	Actual Realizations, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
IMPERIAL.				
MAJOR WORKS (DIRECT RECEIPTS). (PRODUCTIVE.)				
Gódávari Delta System, Collections in the Public Works Department.	96,447	1,12,000	99,000	99,000
Kistna Delta System do. do.	45,228	45,600	53,000	55,000
Pennéru Anicut System do. do.	376	400	400	400
Sangam Anicut System do. do.	1,311	600	800	800
Cauvery Delta System do. do.	3,347	3,100	3,300	3,200
Srívaikuntam Anicut System do. do.	1,975	1,300	1,450	1,500
Periyár Project do. do.	684	"	"	"
Kurnool-Cuddapah Canal. — Collections in the Revenue Department ...	1,43,269	1,20,000	1,40,947	1,22,000
Kurnool-Cuddapah Canal. — *Deduct* Collection Charges	7,163	6,000	7,047	6,100
Kurnool-Cuddapah Canal. — Net Collections in the Revenue Department ...	1,36,106	1,14,000	1,33,900	1,15,900
Kurnool-Cuddapah Canal. — Collections in the Public Works Department...	6,156	9,500	6,650	7,700
Total ...	1,42,262	1,23,500	1,40,550	1,23,600
(PROTECTIVE.)				
Rushikulya Project, Collections in the Public Works Department...	784	1,500	1,500	1,500
Total ...	2,92,414	2,88,000	3,00,000	2,85,000

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, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Gódávari Delta—				
Irrigation Revenue	30,37,567	30,25,000	30,25,000	32,25,000
Deduct Revenue due to old Irrigation	1,24,000	1,24,000	1,24,000	1,24,000
Revenue due to the System	29,13,567	29,01,000	29,01,000	31,01,000
Share of enhanced Land Revenue	1,49,188	1,54,000	1,54,500	1,54,500
Total ...	30,62,755	30,55,000	30,55,500	32,55,500
Deduct Collection Charges in the Civil Department	1,53,203	1,52,750	1,52,775	1,63,000
Net Revenue ...	29,09,552	29,02,250	29,02,725	30,92,500
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	1,304	1,750	1,275	1,500
Total ...	29,10,856	29,04,000	29,04,000	30,94,000
Kistna Delta—				
Irrigation Revenue	23,57,209	22,29,000	23,50,000	23,60,000
Deduct Revenue due to old Irrigation	71,000	71,000	71,000	71,000
Revenue due to the System	22,86,209	21,58,000	22,79,000	22,89,000
Share of enhanced Land Revenue	1,34,250	1,39,500	1,39,400	1,39,400
Total ...	24,20,459	22,97,500	24,18,400	24,28,400
Deduct Collection Charges in the Civil Department	1,21,488	1,14,875	1,20,920	1,21,800
Net Revenue ...	22,98,971	21,82,625	22,97,480	23,06,600
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	9,296	9,375	10,520	10,400
Total ...	23,08,267	21,92,000	23,08,000	23,17,000
Pennéru Anicut—				
Irrigation Revenue	2,60,297	2,64,000	2,64,000	2,64,000
Deduct Revenue due to old Irrigation	1,17,000	1,17,000	1,17,000	1,17,000
Revenue due to the System	1,43,297	1,47,000	1,47,000	1,47,000
Share of enhanced Land Revenue	20,363	21,000	21,000	21,000
Total ...	1,63,660	1,68,000	1,68,000	1,68,000
Deduct Collection Charges in the Civil Department	8,211	8,550	8,400	8,400
Net Revenue ...	1,55,449	1,59,450	1,59,600	1,59,600
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	561	550	400	400
Total ...	1,56,010	1,60,000	1,60,000	1,60,000

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, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
IRRIGATION—*continued.*	Rs.	Rs.	Rs.	Rs.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Sangam Anicut—				
Irrigation Revenue	3,01,814	3,17,000	3,32,593	3,40,900
Deduct Revenue due to old Irrigation	1,39,000	1,39,000	1,39,000	1,39,000
Revenue due to the System	1,62,814	1,78,000	1,93,593	2,01,900
Share of enhanced Land Revenue	16,034	15,593	19,015	22,015
Total	1,78,848	1,93,593	2,12,608	2,23,915
Deduct Collection Charges in the Civil Department	9,298	9,293	10,808	11,215
Net Revenue	1,69,550	1,84,300	2,01,800	2,12,700
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	7,116	6,700	7,200	7,300
Total	1,76,666	1,91,000	2,09,000	2,20,000
Cauvery Delta—				
Irrigation Revenue	42,28,783	42,21,000	42,51,000	42,63,000
Deduct Revenue due to old Irrigation	33,80,065	33,74,200	33,97,600	34,07,400
Revenue due to the System	8,48,718	8,46,800	8,53,400	8,55,600
Share of enhanced Land Revenue	1,11,525	1,13,420	1,13,520	1,14,550
Total	9,60,243	9,60,220	9,66,920	9,70,150
Deduct Collection Charges in the Civil Department	48,012	48,220	47,920	48,150
Net Revenue	9,12,231	9,12,000	9,19,000	9,22,000
Srívaikuntam Anicut—				
Irrigation Revenue	1,89,738	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	1,10,738	1,06,000	1,06,000	1,06,000
Share of enhanced Land Revenue	1,775	2,000	2,000	2,000
Total	1,12,513	1,08,000	1,08,000	1,08,000
Deduct Collection Charges in the Civil Department	5,626	5,000	5,000	5,000
Net Revenue	1,06,887	1,03,000	1,03,000	1,03,000
Barur Tank—				
Irrigation Revenue	11,622	13,000	12,000	12,500
Deduct Revenue due to old Irrigation	2,000	2,000	2,000	2,000
Revenue due to the System	9,622	11,000	10,000	10,500
Share of enhanced Land Revenue	2	...	...	...
Total	9,624	11,000	10,000	10,500
Deduct Collection Charges in the Civil Department	481	1,000	500	500
Net Revenue	9,143	10,000	9,500	10,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	...	...	...	...
Total	9,143	10,000	9,500	10,000

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, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
IRRIGATION—*continued.*	Rs.	Rs.	Rs.	Rs.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Kurnool-Cuddapah Canal—				
Share of enhanced Land Revenue under tanks owing to supply of canal water	6,855	7,350	7,500	7,500
Deduct Collection Charges in the Civil Department	343	350	375	375
Net Revenue	6,512	7,000	7,125	7,125
Rushikulya Project—				
Irrigation Revenue	1,13,652	1,10,000	1,20,000	1,20,000
Deduct Revenue due to old Irrigation	52,549	45,000	50,000	50,000
Revenue due to the System	61,103	65,000	70,000	70,000
Share of enhanced Land Revenue	95	200	200	200
Total	61,198	65,200	70,200	70,200
Deduct Collection Charges in the Civil Department	3,060	3,150	3,200	3,200
Net Revenue	58,138	62,050	67,000	67,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	6	950	1,000	1,000
Total	58,144	63,000	68,000	68,000
Periyár Project—				
Irrigation Revenue	3,61,756	4,51,550	4,51,550	4,24,800
Deduct Revenue due to old Irrigation	2,62,384	2,39,340	2,39,340	1,91,290
Revenue due to the System	99,372	2,12,210	2,12,210	2,33,510
Share of enhanced Land Revenue	2,678	20,000	20,000	44,209
Total	1,02,050	2,32,210	2,32,210	2,77,719
Deduct Collection Charges in the Civil Department	5,610	11,823	11,610	13,719
Net Revenue	96,440	2,20,387	2,20,600	2,64,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	10,141	40,613	40,400	50,000
Total	1,06,581	2,61,000	2,61,000	3,14,000
Total—				
Irrigation Revenue	1,08,62,438	1,08,15,550	1,09,91,143	1,11,95,200
Deduct Revenue due to old Irrigation	42,26,998	41,90,540	42,18,940	41,80,690
Revenue due to the System	66,35,440	66,25,010	67,72,203	70,14,510
Share of enhanced Land Revenue	4,42,765	4,72,063	4,76,510	5,05,249
Total	70,78,205	70,97,073	72,48,713	75,19,759
Deduct Collection Charges in the Civil Department	3,55,332	3,55,011	3,61,508	3,75,359
Net Revenue	67,22,873	67,42,062	68,87,205	71,44,400
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	28,424	59,938	60,795	70,600
Total	67,51,297	* 68,02,000	69,48,000	72,15,000

* Includes Rs. 8,000 which represents 4 per cent. on sale-proceeds of tank-bed and other waste lands chiefly in the Gódávari and K[illegible] systems not reported by the Board of Revenue in time to admit of its inclusion in the budget estimate of the year.

GOVERNMENT OF MADRAS.

CHARGES.

Abstract Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year from 1st April 1899 to 31st March 1900.

	Reference to Detailed Estimate.	Actual Outlay, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	PAGES.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.					
MAJOR (PROTECTIVE) WORKS.					
Famine Relief and Insurance.					
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.					
1. Works ... ... In progress ... RS. 25,000; Not commenced. ...		1,13,169	80,000	55,284	25,000
2. Establishment		32,748	18,400	12,716	5,750
3. Tools and plant		— 1,449	600	...	250
5. Receipts on capital account		— 460	...	...	...
Total ...		1,44,008	99,000	68,000	31,000
42. WORKING EXPENSES.					
1. Extensions and improvements. In progress ... ... RS.; Not commenced ... 84,979		52,761	89,996	75,717	84,979
2. Maintenance and repairs		6,26,555	6,63,364	6,25,461	6,93,034
3. Compensation *		40,000	40,000	40,000	40,000
4. Establishment		5,70,331	5,88,398	5,85,394	6,16,792
5. Tools and plant		1,00,483	1,18,242	1,10,428	90,195
6. Refunds of revenue		519	...	...	...
Total, Working Expenses ...		13,90,649	15,00,000	14,37,000	15,25,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.					
49. IRRIGATION.					
1. Works ... ... In progress ... RS. 3,00,300; Not commenced ... 1,93,818		6,09,157	3,91,414	4,31,168	4,94,118
2. Establishment		1,21,484	85,426	94,032	1,03,106
3. Tools and plant		55,015	23,160	10,800	2,776
5. Receipts on capital account		...	...	...	...
Total, Capital Expenditure ...		7,85,656	5,00,000	5,36,000	6,00,000

* Annual rent payable to the Travancore Durbar under the Periyár lease.

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1899–1900, arranged by Projects and Objects of Work.

IMPERIAL.	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897-98.	Budget Estimate, 1898-99.	Probable Outlay during 1898-99 (Revised Estimate).	Budget Estimate, 1899-1900.	Remarks and References.
MAJOR (PROTECTIVE) WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	
Famine Relief and Insurance.						
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
Capital Account.						
Rushikulya Project	45,53,000	42,55,220	99,000	68,000	31,000	Government of India register No. 7 I. of 1894–95. Proceedings of Madras Govt. No. 846 I. of 7th November 1894. Government of India register No. 13 I. of 1898–99. P.M.G. No. 955 I., dated 13th December 1898.
42. MAJOR WORKS (WORKING EXPENSES).						
Gódávari Delta	...	...	5,10,000	5,71,480	5,74,000	
Kistná do.	...	...	6,21,000	5,11,178	5,86,000	
Pennéru Anicut	...	...	22,000	6,514	16,000	
Sangam do.	...	...	33,000	29,036	34,000	
Kurnool-Cuddapah Canal ...	...	...	90,000	1,07,355	90,000	
Barur Tank Project	...	...	2,000	1,940	2,000	
Cauvery Delta	...	...	60,000	37,231	61,000	
Srívaikuntam Anicut ...	...	...	25,000	23,785	20,000	
Periyár Project	...	...	92,000	1,10,400	92,000	
Rushikulya Project	...	...	45,000	38,081	50,000	
~~Reserve~~	...	...	...	...	...	
Total ...	...	...	15,00,000	14,37,000	15,25,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION.						
Works in Progress.						
Gódávari Delta System ...	1,14,48,285	1,10,75,793	1,11,000	87,945	60,000	P.M.G. No. 283 I., dated 24th March 1896; No. 507 I., dated 12th June 1896; No. 618 I., dated 29th July 1896; No. 14 I., dated 5th January 1897; No. 536 I., dated 10th June 1897; No. 732 I., dated 9th August 1897; No. 790 I., dated 30th August 1897; No. 696 I., dated 28th July 1897; No. 969 I., dated 29th October 1897; No. 41 I., dated 18th January 1898; No. 109 I., dated 8th February 1898; No. 186 I., dated 9th March 1898; No. 643 I., dated 24th August 1898; No. 820 I., dated 25th October 1898; No. 833 I., dated 27th October 1898 and No. 846 I., dated 31st October 1898. Estimate for other works under preparation.
Kistna Delta do. ...	1,24,43,754	1,23,50,690	1,98,000	1,82,667	2,25,000	Construction estimate closed on 31st March 1898. Schedule of works remaining to be completed under preparation. P.M.G. No. 665 I. dated 3rd Sep: 1898
Cauvery Delta do. ...	26,47,227	18,65,959	33,000	1,16,301	2,25,000	P.M.G. No. 443 I., dated 11th May 1897; No. 454 I., dated 14th May 1897; No. 500 I., dated 28th May 1897; No. 644 I., dated 17th July 1897; No. 730 I., dated 9th August 1897; No. 755 I., dated 17th August 1897; No. 790 I., dated 30th August 1897; No 844 I., dated 20th September 1897; No. 990 I., dated 10th November 1897; No. 1102 I., dated 9th December 1897; No. 43 I., dated 18th January 1898; No. 294 I., dated 6th April 1898; No. 565 I., dated 22nd July 1898; No. 697 I., dated 12th August 1898; Nos. 715 I., dated 17th September 1898 and No. 856 I., dated 1st November 1898.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part I—continued.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897–98.	Budget Estimate, 1898–99.	Probable Outlay during 1898–99 (Revised Estimate.)	Budget Estimate, 1899–1900.	Remarks and References.
IMPERIAL—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE—*cont.*						
49. IRRIGATION—cont.						
Works in Progress—cont.						
Srivaikuntam Anicut System.	1389262	13,70,741	...	5,658	16,000	P.M.G., No. 650 I., dated 12th August 1895; No. 852 I., dated 22nd October 1896; No. 564 I., dated 17th June 1897; No. 415 I., dated 21st May 1898. Estimate for another work under preparation.
Periyár Project	8338437	82,92,852	1,58,000	1,42,602	74,000	Construction estimate closed on 31st March 1897. Schedule of works remaining to be completed under preparation. P.M.G. No. 361 I., dated 13th April 1897; No. 397 I., dated 27th April 1897; No. 572 I., dated 23rd January 1897; ~~No. 587 I., dated 26th January 1897~~; No. 788 I., dated 26th August 1897; No. 796 I., dated 1st September 1897; No. 842 I., dated 20th September 1897; No. 887 I., dated 7th October 1897; No. 900 I., dated 10th October 1897; No. 942 I., dated 21st October 1897; No. 994 I., dated 10th November 1897; ~~No. 100 I., dated 12th November 1897~~; No. 1003 I., dated 12th November 1897; No. 1013 I., dated 13th November 1897; and Nos. 1104 I. and 1141 I., dated 9th and 22nd December 1897; No. 298 I., dated 6th April 1898; ~~No. 358 I., dated 28th April 1898~~; No. 385 I., dated 10th May 1898; No. 389 I., dated 11th May 1898; No. 501 I., dated 30th June 1898; No. 561 I., dated 22nd July 1898; No. 563 I., dated 22nd July 1898; No. 586 I., dated 29th July 1898; No. 636 I., dated 22nd August 1898; No. 713 I., dated 17th September 1898; No. 787 I., dated 13th October 1898; No. 836 I., dated 28th October 1898; No. 876 I., dated 10th November 1898; No. 878 I., dated 10th November 1898; ~~and~~ No. 69 I., dated 11th January 1899.
Total					6,00,000	

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1899–1900.

	Budget Estimate, 1899–1900.	Revised Estimate, 1898–99.
	Rs.	Rs.
IMPERIAL.		
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works	25,000	55,284
Deduct item for which no charge for Establishment is admissible.		
Compensation for land	...	...
Net Grant ...	25,000	55,284
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	5,750	12,716
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs	7,78,013	7,01,178
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Gódávari Delta System	12,000	12,000
Do. do. Kistna do.	1,000	1,000
Do. do. Cauvery do.	270	370
Total ...	13,270	13,370
Net Grant ...	7,64,743	6,87,808
A. 23 per cent. on the Net Grant	1,75,891	1,58,195
Direct Revenue	2,85,000	3,00,000
Deduct estimated net collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,15,900	1,33,900
Net Direct Revenue ...	1,69,100	1,66,100
B. 10 per cent. on Net Direct Revenue	16,910	16,610
Irrigation Revenue from Major (Productive) Works exclusive of enhanced share of Land Revenue	69,44,510	67,02,203
Add estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,22,000	1,40,947
Total ...	70,66,510	

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 1899–1900—continued.

—	Budget Estimate, 1899–1900.	Revised Estimate, 1898–99.
	Rs.	Rs.
C. 6 per cent. on Irrigation Revenue	4,23,991	4,10,589
Total, A + B + C ...	6,16,792	5,85,394
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	4,94,118	4,31,168
Deduct item for which no charge for Establishment is admissible.		
Land compensation	45,830	22,335
Net Grant ...	4,48,288	4,08,833
Contribution to Provincial Funds at 23 per cent on Net grant -	103106	94,032
~~Contribution to Provincial Funds at 23 per cent. on Net Grant ...~~		
Total ...		

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 1899–1900—Nil.

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

[9]

Total ...

MINOR WORKS AND NAVIGATION.

MADRAS PRESIDENCY.

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION MINOR WORKS AND NAVIGATION

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1899-1900.

MADRAS,
April 1899.

Signed / W. Wright

Joint Secretary to Government, P.W.D.,
Irrigation Branch.

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PROVINCIAL—MINOR WORKS AND NAVIGATION.

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 1899 to 31st March 1900.

	Actual Realizations, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Rs.	Rs.	Rs.	Rs.
PROVINCIAL.				
IRRIGATION AND NAVIGATION WORKS.				
Works for which Capital and Revenue Accounts are kept.				
Ganjám Minor Rivers System	230	300	300	300
Dondapad Tank Project	...	...	...	10
Cumbum Tank System	1	...	...	...
Thadapalli Channel System	157	80	200	200
Arkenkotta Channel System	35	20	100	100
Kalingaroyen Channel System	626	...	1,400	1,200
Pálár Anicut System	2,131	1,600	1,600	1,700
Poiney Anicut System	416	300	300	300
Cheyáru Anicut System	286	300	300	300
Chembrambakam Tank System	55	100	100	100
Madras Water-supply and Irrigation Extension	16,542	18,400	18,400	17,500
Valluru Anicut System	...	40	40	20
Tirukkóyilúr Anicut System	566	420	360	360
Mehamattur Anicut System	27	50	30	30
Vriddhachalam Anicut System	232	50	300	300
Shatiatope Anicut System	358	300	600	600
Pelandorai Anicut System	323	250	1,000	1,000
Lower Coleroon Anicut System	982	1,630	810	700
Nandyar Channel Extension	90	100	100	100
Maradur Anicut System	384	60	60	180
Buckingham Canal	99,492	1,14,000	1,14,000	1,07,000
Védáranniyam Canal	872	1,000	1,000	1,000
Total ...	1,23,805	1,39,000	1,41,000	1,33,000
Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	7,462	9,000	7,000	7,000
AGRICULTURAL WORKS.				
Works for which neither Capital nor Revenue Accounts are kept ...	42,476	24,000	37,000	38,000
TOTAL ...	1,73,743	1,72,000	1,85,000	1,78,000

PROVINCIAL—MINOR WORKS AND NAVIGATION.

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 1899 to 31st March 1900.

	Reference to Detailed Estimate.	Actual Outlay, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	Pages.	Rs.	Rs.	Rs.	Rs.
PROVINCIAL.					
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.					
CAPITAL.					
1. Works ... In progress ... ... Rs. 1,79,642		3,77,874	3,55,276	3,41,043	3,48,355
Not commenced ... Rs. 1,68,713					
2. Establishment		92,327	78,724	77,290	76,345
3. Tools and Plant		— 6,073	1,000	250	1,000
Receipts on capital account		— 111	...	...	...
Total, Capital ...		4,64,017	4,35,000	4,18,583	4,25,700
REVENUE.					
1. Extensions and Improvements. In progress ... Rs. ...		17,567	29,241	34,959	25,881
Not commenced Rs. 25,881					
2. Maintenance and Repairs		1,92,620	2,08,430	2,24,567	2,15,359
3. Establishment		59,593	68,564	73,791	68,785
4. Tools and Plant		3,049	1,875	1,575	1,975
Refunds of Revenue		98	...	...	...
Total, Revenue ...		2,72,927	3,08,110	3,34,892	3,12,000
Total, Minor Works for which Capital and Revenue Accounts are kept		7,36,944	7,43,110	7,53,475	7,37,700
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works— Major ... In progress ... ... Rs. 64,500		1,38,146	82,480	1,29,227	89,034
Not commenced ... Rs. 24,534					
Minor		97,467	1,65,788	1,46,695	1,75,543
2. Repairs		7,46,877	8,60,719	8,27,412	8,56,487
3. Establishment		5,58,448	5,04,699	5,03,940	5,04,804
4. Tools and Plant		19,644	16,204	16,076	16,282
Refunds of Revenue		84	...	...	...
Total, Minor Works for which neither Capital nor Revenue Accounts are kept		15,60,666	16,29,890	16,23,350	16,42,150
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works— Major ... In progress ... ... Rs. 53,276		1,14,228	71,572	1,50,322	1,20,025
Not commenced ... Rs. 66,749					
Minor		9,947	10,300	11,060	10,400
2. Repairs		3,40,909	4,05,225	3,18,790	3,50,736
3. Establishment		1,02,081	1,12,615	1,12,300	1,11,937
4. Tools and Plant		6,466	7,188	7,703	7,052
Refunds of Revenue		291	...	...	...
Total, Agricultural Works ...		5,73,922	6,07,000	6,00,175	6,00,150
Total, Provincial ...		28,71,532	29,80,000	29,77,000	29,80,000

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 1899 to 31st March 1900—continued.

	Reference to Detailed Estimate.	Actual Outlay, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
	PAGES.	Rs.	Rs.	Rs.	Rs.
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.					
Works ... In progress ... ... Rs. 2,97,418		7,55,229	7,14,657	8,13,306	7,69,238
Works ... Not commenced 4,71,820					
Repairs		12,80,406	14,74,474	13,70,769	14,22,582
Establishment		8,12,449	7,64,602	7,67,321	7,61,871
Tools and Plant		23,086	26,267	25,604	26,309
Refunds of Revenue		473	...	...	...
Receipts on capital account		— 111	...	...	...
Total, Provincial ...		28,71,532	29,80,000	29,77,000	29,80,000
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		2,479	3,000	5,600	6,000
II. Repairs		3,988	2,000	3,400	3,000
Total ...		6,467	5,000	9,000	9,000

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 1899-1900, arranged by Projects and Objects of Work.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897-98.	Budget Estimate, 1898-99.	Probable Outlay during 1898-99 (Revised Estimate).	Budget Estimate, 1899-1900.	Remarks and References.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which Capital and Revenue Accounts are kept.						
CAPITAL.						
Works in Progress.						
Sangam Anicut System ...	2,08,000	...	85,000	21,354	49,200	P.M.G., No. 407 I., dated 9th May 1896.
Ganjám Minor Rivers System ...	78,876	43,360	22,000	36,900	28,000	P.M.G., No. 522 I., dated 22nd June 1896; No. 107 I., dated 5th February 1898; No. 90 I., dated 1st February 1898; No. 114 I., dated 10th February 1898; No. 215 I., dated 15th March 1898; No. 246 I., dated 21st March 1898; No. 278 I., dated 31st March 1898; Memo. No. 13 G.N., dated 16th April 1898; No. 14 G.N., dated 10th May 1898; P.M.G., No. 392 I., dated 12th May 1898 and No. 407 I., dated 20th May 1898. Estimates for other works under preparation.
Munnyeru Project	6,04,000	4,49,378	1,11,700	50,680	61,500	P.M.G., No. 518 I., dated 8th July 1898.
Thadapalli Channel System ...	1,14,680	1,16,122	...	...	9,840	P.M.G., No. 182 I., dated 19th February 1896. Estimate for other work under preparation.
Arkenkota do. ...	1,00,388	1,00,338	...	...	3,690	Estimate under preparation.
Kalingaroyen do. ...	81,970	62,061	...	...	12,300	P.M.G., No. 649 I., dated 13th July 1897, and No. 572 I., dated 30th September 1893.
Pálár Anicut System	19,73,913	19,66,622	9,700	6,127	600	P.M.G., No. 917 I., dated 15th October 1897.
Poiney do.	2,30,034	2,25,624	...	...	4,500	P.M.G., No. 548 I., dated 20th July 1898.
Cheyáru do.	3,94,407	3,94,407	...	...	6,150	Estimate under preparation.
Chopaud Project	3,65,000	91,366	41,160	2,040	35,980	P.M.G., No. 344 I., dated 8th April 1897. Revised estimate under preparation.
Lower Coleroon Anicut System.	13,62,016	7,86,329	87,000	1,48,537	1,80,920	P.M.G., No. 835 I., dated 8th October 1892; No. 960 I., dated 6th November 1893; No. 372 I., dated 5th May 1894; No. 181 I., dated 25th Feb. 1895; No. 273 I., dated 21st March 1896; No. 535 I., dated 25th June 1896; No. 555 I., dated 3rd July 1896; No. 338 I., dated 5th April 1897; No. 383 I., dated 21st April 1897; No. 557 I., dated 15th June 1897; No. 720 I., dated 3rd August 1897; No. 799 I., dated 1st September 1897; No. 426 I., dated 30th May 1898; No. 516 I., dated 7th July 1898; No. 611 I., dated 18th August 1898; No. 619 I., dated 12th August 1898; No. 807 I., dated 17th October 1898 and No. 872 I., dated 5th November 1898. Estimate for another work under preparation.

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 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897-98.	Budget Estimate, 1898-99.	Probable Outlay during 1898-99. (Revised Estimate).	Budget Estimate, 1899-1900.	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.						
CAPITAL—*continued.*						
Works in Progress—continued.						
Shatiatope Anicut System ...	2,24,379	1,64,666	36,900	59,627	5,800	P.M.G., No. 690 I., dated 8th September 1898.
Palandorai Anicut System ...	5,51,624	5,07,219	6,150	35,447	2,100	P.M.G., No. 378 I., dated 9th May 1894; No. 1088 I., dated 18th December 1895 and No. 91 I., dated 20th January 1899.
Nandyar Channel ~~System~~ Extension ...	53,490	53,490	...	...	3,000	Estimate under preparation.
Buckingham Canal	85,30,777	84,55,825	17,990	17,990	17,600	P.M.G., No. 403 I., dated 20th May 1898; No. 434 I., dated 3rd June 1898; No. 913 I., dated 24th November 1898; No. 936 I., dated 30th November 1898 and No. 282 I., dated 18th March 1899.
Works not commenced.						
Barur Tank System	2,700	...	...	...	4,520	P.M.G., No. 136 I., dated 6th February 1896, and No. 459 I., dated 28th May 1896. Estimate for another work under preparation.
Other works	...	...	...	39,881	...	
Total, Capital ..	...	...	...	4,18,583	~~4,19,600~~ 4,25,700	

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 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897-98.	Budget Estimate, 1898-99.	Probable Outlay during 1898-99 (Revised Estimate).	Budget Estimate, 1899-1900.	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.						
Ganjám Minor Rivers System ...	...	...	30,780	22,170	24,630	
Dondapad Tank System ...	...	...	860	209	370	
Munyeru Project	...	...	...	4,920	6,150	
Sagiléru Project	...	...	7,380	7,380	7,380	
Cumbum Tank System ...	...	...	2,460	1,353	2,460	
Thadapalli Channel System ...	...	...	7,150	13,312	9,860	
Arkenkotta do. ...	...	...	3,690	6,773	5,540	
Kalingaroyen do. ...	...	...	4,680	10,355	7,500	
Pálár Anicut System	...	...	38,200	35,843	44,950	
Poiney do.	...	...	13,560	9,870	13,560	
Cheyáru do.	...	...	18,480	18,480	17,250	
Chembrambakam Tank System.	...	...	**—3,000**	**—270**	**—3,020**	
Madras Water-supply and Irrigation Extension.	...	...	850	9,958	750	
Valluru Anicut System ...	...	...	1,220	1,220	620	
Tirukkóyilúr do. ...	...	...	16,000	18,454	14,490	
Mehamattur do. ...	...	...	3,920	3,918	3,450	
Vriddhachalam Anicut System...	...	...	6,380	3,945	4,460	
Shatiatope Anicut System ...	...	...	13,000	8,110	10,640	
Pelandorai do. ...	...	...	10,350	10,425	8,930	
Lower Coleroon Anicut System.	...	...	23,700	22,303	24,840	
Nandyar Channel System ...	...	...	6,160	6,160	6,160	
Maradur Anicut System ...	...	...	17,230	17,263	17,240	
Chilka Lake Canal	...	...	610	610	600	
Buckingham Canal	...	...	81,050	98,731	79,740	
Védáranniyam Canal	...	...	3,400	3,400	3,450	
Total, Revenue ..	...	...	3,08,110	3,34,892	3,12,000	
Total, Minor Works for which Capital and Revenue Accounts are kept.	...	...	7,43,110	7,53,475	7,37,700	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
Old maintenance charges ...	...	...	4,39,074	4,40,478	4,38,183	
Ordinary Minor Works ...	...	...	7,42,266	7,72,737	7,83,967	
Tank Restoration Works—						
Execution	...	...	4,13,550	3,42,776	3,85,000	
Minor Works, Revenue Department.	...	...	35,000	67,359	35,000	
Total ...	...	...	16,29,890	16,23,350	16,42,150	
Total, Irrigation and Navigation Works.	...	...	23,73,000	23,66,825	23,79,850	

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 1899–1900, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1897-98.	Budget Estimate, 1898-99.	Probable Outlay during 1898-99 (Revised Estimate).	Budget Estimate, 1899-1900.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Raising the Vasista Gódávari right bank from head to Chinchinada.	72,800	64,924	4,602	4,602	3,276	P.M.G., No. 56 I., dated 19th January 1893.
Raising and strengthening the right bank of the Kistna river from head to terminus.	1,72,500	53,853	...	...	50,000	P.M.G., No. 73 I., dated 12th January 1899.
Athur diversion, Tambrapurni right bank below Srivaikuntam anicut.	17,100	...	...	5,000	10,000	P.M.G., No. 931 I., dated 2nd December 1898.
Works not commenced.						
Raising the Kistna river left flood bank from 35 to 44 miles.	...	...	...	...	25,000	Estimate under preparation.
Raising the Kistna river left flood bank from 1 to 13 miles.	...	...	...	...	6,949	Do. do.
Constructing groyne between Venkatapalem lanka and the right margin of the Kistna river and excavating a channel between Venkatapalem and Vandavalli lankahs above anicut.	...	...	...	...	24,800	Do. do.
Total, Major Original Works ...	...	...	...	...	1,20,025	
Minor Original Works	...	...	...	...	10,400	
Repairs	...	...	...	...	3,50,736	
Establishment	...	...	...	...	1,11,937	
Tools and Plant	...	...	...	...	7,052	
Total, Agricultural Works ...	...	...	...	...	6,00,150	
Total, Provincial ...	...	...	...	...	29,80,000	
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	...	...	5,000	9,000	9,000	
Total ...	...	...	5,000	9,000	9,000	

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1899–1900.

Particulars.	Budget Estimate for 1899–1900. Per mensem.	Per annum.	Total.	Revised Estimate for 1898–99.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
43. Minor Works and Navigation.				
PROVINCIAL.				
Grant for works and repairs	...	...	21,91,820	21,84,075
Deduct item on which no charge for establishment is admissible—				
Grant for land compensation	...	...	34,301	15,880
Net Grant for Works and Repairs ...	...	...	21,57,519	21,68,195
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	...	...	4,96,230	4,98,685
Estimate of Direct Revenue	...	...	1,78,000	1,85,000
B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	...	...	17,800	18,500
Revenue due to old Irrigation under Major Productive Works.	...	...	41,30,690	41,68,940
C. Share of the Public Works establishment at 6 per cent. on Revenue.	...	...	2,47,841	2,50,136
Total, A + B + C ...	...	...	7,61,871	7,67,321
Total, Establishment Charges ...	...	...	7,61,871	7,67,321

PROVINCIAL—MINOR WORKS AND NAVIGATION.

MADRAS PRESIDENCY.

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 1899–1900—Nil.

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