

BACK PAPERS.

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

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
1556/11 2035/11 610/100							

Financial CURRENT No. 9/2

IRRIGATION.
ACCOUNT.

Government (1899) of Madras.

PUBLIC WORKS.

305 R : 11-3-98
824 : 5-10-97
R222 : 20-2-97.

Reed.

Regd.

1899.

Enclosures

Spare copies

G.O., No. 195 I., 23rd February 1899.

Order No. FEBRUARY.
no. 358 7 11-3-99

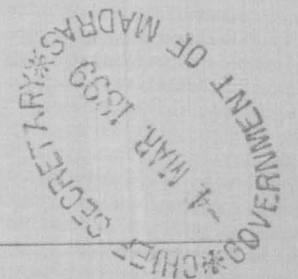
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msl
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8/3/99

Account (per) Desp 2

14/3/99



Budget Estimates of the Irrigation Branch

The preliminary issue of the — for "Major Works" and "Minor Works and Navigation" for 1899-1900, as drawn up by the Chief Engineer for Irrigation, approved and ordered, with remark, to be forwarded to the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

No. 34 I.

Note by the Chief Engineer for Irrigation.

The accompanying preliminary issue of the budget estimates of the Irrigation Branch, Public Works Department, under Imperial, Provincial and Local for 1899-1900, embodying the revised estimates for 1898-99, works up to the Imperial grants provisionally sanctioned by the Government of India in its letter No. 60 A. I., dated 19th December 1898, communicated with Proceedings of the Madras Government, No. 12 I., dated 4th January 1899, and to the Provincial and Local grants fixed in Proceedings of the Madras Government, No. 95, Financial, dated 12th January 1899, and Proceedings of the Madras Government, No. 1143, Financial, dated 2nd December 1898, respectively.

2. The budget estimates of receipts and expenditure for 1899-1900 compare with the revised estimates for 1898-99 and the actuals of 1897-98 as shown below :—

	Budget estimate, 1899-1900.	Revised estimate, 1898-99.	Budget estimate, 1898-99.	Actuals, 1897-98.
IMPERIAL.	RS.	RS.	RS.	RS.
<i>Receipts.</i>				
XXIX. Major Works—				
Direct receipts ..	2,85,000	2,82,000	2,88,000	2,92,414
Portion of land revenue due to irrigation ..	72,15,000	69,48,000	68,02,000	67,51,297
Total ..	75,00,000	72,30,000	70,90,000	70,43,711
<i>Expenditure.</i>				
35. Protective Works—Irrigation ..	31,000	(a) 78,105	99,000	1,44,008
42. Major Works (working expenses) ..	15,25,000	(b) 15,00,000	15,00,000	13,90,649
49. Capital expenditure not charged to Revenue ..	60,000	(c) 5,60,000	5,00,000	7,85,656
Total ..	21,56,000	21,38,105	20,99,000	23,20,313
PROVINCIAL.				
<i>Receipts.</i>				
XXX. Minor Works and Navigation—				
Direct receipts ..	1,78,000	1,85,000	1,72,000	1,73,743
<i>Expenditure.</i>				
43. Minor Works and Navigation ..	29,80,000	29,77,400	29,80,000	28,71,532
LOCAL IRRIGATION CESS FUND.				
<i>Expenditure.</i>				
43. Minor Works and Navigation ..	9,000	9,430	5,000	6,467
Total .. (Receipts)	76,78,000	74,15,000	72,62,000	72,17,454
(Expenditure)	51,45,000	51,24,935	50,84,000	51,98,312

NOTE.—Exclusive of Rs. 9,840 under (a), Rs. 59,000 under (b), and Rs. 24,069 under (c) surrendered in telegram, dated 11th February 1899, to the Government of India.

3. *Major Works—Direct Receipts.*—The current year's revised estimate is Rs. 6,000 less than the budget estimate; the decrease is chiefly anticipated under the Gódavari delta system, the revenue realized from which in the previous year fell short of the budget estimate. Compared with the revised estimate for the current year, the budget estimate for the ensuing year shows an increase of Rs. 3,000 which is chiefly anticipated in the Kistna delta system under wharfage fees.

4. *Major Works—Portion of Land Revenue due to Irrigation.*—The current year's revised estimate is Rs. 1,46,000 more than the budget estimate. The increase occurs chiefly under the Kistna delta system and is due to the revised estimate being based on the actuals of the previous year. The budget estimate for next year is Rs. 2,67,000 more than the current year's revised estimate. The increase is partly due to the expectation that, owing to the stationary condition of prices, the second-crop cultivation under the Gódavari delta system will not fall off, and that the re-settlement of the Gódavari district will be introduced during 1899-1900, and partly to the anticipated extension of irrigation under the Periyár project.

5. 35. *Protective Works—Irrigation.*—The current year's revised estimate is Rs. 20,895 less than the budget estimate. Owing to the completion of the Suradá reservoir resulting in a saving on the estimate, this amount was relinquished to the Government of India and accepted in its telegram No. 01—A.I., dated 4th January 1899, printed in Proceedings of the Madras Government, No. 43 I., dated 9th January 1899. The budget estimate for next year is Rs. 47,105 less than the revised estimate for the current year.

6. 42. *Major Works—Working Expenses.*—The current year's budget and revised estimates under this head are the same. In the schedule of demands printed in Proceedings of the Madras Government, No. 919 I., dated 29th November 1898, Rs. 15,35,000 were applied for for expenditure during 1899-1900, but only Rs. 15,25,000 having been sanctioned by the Government of India, the grant originally proposed for the Gódavari delta system has been reduced by Rs. 10,000.*

* Vide Proceedings of the Madras Government, No. 12 I., dated 4th January 1899. The Superintending Engineer, I Circle, should endeavour to obviate the necessity for an additional grant by regulating the expenditure with reference to the amount available.

7. The provisional grant of Rs. 15,25,000 for next year is distributed as shown below :—

below.

Systems.	Extensions and improvements.	Maintenance and repairs.	Establishment.			Tools and plant.	Total.
			23 per cent. on expenditure.	10 per cent. on direct revenue.	6 per cent. on irrigation revenue.		
1	2	3	4	5	6	7	8
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Productive—	27,000	2,50,073	60,967	9,900	1,86,060	40,000	5,74,000
Gódavari delta	27,000	2,95,000	73,830	5,500	1,37,340	47,330	5,86,000
Kistna do.	564	6,373	1,336	40	8,820	5	16,000
Pennér anicut	4,818	13,116	4,079	80	12,114	7	34,000
Sangam do.	3,493	61,800	15,017	770	7,320	1,600	90,000
Kurnool-Cuddapah canal.	..	1,114	256	..	630	..	2,000
Barur tank	22,193	14,234	1,769	320	51,336	384	61,000
Cauvery delta	1,239	9,792	2,537	150	6,360	78	20,000
Sriyaikuntam anicut ..	..	70,000*	6,900	..	14,011	1,089	92,000
Periyár project	..	..	..	..	..	..	..
Protective—	..	40,000	9,200	150	..	650	50,000
Rushikulya project ..	..	..	..	..	..	..	..
Total	84,979	7,33,034	1,75,891	16,910	4,23,991	90,195	15,25,000

* Includes Rs. 40,000 annual rent payable to the Travancore Darbar under the Periyár lease.

Financial
Judicial (1899) Department.

ORDINARY MS.

G.O., No. 358

DATED 11-3-99

INDEXED.

2/20

[Despatch Abstract.]

Recording Proceedings of the P.W. & approving & forwarding to the Govt. of India the preliminary issue of the Budget estimates of the Irrigation Branch for major works and "minor works and navigation" for 1899-1900 as drawn up by the Chief Engineer for Irrigation.

11.3.99

8. The amount provided for extensions and improvements to the Pennér ancient system, and that for maintenance and repairs to the Cauvery delta system are Rs. 564 and Rs. 14,234, respectively, less than the old maintenance charges provided for under "43. Minor Works and Navigation."

9. The subjoined statement shows the amounts applied for and those provided under "Extensions and Improvements," "Maintenance and Repairs" and "Tools and Plant" for each division for 1899-1900:—

Systems.	Divisions.	Extensions and improvements.		Maintenance and repairs.		Tools and plant.	
		Amount applied for.	Amount provided.	Amount applied for.	Amount provided.	Amount applied for.	Amount provided.
1	2	3	4	5	6	7	8
	<i>Productive.</i>	RS.	RS.	RS.	RS.	RS.	RS.
Gódavari delta ..	Eastern	7,000	7,000	88,000	80,000	32,000	32,000
	Central	10,000	10,000	80,000	80,000	3,000	3,000
	Western	10,000	10,000	90,000	84,074	5,000	5,000
	Total	27,000	27,000	2,58,000	2,50,074	40,000	40,000
Kistna delta ..	Eastern	22,000	22,000	1,95,000	1,95,000	42,500	42,330
	Northern	5,000	5,000	1,00,000	1,00,000	5,000	5,000
	Western	5,000	5,000	1,00,000	1,00,000	5,000	5,000
	Total	27,000	27,000	2,95,000	2,95,000	47,500	47,330
Pennér ancient ..	Nellore	3,000	3,000	20,000	20,233	..	..
	Deduct—Old maintenance charges.	3,564	3,564	13,860	13,860	..	..
	Net Total ..	— 564	— 564	6,140	6,373	— 5	— 5
Sangam ancient ..	Nellore	5,000	4,963	25,000	25,000	50	50
	Deduct—Old maintenance charges.	345	345	11,884	11,884	57	57
	Net Total ..	4,655	4,618	13,116	13,116	— 7	— 7
Kurnool-Cuddapah canal.	Kurnool	3,500	3,493	61,800	61,800	1,600	1,600
Barur tank ..	Salem	..	..	1,200	1,114	..	..
Cauvery delta. ..	Tanjore	15,000	15,193	50,000	50,000	1,000	1,000
	Negapatam	6,000	6,000	33,000	33,000	200	200
	Trichinopoly	1,000	1,000	8,400	8,400	20	19
	Total	22,000	22,193	91,400	91,400	1,220	1,219
	Deduct—Old maintenance charges.	..	..	1,05,634	1,05,634	1,603	1,603
	Net Total ..	22,000	22,193	— 14,234	— 14,234	— 383	— 384
Srivaikuntam ancient.	Tinnevely	1,000	1,591	15,000	15,000	..	..
	Deduct—Old maintenance charges.	352	352	5,208	5,208	78	78
	Net Total ..	648	1,239	9,792	9,792	— 78	— 78
Periyár project ..	Madura	..	..	70,000	70,000	500	1,089
Rushikulya project.	Protective—Ganjám	..	..	40,000	40,000	1,200	650
	Grand Total ..	84,239	84,979	7,40,814	7,33,034	90,427	90,195

10. *Capital Expenditure not charged to Revenue—49. Irrigation.*—The current year's revised estimate is Rs. 60,000 more than the budget estimate. The increase represents the additional allotments sanctioned by the Government of India in its letters No. 477 C.W.I., dated 7th September 1898, and No. 67 A.I., dated 20th December 1898, communicated with Proceedings of the Madras Government, No. 729 I., dated 21st September 1898, and No. 16 I., dated 4th January 1899, respectively.

11. The provisional grant of Rs. 6,00,000 sanctioned for next year is Rs. 40,000 more than the current year's revised estimate and is distributed as shown below:—

Projects.	Divisions.	Land.	Works.	Establishment.	Tools and Plant.	Total.
		RS.	RS.	RS.	RS.	RS.
Gódavari delta ..	Eastern	..	9,702	..	..	..
	Central	4,000	7,000	..	..	..
	Western	2,000	27,200	..	..	..
	Total	6,000	43,902	10,098	..	60,000
Kistna delta ..	Eastern	20,000	48,270	..	..	..
	Western	23,900	96,832	..	2,625	..
	Total	43,900	1,45,102	33,373	2,625	2,25,000
Cauvery delta ..	Tanjore	..	1,74,400	..	888	..
	Negapatam	..	7,805	..	..	..
	Total	..	1,82,205	41,907	888	2,25,000
Srivaikuntam ancient ..	Tinnevely	..	13,008	2,992	..	16,000
Periyár project ..	Madura	..	60,000	13,800	200	74,000
	Grand Total ..	49,900	4,41,217	1,02,170	3,713	6,00,000

In the schedule of demands printed in Proceedings of the Madras Government, No. 919 I., dated 29th November 1898, Rs. 6,61,000 were applied for for expenditure during 1899-1900, but the provisional assignment sanctioned* by the Government of India being only Rs. 6,00,000,

* *Vide* Proceedings of the Madras Government, No. 12 I., dated 4th January 1899. the grants originally proposed for the Gódavari, Kistna and the Cauvery delta systems have been reduced in accordance with Proceedings of the Madras Government, No. 12 I., dated 4th January 1899. Superintending Engineers concerned should submit, as soon as possible, revised schedules showing the distribution by component works of the reduced grants for incorporation in Part II of the final issue of the budget estimates. The construction estimate of the Kistna delta system having been closed on the 31st March 1898, the Superintending Engineer, II Circle, should expedite the submission of the schedule of works, report and index map called for in letter from the Government of India, No. 224 I., dated 6th July 1898, printed in Proceedings of the Madras Government, No. 570 I., dated 25th July 1898. The completion report, schedule of incomplete works, &c., of the Periyár project received from the Superintending Engineer, VI Circle, are under scrutiny and will be shortly submitted to Government.

12. *Direct Receipts.*—The current year's revised estimate is Rs. 13,000 more than the budget estimate. The increase represents the anticipated receipts from the sale of river lankas for cultivation. The budget estimate for the ensuing year is Rs. 7,000 less than the current year's revised estimate, the decrease being due to a probable falling off in the navigation receipts of the Buckingham canal.

13. *Provincial—Minor Works and Navigation.*—The current year's revised estimate is Rs. 2,600 less than the budget estimate, and the ensuing year's budget estimate exceeds the revised estimate for the current year by a corresponding amount. The decrease in the revised estimate represents the amount transferred to "43. Local" in Proceedings of the Madras Government, No. 761 I., dated 3rd October 1898.

14. The assignment of 29.80 lakhs, including 35 lakh for Minor works, Revenue Department, sanctioned by the Financial Department, and which is 1.15 lakhs less than the amount applied for, is distributed as shown below:—

Minor works for which Capital and Revenue Accounts are kept—	RS.	RS.
Capital account (<i>vide</i> paragraph 15)	...	4,02,000
Revenue " " " " 16)	...	3,12,000
Minor works for which neither Capital nor Revenue Accounts are kept, Public Works Department—		7,14,600
Old Maintenance charges of Major and Minor works for which Capital and Revenue Accounts are kept (<i>vide</i> paragraph 17)	...	4,38,183
Ordinary works (<i>vide</i> paragraph 18)	...	8,07,667
Tank Restoration works (<i>vide</i> paragraph 20)	...	3,85,000
Minor works, Revenue Department (<i>vide</i> paragraph 22)	...	35,000
Agricultural works (<i>vide</i> paragraph 21)	...	6,00,150
		16,65,850
		6,00,150
Total		29,80,000

15. *Capital Account*.—The amount proposed for expenditure under this head compares with the sanctioned estimates as shown below:—

Projects.	Amount of sanctioned estimates.	Outlay to end of 1897-98.	Probable outlay during 1898-99.	Budget estimate, 1899-1900.					Total outlay.	Balance of estimate.
				Land.	Works.	Estab-lish-ment.	Tools and plant.	Total.		
Sangam anicut	Rs. 2,08,000	Rs. ..	Rs. 21,354	Rs. ..	Rs. 40,000	Rs. 9,200	Rs. ..	Rs. 49,200	Rs. 70,554	Rs. 1,37,446
Barur tank	2,700	..	..	..	3,675	845	..	4,520	4,520	1,820
Ganjām minor rivers	78,870	43,360	36,900	500	22,358	5,142	..	28,000	1,08,260	29,390
Munuyeru	6,04,000	4,49,378	50,680	4,500	45,528	10,472	..	61,500	5,61,558	42,442
Chopaud	3,65,000	91,366	2,040	..	30,000	6,900	1,000	36,900	1,39,306	2,34,694
Thadapalli channel	1,14,680	1,16,122	..	..	8,000	1,840	..	9,840	1,25,962	11,282
Arkenkota do.	1,00,388	1,00,388	..	..	3,000	690	..	3,690	1,04,078	3,690
Kalingaroyen do.	81,970	62,061	..	..	488	112	..	600	19,73,349	564
Pālār anicut	19,73,913	19,66,622	6,127	..	10,000	2,300	..	12,300	74,361	7,609
Poincy do.	2,30,034	2,25,624	..	..	5,000	1,150	..	6,150	4,00,557	6,150
Cheyāru do.	3,94,407	3,94,407	..	..	3,658	842	..	4,500	2,80,124	90
Lower Coleroon do.	13,62,016	7,86,329	1,48,537	..	1,47,805	33,995	..	6,150	4,00,557	6,150
Nandiyar channel extension	53,490	53,490	..	..	2,439	561	..	3,000	56,490	3,000
Total	..	..	..	5,000	3,21,951	74,049	1,000	4,02,000	..	..

The amount proposed for the Sangam anicut system, viz., Rs. 40,000, provides for diverting the surplus of the Kanigiri reservoir into the Pyderu, the estimate for which was sanctioned in Proceedings of Madras Government, No. 407 I., dated 9th May 1896. The provision made for works of the Barur tank project includes Rs. 1,500 for an unsanctioned work, the estimate for which should be submitted for the sanction of Government at an early date; the balance is for works sanctioned in Proceedings of Madras Government, No. 136 I., dated 6th February 1896, under "49. Capital Expenditure not charged to Revenue," but which under the orders conveyed in the Government of India letter, No. 84 I., dated 29th April 1896, printed in Proceedings of Madras Government, No. 459 I., dated 28th May 1896, should be charged to "43. Minor Works and Navigation—Provincial."

The amount proposed for the Ganjām minor rivers system provides for improvements to the several channels, and includes provision for five unsanctioned works amounting to Rs. 5,465. A sum of Rs. 61,500 is provided for Munuyeru project works, and Rs. 36,900 for Chopaud project. The Superintendent Engineer, III Circle, should expedite submission of the revised estimate for the latter project called for in G.O., No. 1064 I., dated 29th November 1897. The provision of Rs. 12,300 for the Kalingaroyen channel system is for re-slucicing the channel for which an estimate of Rs. 17,900 was sanctioned in G.O., No. 752 I., dated 30th November 1898. The

amount provided for Lower Coleroon anicut system is chiefly for improvements to the Lower Coleroon anicut, for which an estimate of Rs. 3,14,100 was sanctioned in G.O., No. 516 I., dated 7th July 1898, and for clearing and widening old Coleroon drain sanctioned in G.O., No. 835 I., dated 8th October 1892; it includes also Rs. 5,500 for an unsanctioned work. The Superintending Engineers concerned should expedite the submission of the estimates for works for which funds have been provided in anticipation of sanction. In all cases the amounts applied for by Superintending Engineers have been provided with slight modifications to round off totals.

16. *Revenue Account*.—The following statement shows the amount provided for each system under this head:—

Divisions.	Systems.	Extensions and improvements.	Maintenance and repairs.	Establishment.		Tools and plant.	Total.
				23 per cent. on expenditure.	10 per cent. on direct receipts.		
		RS.	RS.	RS.	RS.	RS.	RS.
Ganjām ..	Ganjām minor rivers ..	..	20,000	4,600	30	..	24,630
	Dondapad tank ..	..	300	69	1	..	370
Kistna Northern.	Munuyeru project ..	..	5,000	1,150	..	..	6,150
Cuddapah	Sagileru ..	..	6,000	1,380	..	..	7,380
Kurnool	Cumbum tank ..	500	1,500	460	..	..	2,460
	Thadapalli channel ..	3,000	5,000	1,840	20	..	9,860
	Arkenkota ..	996	3,500	1,034	10	..	5,540
Coimbatore	Kalingaroyen ..	1,000	5,000	1,380	120	..	7,500
	Poincy anicut ..	2,000	9,000	2,530	30	..	13,560
	Cheyāru ..	2,000	12,000	3,220	30	..	17,250
North Arcot	Pālār ..	9,819	17,091	8,374	170	4	44,950
	Pālār anicut ..	1,500	8,000	..	..	..	..
	Chambrambakam tank ..	2,283	— 92	546	10	109	3,020
Chingleput	Madras water-supply and irrigation extension ..	3,600	2,795	185	1,750	10	750
	Vallūr anicut ..	..	503	115	2	..	620
	Tirukkóyilār ..	3,300	8,450	2,704	36	..	14,490
	Mahmuthur ..	702	2,100	645	3	..	3,450
	Vriddhachallam ..	802	2,800	828	30	..	4,460
South Arcot	Shateatope ..	..	8,602	1,978	60	..	10,640
	Pelandorai ..	1,939	5,242	1,651	100	2	8,930
	Lower Coleroon ..	2,200	13,438	4,632	70	..	24,840
Tanjore ..	Lower Coleroon anicut ..	500	4,000	1,150	10	..	6,160
Trichinopoly	Nandiyar channel ..	..	5,000	1,150	18	..	17,240
Tinnevely	Maradūr anicut ..	1,002	13,000	3,220	..	..	600
Ganjām ..	Chilka lake canal ..	..	488	112	..	..	3,450
Negapatam	Védaranniyam canal ..	..	2,642	608	100	100	79,740
Chingleput	Buckingham ..	504	54,000	12,536	10,700	2,000	..
	Total ..	25,881	2,16,359	55,485	13,300	1,975	3,12,000

The amounts applied for by Superintending Engineers have, in all cases, been provided.

17. *Old Maintenance Charges*.—The sum provided is Rs. 74,021 more than that fixed in G.Os., Nos. 395 I. and 484 I., dated 18th July and 4th September 1890, respectively. The increase is due to the Board of Revenue having raised the old irrigation revenue for the Cauvery delta system from Rs. 23,65,000 to Rs. 34,07,400 (*vide* Proceedings of Madras Government, No. 102 I., dated 25th January 1899) and to the addition of the old irrigation revenue of Rs. 1,91,290 of the Periyār project.

18. *Ordinary Works*.—The allotments proposed under this head are compared below with the current year's grants:—

	1899-1900.	1898-99.
	RS.	RS.
Original works, Major	86,154	1,29,227
Do. Minor (<i>vide</i> statement A.)	1,58,400	1,04,190
Repairs (<i>vide</i> statement A.)	4,04,400	3,87,260
Total	6,48,954	6,20,667
Establishment 23 per cent. on expenditure	1,48,339	1,42,093
Do. 10 " on direct revenue	700	700
Total	1,49,039	1,42,793
Tools and plant at 1½ per cent. on expenditure	9,674	9,267
Total	8,07,667	7,72,737

* Inclusive of a reserve of Rs. 44,000.

19. *Under Original Works*—Major funds have been provided for the following works :—

	Amount provided.	Amount applied for.
	RS.	RS.
Kistna Northern division—		
(1) Ipur tank	...	...
(2) Jonapad tank	11,000	11,000
	5,000	5,000
Bellary Division—		
(3) Rampur channel improvements	...	...
(4) Yaprol and Kollicol tank supply channel	2,000	2,000
(5) Roya channel.—Excavating a supply channel to—	5,000	5,000
(6) Thoortha channel.—Constructing a surplus sluice to —	3,000	3,000
(7) Improvements to the bund of supply channel from the Pennéru river to Hindupur tank	1,000	1,000
(8) Kunnimokula Yerracheruvu tank.—Improving the tank with its supply channel and head work	1,000	1,000
(9) Siruguppa channel improvements	4,000	4,000
	6,824	10,000
Cuddapah division—		
(10) Chintagunta tank improvements	...	...
(11) Peddapasupula channel improvements	15,000	25,000
(12) Muddanur tank improvements	10,000	10,000
(13) Lingala tank improvements	2,500	2,500
	5,000	5,000
Coimbatore division—		
(14) Re-sluicing Karatholuvu channel	...	...
(15) Do. Kadathur channel	3,000	3,000
	3,000	3,000
Madura division—		
(16) Restoring and improving the Pudn anicut across the Manjalar river	...	...
	3,830	3,830
Tinnevely division—		
(17) Improving Singamputti Perungal channel	...	...
	5,000	5,000
Total	86,154	99,330

The estimates for items 5, 14 and 15 have not yet been sanctioned. The Superintending Engineers concerned should expedite the submission of the estimates for the sanction of Government.

The amounts proposed by Superintending Engineers for the following unsanctioned works have not been provided :—

	Amount proposed.
	RS.
Vizagapatam division—	
(1) Surplus escape to Suradā at Gokivadagedda	6,000
Gódvāvari Western division—	
(2) Restoration of Kalyanarayudu tank	5,000
Kurnool division—	
(3) Yerragundalapoliem tank improvements	5,000
Salem division—	
(4) Re-constructing Athur anicut	10,000
Trichinopoly division—	
(5) Raising and strengthening the bund of Mullipadi tank	3,310
(6) Constructing combined head and sand sluices to Ayalore and Siplaputhur channel branching off from the Agunda Cauvery	4,700
Total	34,010

20. *Tank Restoration Works*.—The amount of Rs. 3,09,237 provided for expenditure on tank restoration works has been distributed as shown below :—

Divisions.	Probable balance of sanctioned estimates on 1st April 1899.	Amount applied for by Superintending Engineers.	Amount provided.
	RS.	RS.	RS.
Gódvāvari Eastern	...	1,000	1,000
Kistna Northern	3,649	4,000	4,000
Nellore	1,11,595	20,000	45,000
Bellary	52,960	15,000	15,000
Salem	18,717	50,000	25,000
North Arcot	1,10,384	35,000	35,000
Chingleput	1,15,979	50,000	50,000
South Arcot	18,780	14,000	14,000
Negapatam	15,217	10,000	10,000
Madura	1,12,585	50,000	50,000
Tinnevely	1,63,582	60,000	60,000
Total	...	3,09,000	3,09,000

21. *Agricultural Works*.—The distribution of Rs. 6,00,150 provided for expenditure on agricultural works during the next year compares with the current year's grants as shown below :—

	1899-1900.	1898-99.
	RS.	RS.
Original works, Major	1,20,025	1,50,322
Do. Minor	10,400	11,060
Repairs	3,50,736	3,18,790
Establishment at 23 per cent. on expenditure	1,08,137	1,08,600
Do. at 10 " on direct receipts	3,800	3,700
Tools and plant at 1½ per cent. on expenditure	7,052	7,703
Total	6,00,150	6,00,175

The major original works for which funds have been provided are enumerated in part I of the budget estimate for "43. Minor Works and Navigation." The Superintending Engineer, II Circle, should submit, without delay, the estimates for the following works for which funds have been provided in anticipation of sanction :—

- (1) Raising the Kistna river left flood bank from 35 to 44 miles.
- (2) Raising the Kistna river left flood bank from $\frac{1}{2}$ to $\frac{1}{10}$ miles.
- (3) Constructing groyne between Venkatapalem lanka, and the right margin of the Kistna river, and excavating a channel between Venkatapoliem and Vundavalli lankas above anicut.

The distribution of the grants for minor original works and repairs is shown in statement B attached to this note.

22. *Minor Works, Revenue Department*.—The budget estimate of Rs. 35,000 has been distributed as shown below :—

	RS.
Reserve—	
Minor original works	28,112
Establishment	6,466
Tools and plant	422
Total	35,000

Superintending Engineers should apply, at an early date, for the funds required for expenditure on sanctioned works to be executed by Public Works Department officers.

ORDER—No. 195 I., dated 23rd February 1899.

The budget estimates, preliminary issue, for "Major Works" and "Minor Works and Navigation" for 1899-1900 embodying the revised estimates for 1898-99, as drawn up by the Chief Engineer for Irrigation, are approved and will be forwarded to the Government of India.

2. The attention of the Superintending Engineers concerned is drawn to the remarks of the Chief Engineer for Irrigation in the foregoing note.

3. Ordered that the following letter be sent.

[Here enter No. 196 I., dated 23rd February 1899.]

(True Extract.)

Am... ..
Joint Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ all Superintending Engineers.
„ the Superintending Engineer on Special Duty, Tanjore.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.
„ the Financial Department. /

Exd. A. Rungasawmy Aiyangar.

IMPERIAL—MAJOR WORKS.

MADRAS PRESIDENCY.

PRELIMINARY ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION-MAJOR WORKS

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1899-1900.

MADRAS,
23rd February 1899.

(Signed) W. HUGHES,
Joint Secretary to Government, P.W.D.,
Irrigation Branch.

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IMPERIAL—MAJOR WORKS.

MADRAS PRESIDENCY.

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.
IRRIGATION.		Rs.	Rs.	Rs.	Rs.
IMPERIAL.					
MAJOR WORKS (DIRECT RECEIPTS). (PRODUCTIVE.)					
Gó dávari Delta System, Collections in the Public Works Department.		96,447	1,12,000	99,000	99,000
Kistna Delta System	do.	45,228	45,600	53,000	55,000
Pennéru Anicut System	do.	376	400	400	400
Sangam Anicut System	do.	1,311	600	800	800
Cauvery Delta System	do.	3,347	3,100	3,300	3,200
Srívaikuntam Anicut System	do.	1,975	1,300	1,450	1,500
Periyár Project	do.	684			
Kurnool-Cuddapah Canal.					
Collections in the Revenue Department		1,43,269	1,20,000	1,22,000	1,22,000
Deduct Collection Charges		7,163	6,000	6,100	6,100
Net Collections in the Revenue Department		1,36,106	1,14,000	1,15,900	1,15,900
Collections in the Public Works Department		6,156	9,500	6,650	7,700
Total		1,42,262	1,23,500	1,22,550	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	2,82,000	2,85,000

IMPERIAL—MAJOR WORKS.

MADRAS PRESIDENCY.

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.
IRRIGATION.		Rs.	Rs.	Rs.	Rs.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.					
Gó dávari 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.

IRRIGATION—continued.					Actual Realizations, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.					Rs.	Rs.	Rs.	Rs.
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
Deduct Collection Charges in the Civil Department					1,78,848	1,93,593	2,12,608	2,23,915
Net Revenue					9,298	9,293	10,808	11,215
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges					1,69,550	1,84,300	2,01,800	2,12,700
Total					7,116	6,700	7,200	7,300
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
Deduct Collection Charges in the Civil Department					9,60,243	9,60,220	9,66,920	9,70,150
Net Revenue					48,012	48,220	47,920	48,150
Srivaikuntam 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
Deduct Collection Charges in the Civil Department					1,12,513	1,08,000	1,08,000	1,08,000
Net Revenue					5,626	5,000	5,000	5,000
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	...	...	...
Deduct Collection Charges in the Civil Department					9,624	11,000	10,000	10,500
Net Revenue					481	1,000	500	500
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges					9,143	10,000	9,500	10,000
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.

IRRIGATION—continued.					Actual Realizations, 1897-98.	Budget Estimate, 1898-99.	Revised Estimate, 1898-99.	Budget Estimate, 1899-1900.
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.					Rs.	Rs.	Rs.	Rs.
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
Deduct Collection Charges in the Civil Department					61,198	65,200	70,200	70,200
Net Revenue					3,060	3,150	3,200	3,200
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges					58,138	62,050	67,000	67,000
Total					6	950	1,000	1,000
Periyar 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
Deduct Collection Charges in the Civil Department					1,02,050	2,32,210	2,32,210	2,77,719
Net Revenue					5,610	11,823	11,610	13,719
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges					96,440	2,20,387	2,20,600	2,64,000
Total					10,141	40,613	40,400	50,000
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
Deduct Collection Charges in the Civil Department					70,78,205	70,97,073	72,48,713	75,19,759
Net Revenue					3,55,332	3,55,011	3,61,508	3,75,359
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges					67,22,873	67,42,062	68,87,205	71,44,400
Total					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 Gôdâvari 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.

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.				
<i>Famine Relief and Insurance.</i>				
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.				
1. Works ... { In progress ... 25,000 Not commenced. ... }	1,13,169	80,000	63,500	25,000
2. Establishment ...	32,748	18,400	14,605	5,750
3. Tools and plant ...	— 1,449	600	...	250
5. Receipts on capital account ...	— 460	...	...	...
Total ...	1,41,008	99,000	78,105	31,000
42. WORKING EXPENSES.				
1. Extensions and im- { In progress ... provements. Not commenced ... 84,979 }	52,761	89,996	77,346	84,979
2. Maintenance and repairs ...	6,26,555	6,63,364	6,83,983	6,93,034
3. Compensation * ...	40,000	40,000	40,000	40,000
4. Establishment ...	5,70,331	5,88,398	5,98,093	6,16,792
5. Tools and plant ...	1,00,483	1,18,242	1,00,578	90,195
6. Refunds of revenue ...	519	...	...	...
Total, Working Expenses ...	13,90,649	15,00,000	15,00,000	15,25,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.				
49. IRRIGATION.				
1. Works ... { In progress ... 3,00,300 Not commenced ... 1,93,817 }	6,09,157	3,91,414	4,50,274	4,94,117
2. Establishment ...	1,21,484	85,426	98,426	1,02,170
3. Tools and plant ...	55,015	23,160	11,300	3,713
5. Receipts on capital account ...	...	...	...	...
Total, Capital Expenditure ...	7,85,656	5,00,000	5,60,000	6,00,000

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

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.						
MAJOR (PROTECTIVE) WORKS. <i>Famine Relief and Insurance.</i>						
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS. <i>Capital Account.</i>						
Rushikulya Project ...	45,53,000	42,55,220	99,000	78,105	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).						
Gódávári Delta ...	...	...	5,10,000	5,69,430	5,74,000	
Kistna do. ...	...	...	6,21,000	5,11,178	5,86,000	
Pennéru Anicut ...	...	...	22,000	9,085	16,000	
Sangam do. ...	...	...	33,000	20,036	34,000	
Kurnool-Cuddapah Canal ...	...	...	90,000	1,07,055	90,000	
Barur Tank Project ...	...	...	2,000	1,940	2,000	
Cauvery Delta ...	...	...	60,000	44,481	61,000	
Srivaikuntam Anicut ...	...	...	25,000	23,785	20,000	
Periyár Project ...	...	...	92,000	1,14,700	92,000	
Rushikulya Project ...	...	...	45,000	45,000	50,000	
Reserve ...	...	...	...	44,310	...	
Total ...	...	...	15,00,000	15,00,000	15,25,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION. <i>Works in Progress.</i>						
Gódávári Delta System ...	1,14,48,285	1,10,75,793	1,11,000	1,32,038	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. ...	...	1,23,50,690	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.
Cauvery Delta do. ...	26,47,227	18,65,959	33,000	98,880	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.

IMPERIAL—MAJOR WORKS.

MADRAS PRESIDENCY.

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.	...	13,70,741	...	3,813	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 ...	...	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 29th 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 13th 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 ...	...	...	5,00,000	5,60,000	6,00,000	

IMPERIAL—MAJOR WORKS.

MADRAS PRESIDENCY.

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.
IMPERIAL.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works ...	25,000	63,500
Deduct item for which no charge for Establishment is admissible.		
Compensation for land ...	...	...
Net Grant ...	25,000	63,500
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	5,750	14,605
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs ...	7,78,013	7,61,329
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Górávari 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	7,47,959
A. 23 per cent. on the Net Grant ...	1,75,891	1,72,030
Direct Revenue ...	2,85,000	2,82,000
Deduct estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal ...	1,15,900	1,15,900
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	1,22,000
Total ...	70,66,510	68,24,203

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	4,09,453
Total, A + B + C ...	6,16,792	5,98,093
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	4,94,117	4,50,274
Deduct item for which no charge for Establishment is admissible.		
Land compensation	49,900	22,335
Net Grant ...	4,44,217	4,27,939
Contribution to Provincial Funds at 23 per cent. on Net Grant ...	1,02,170	98,426

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.

MINOR WORKS AND
NAVIGATION.

MADRAS PRESIDENCY.

PRELIMINARY 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,
23rd February 1899.

(Signed) W. HUGHES,
Joint Secretary to Government, P.W.D.,
Irrigation Branch.

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PROVINCIAL—MINOR WORKS
AND NAVIGATION.

MADRAS PRESIDENCY.

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.
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 ...	1	...	...	10
Cumbum Tank System ...	157	80	200	200
Thadapalli Channel System ...	35	20	100	100
Arkenkotta Channel System ...	626	...	1,400	1,200
Kalingaroyen Channel System ...	2,131	1,600	1,600	1,700
Pálár Anicut System ...	416	300	300	300
Poincy Anicut System ...	286	300	300	300
Cheyáru Anicut System ...	55	100	100	100
Chembrambakam Tank System ...	16,542	18,400	18,400	17,500
Madras Water-supply and Irrigation Extension ...	...	40	40	20
Valluru Anicut System ...	566	420	360	360
Tirukkóyilár Anicut System ...	27	50	30	30
Mehamattur Anicut System ...	232	50	300	300
Vriddhachalam Anicut System ...	358	300	600	600
Shatiatope Anicut System ...	323	250	1,000	1,000
Pelandorai Anicut System ...	982	1,630	810	700
Lower Coleroon Anicut System ...	90	100	100	100
Nandyar Channel Extension ...	384	60	60	180
Maradur Anicut System ...	99,492	1,14,000	1,14,000	1,07,000
Buckingham Canal ...	872	1,000	1,000	1,000
Védáranniyam Canal ...	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.

MADRAS PRESIDENCY.

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.				
CAPITAL.					
1. Works ... { In progress ... Not commenced ... }		3,77,874	3,55,276	3,41,043	3,26,951
2. Establishment ...		92,327	78,724	77,290	74,049
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	4,02,000
REVENUE.					
1. Extensions and Improvements. { In progress ... Not commenced ... }		17,567	29,241	34,959	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	1,975	1,975
Refunds of Revenue ...		98	...	...	...
Total, Revenue ...		2,72,927	3,08,110	3,35,292	3,12,000
Total, Minor Works for which Capital and Revenue Accounts are kept ...		7,36,944	7,43,110	7,53,875	7,14,000
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works— Major ... { In progress ... Not commenced ... }		1,38,146	82,480	1,29,227	86,154
Minor ...		97,467	1,65,788	1,46,695	1,96,893
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	5,09,714
4. Tools and Plant ...		19,644	16,204	16,076	16,602
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	16,65,850
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works— Major ... { In progress ... Not commenced ... }		1,14,228	71,572	1,50,322	1,20,025
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	29,77,400	29,80,000

PROVINCIAL—MINOR WORKS
AND NAVIGATION.

MADRAS PRESIDENCY.

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 2,90,323 Not commenced 4,75,981 }	7,55,229	7,14,657	8,13,306	7,66,304
Repairs	12,80,406	14,74,474	13,70,769	14,22,582
Establishment	8,12,449	7,64,602	7,67,321	7,64,485
Tools and Plant	23,086	26,267	26,004	26,629
Refunds of Revenue	473	...	...	...
Receipts on capital account	— 111	...	...	...
Total, Provincial ...	28,71,532	29,80,000	29,77,400	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	3,830	3,000
Total ...	6,467	5,000	9,430	9,000

PROVINCIAL—MINOR WORKS
AND NAVIGATION.

MADRAS PRESIDENCY.

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.
Rs.	Rs.	Rs.	Rs.	Rs.	
PROVINCIAL.					
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.
Ganjām 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.
Munneyeru 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.
Pālār Anicut System	19,73,913	19,66,622	9,700	6,127	600 P.M.G., No. 917 I., dated 15th October 1897.
Poincy do.	2,30,034	2,25,624	...	...	4,500 P.M.G., No. 548 I., dated 20th July 1898.
Cheyāru do.	3,94,407	3,94,407	...	...	6,150 Estimate under preparation.
Chopaud Project	3,65,000	91,366	41,160	2,040	36,900 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	1,81,800 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.
Nandyar Channel System ...	53,490	53,490	...	...	3,000 Estimate under preparation.
Works not commenced.					
Barur Tank System	...	...	...	...	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	...	...	...	1,52,915	...
Total, Capital ..	...	...	...	4,18,583	4,02,000

PROVINCIAL—MINOR WORKS
AND NAVIGATION.

MADRAS PRESIDENCY.

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.
Rs.	Rs.	Rs.	Rs.	Rs.		
PROVINCIAL—continued.						
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	
Sagilérú 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	
Poincy 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.	...	...	...	...	...	
Valluru Anicut System ...	...	...	850	9,958	750	
Tirukkóyilúr do. ...	...	...	1,220	1,220	620	
Mehamattur do. ...	...	...	16,000	18,454	14,490	
Vriddhachalam Anicut System ...	...	...	3,920	3,918	3,450	
Shatiatope Anicut System ...	...	...	6,380	3,945	4,460	
Pelandorai do. ...	...	...	13,000	8,110	10,640	
Lower Coleroon Anicut System.	...	...	10,350	10,425	8,930	
Nandyar Channel System ...	...	...	23,700	22,303	24,840	
Maradur Anicut System ...	...	...	6,160	6,160	6,160	
Chilka Lake Canal ...	...	...	17,230	17,263	17,240	
Buckingham Canal ...	...	...	610	610	600	
Védáranniyam Canal ...	...	...	81,050	99,131	79,740	
	...	...	3,400	3,400	3,450	
Total, Revenue ...	...	...	3,08,110	3,35,292	3,12,000	
Total, Minor Works for which Capital and Revenue Accounts are kept.	...	...	7,43,110	7,53,875	7,14,000	
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	8,07,667	
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	16,65,850	
Total, Irrigation and Navigation Works.	...	...	23,73,000	23,77,225	23,79,850	

PROVINCIAL—MINOR WORKS
AND NAVIGATION.

MADRAS PRESIDENCY.

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.
Rs.	Rs.	Rs.	Rs.	Rs.		
PROVINCIAL—continued.						
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Raising the Vasista Gódávári right bank from head to Chinchinada.	72,800	64,924	4,602	4,602	3,276	P.M.G., No. 56 L., 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 L., dated 12th January 1899.
Athur diversion, Tambrapurni right bank below Srívaikuntam anicut.	17,100	...	...	5,000	10,000	P.M.G., No. 931 L., 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	9,430	9,000	
Total ...	...	...	5,000	9,430	9,000	

PROVINCIAL—MINOR WORKS
AND NAVIGATION.

MADRAS PRESIDENCY.

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.
	Per mensem.	Per annum.	Total.	
IRRIGATION.	Rs.	Rs.	Rs.	Rs.
43. Minor Works and Navigation.				
PROVINCIAL.				
Grant for works and repairs	...	...	21,88,886	21,84,075
Deduct item on which no charge for establishment is admissible—				
Grant for land compensation	...	...	20,000	15,880
Net Grant for Works and Repairs ...	...	...	21,68,886	21,68,195
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	...	...	4,98,844	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 ...	...	...	7,64,485	7,67,321
Total, Establishment Charges ...	...	...	7,64,485	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 Suspense Accounts are included under Provincial, 45. Civil Works.

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LETTER OF GOVERNMENT

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