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Revenue (1899) Department.

MISCELLANEOUS SERIES.

G.O., No. 999

DATED 10th March 99

[Despatch Abstract.]

Comng: to the Bd: of Rev:
Proc^p of the P.W.D. approving 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

28-4-99

BACK PAPERS.

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

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
Cur.	1262/99						

Revenue (1899) Dept.

IRRIGATION.
ACCOUNT.

Government {1899} of Madras.

PUBLIC WORKS.

Current No. 157

Recd. 4th March 1899.
Regd.

Enclosures 2

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

FEBRUARY.

G.O. misc No. 999 dt 10th March
Communicated
to Board of Revenue.
Mc
10/3/99

RS
7-3-99
17 To the Board of Rev (Rev

Budget Estimates of the Irrigation Branch GI 6-3-99 Des 14-3

The r… for "Major Works" and "Minor Works and
… up by the Chief Engineer for Irrigation,
… forwarded to the Government of India.

23rd Feb…

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.				
Receipts.	Rs.	Rs.	Rs.	Rs.
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
Expenditure.				
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.				
Receipts.				
XXX. Minor Works and Navigation—				
Direct receipts	1,78,000	1,85,000	1,72,000	1,73,743
Expenditure.				
43. Minor Works and Navigation	29,80,000	29,77,400	29,80,000	28,71,532
LOCAL IRRIGATION CESS FUND.				
Expenditure.				
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	[illegible]	50,84,000	51,98,312

Note.—Exclusive of Rs. 9,840 under (*a*), Rs. 59,000 under[illegible] 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 Gódávari 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 Gódávari delta system will not fall off, and that the re-settlement of the Gódávari 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 Gódávari delta system has been reduced by Rs. 10,000.* 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.

* *Vide* Proceedings of the Madras Government, No. 12 I., dated 4th January 1899.

7. The provisional grant of Rs. 15,25,000 for next year is distributed as shown 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—							
Gódávari delta	27,000	2,50,073	60,967	9,900	1,86,060	40,000	5,74,000
Kistna do.	27,000	2,95,000	73,830	5,500	1,37,340	47,330	5,86,000
Pennér anicut	— 564	6,373	1,336	40	8,820	— 5	16,000
Sangam do.	4,618	13,116	4,079	80	12,114	— 7	34,000
Kurnool-Cuddapah canal.	3,493	61,800	15,017	770	7,320	1,600	90,000
Barur tank	..	1,114	256	..	630	..	2,000
Cauvery delta	22,193	— 14,234	1,769	320	51,336	— 384	61,000
Srivaikuntam anicut ..	1,239	9,792	2,537	150	6,360	— 78	20,000
Periyár project ..	..	70,000*	6,900	..	14,011	1,089	92,000
Protective—							
Rushikulya project ..	..	40,000	9,200	150	..	650	50,000
T[illegible]	[illegible]	[illegible]	1,75,891	16,910	4,23,991	90,195	15,25,000

23rd February 18[illegible]

[illegible]avancore Darbar under the Periyár lease.

8. The amount provided for extensions and improvements to the Pennér anicut 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
	Productive.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gódávari delta ..	Eastern	7,000	7,000	88,000	86,000	32,000	32,000
	Central	10,000	10,000	80,000	80,000	3,000	3,000
	Western	10,000	10,000	90,000	84,073	5,000	5,000
	Total ..	27,000	27,000	2,58,000	2,50,073	40,000	40,000
Kistna delta ..	Eastern	22,000	22,000	1,95,000	1,95,000	42,600	42,330
	Northern	..	..	..	..	..	..
	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	47,600	47,330
Pennér anicut ..	Nellore	3,000	3,000	20,000	20,233	..	..
	Deduct—Old maintenance charges.	3,564	3,564	13,860	13,860	5	5
	Net Total ..	— 564	— 564	6,140	6,373	— 5	— 5
Sangam anicut ..	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 anicut.	Tinnevelly	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	..	74,10,00	70,000	70,000	500	1,089
Rushikulya project.	Protective—Ganjám	..	..	..	50,84,000	40,000	1,200	650
	Grand Total						

Rs. [illegible] communicated with Proceedings of the Madras Government, No. 67 A.I., dated 20th December 1898, and No. 67 A.I., dated 20th December 1898, 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.
Gódávari 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 anicut ..	Tinnevelly	..	13,008	2,992	..	16,000
Periyár project ..	Madura	..	60,000	13,800	200	74,000
	Grand Total ..	49,900	4,44,217	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, the grants originally proposed for the Gódávari, 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.

* *Vide* Proceedings of the Madras Government, No. 12 I., dated 4th January 1899.

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.

Minor works for which Capital and Revenue Accounts are kept—			
Capital account (*vide* paragraph 15)	4,02,000		
Revenue „ („ „ 16)	3,12,000		
		7,14,000	
Minor works for which neither Capital nor Revenue Accounts are kept, Public Works Department—			
Old Maintenance charges of Major and Minor works for which Capital and Revenue Accounts are kept (*vide* paragraph 17)	4,38,183		
Ordinary works (*vide* paragraph 18)	8,07,667		
Tank Restoration works (*vide* paragraph 20) ...	3,85,000		
Minor works, Revenue Department (*vide* paragraph 22)	35,000		
		16,65,850	
Agricultural works (*vide* paragraph 21)	6,00,150		
		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.	Establishment.	Tools and plant.	Total.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Sangam anicut ..	2,08,000	..	21,354	..	40,000	9,200	..	49,200	70,554	1,37,446
Barur tank	2,700	..	..	..	3,675	845	..	4,520	4,520	— 1,820
Ganjám 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	1,000	61,500	5,61,558	42,442
Chopaud	3,65,000	91,366	2,040	..	30,000	6,900	..	36,900	1,30,306	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	..	..	10,000	2,300	..	12,300	74,361	7,609
Pálár anicut..	19,73,913	19,66,622	6,127	..	488	112	..	600	19,73,349	564
Poiney do. ..	2,30,034	2,25,624	..	..	3,658	842	..	4,500	2,30,124	— 90
Cheyáru do. ..	3,94,407	3,94,407	..	..	5,000	1,150	..	6,150	4,00,557	— 6,150
Lower Coleroon do. ..	13,62,016	7,86,329	1,48,537	..	1,47,805	33,995	..	1,81,800	11,16,666	2,45,350
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 Ganjám 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 Superintending 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-sluicing the channel for which an estimate of Rs. 17,900 was sanctioned in G.O., No. 752 I., dated 30th November 1898. The

Rs. [illegible] for all unsanctioned work. The Superintending Engineers concerned [illegible] October 1892; it includes also 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.
Ganjám ..	Ganjám minor rivers	..	20,000	4,600	30	..	24,630
Kistna Northern.	Dondapad tank	..	300	69	1	..	370
Cuddapah	Munuyeru project	..	5,000	1,150	..	..	6,150
Kurnool	Sagiléru	..	6,000	1,380	..	..	7,380
..	Cumbum tank	500	1,500	460	..	..	2,460
Coimbatore ..	Thadapalli channel ..	3,000	5,000	1,840	..	..	9,860
	Arkenkota „ ..	996	3,500	1,034	20	..	5,540
	Kalingaroyen „ ..	1,000	5,000	1,380	10	..	7,500
North Arcot ..	Poiney anicut ..	2,000	9,000	2,530	120	..	13,650
	Cheyáru „ ..	2,000	12,000	3,220	30	..	17,250
	Pálár „ ..	9,819	17,091	8,374	170	— 4	44,950
	Palar anicut ..	1,500	8,000		10	— 109	— 3,020
	Chambrambakam tank ..	— 2,283	— 92	— 546			
Chingleput ..	Madras water-supply and irrigation extension ..	— 3,600	2,795	— 185	1,750	— 10	750
	Vallúru anicut ..	..	503	115	2	..	620
	Tirukkóyilúr „ ..	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
	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
South Arcot ..	Lower Coleroon anicut ..	500	4,000		10	..	6,160
Tanjore ..	Nandyar channel ..	..	5,000	1,150	18	..	17,240
Trichinopoly ..	Maradúr anicut ..	1,002	13,000	3,220	..	..	600
Tinnevelly ..	Chilka lake canal ..	..	488	112	..	..	3,450
Ganjám ..	Védáranniyam canal ..	..	2,642	608	100	100	79,740
Negapatam ..	Buckingham „ ..	504	54,000	12,536	10,700	2,000	
Chingleput ..	Total ..	25,881	2,15,359	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 Periyár 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 (*vide* statement A.) ...	* 1,58,400	1,04,190
Repairs (*vide* 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.

MADRAS,
[illegible] 1899.

28-9-01

...for which Capital and Revenue Accounts are

		RS.	RS.
Kistna Northern division—			
(1) Ipur tank		11,000	11,000
(2) Jonapad tank		5,000	5,000
Bellary Division—			
(3) Rampur channel improvements		2,000	2,000
(4) Yaprol and Kollical tank supply channel		5,000	5,000
(5) Roya channel.—Excavating a supply channel to—.		3,000	3,000
(6) Thoortha channel.—Constructing a surplus sluice to—		1,000	1,000
(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		4,000	4,000
(9) Siruguppa channel improvements		6,824	10,000
Cuddapah division—			
(10) Chintagunta tank improvements		15,000	25,000
(11) Peddapasupula channel improvements		10,000	10,000
(12) Muddanur tank improvements		2,500	2,500
(13) Lingala tank improvements		5,000	5,000
Coimbatore division—			
(14) Re-sluicing Karatholuvu channel		3,000	3,000
(15) Do. Kadathur channel		3,000	3,000
Madura division—			
(16) Restoring and improving the Pudu anicut across the Manjalar river		3,830	3,830
Tinnevelly division—			
(17) Improving Singamputty 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 Suradá at Gokivadagedda	6,000
Gódávari 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

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.

,300

8,02,000 | 69,48,000 | 72,15,000

-hich represents 4 per cent. on sale-proceeds of tank-bed and ot
admit of its inclusion in the budge

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...	...	24	59,938	60,795	70,000
Total	...	67,51,297	* 68,02,000	69,48,000	72,15,000

* ... 8,000 which represents 4 per cent. on sale-proceeds of tank-bed and ot

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.)				
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
Srivaikuntam 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	1,22,000	1,22,000
Kurnool-Cuddapah Canal. — *Deduct* Collection Charges	7,163	6,000	6,100	6,100
Kurnool-Cuddapah Canal. — Net Collections in the Revenue Department ...	1,36,106	1,14,000	1,15,900	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	1,22,550	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

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.				
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			,00
...	67,51,297	68,02,000	69,48,000	72,15,000

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.
	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
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
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.

IRRIGATION—*continued.*	Actual Realizations, 1897–98.	Budget Estimate, 1898–99.	Revised Estimate, 1898–99.	Budget Estimate, 1899–1900.
	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

* Rs. 8,000 which represents 4 per cent. on sale-proceeds of tank-bed and ot... to admit of its inclusion in the budg...

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	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 ...		1,44,008	99,000	78,105	31,000
42. WORKING EXPENSES.					
1. Extensions and improvements. In progress ... ... / Not commenced ... RS. 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 ... RS. 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

* 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.						
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	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).						
Gódávari 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	29,036	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	
Srívaikuntam 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.						
Works in Progress.						
Gódávari 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	2,25,900	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. 637 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.	...	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 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	...	...	5,00,000	5,60,000	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	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, 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	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
Total	5,[illegible]	

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.

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.

1899

Funds

Total ...

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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.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.
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				
...AL ...	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.	PAGES.	Rs.	Rs.	Rs.	Rs.
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.					
CAPITAL.					
1. Works ... { In progress ... ... Rs. 1,72,547 / Not commenced ... 1,54,404 }		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 ... Rs. ... / Not commenced 25,881 }		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 ... ... Rs. 64,500 / Not commenced ... 21,654 }		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 ... ... Rs. 53,276 / Not commenced ... 66,749 }		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	...

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.
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.	PAGES.	Rs.	Rs.	Rs.	Rs.
Works ... In progress ... ... Rs. 2,90,323		7,55,229	7,14,657	8,13,306	7,66,304
Works ... Not commenced 4,75,981					
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

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.)

Ag ~~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.

23. *Local Irrigation Cess Fund.*—The current year's revised estimate of expenditure is Rs. 4,430 more than the budget estimate. The increase represents the additional grant sanctioned during the year. The ensuing year's budget estimate of Rs. 9,000 is distributed as shown below :—

—	Original works.	Repairs.	Total.
	Rs.	Rs.	Rs.
Salem division	6,000	3,000	9,000

24. The total grant for "works," "repairs" and "compensation" under all heads, and the contribution to "45. Civil Works" on account of establishment and tools and plant charges are shown below :—

	1899-1900.	1898-99.
	Rs.	Rs.
Total grant for "works," "repairs" including compensation	35,35,016	35,08,608
Establishment—		
23 per cent. on expenditure	7,82,655	7,83,746
10 per cent. on direct revenue	34,710	35,110
6 per cent. on indirect revenue	6,71,832	6,59,589
Total ...	14,89,197	14,78,445
Tools and plant at 1½ per cent. on expenditure ...	21,786	21,291

25. The following statement shows the amounts provided for each division for land compensation under the several heads excepting "49. Capital Expenditure not charged to Revenue," particulars appertaining to which are shown in paragraph 11 :—

42. Major Works (Working Expenses).
Maintenance and Repairs.

	Rs.	Rs.
Gódávari Central division	10,000	
„ Western „	2,000	
Kistna „ „	1,000	
Trichinopoly division	270	
		13,270

43. Minor Works and Navigation.
Capital Account.

Ganjám division—		
Ganjám minor rivers system	500	
Kistna Northern division—		
Munuyeru project	4,500	
		5,000

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

Kistna Northern division	4,000	
		4,000

Agricultural Works.
Original Works.

Gódávari Eastern division	4,000	
„ Western „	2,000	
„ Central „	5,000	
		11,000
Total ...		33,270

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

10th February 1899.

A.—Statement showing the proposed grants for Original Works under Rs. 2,500 each and Repairs for 1899-1900 under Minor Works for which neither Capital nor Revenue Accounts are kept, Public Works Department.

Divisions.	Irrigation revenue for 1897-98.	Grant for 1899-1900.	
		Minor original works.	Repairs.
	Rs.	Rs.	Rs.
Ganjám	80,825	10,000	15,500
Vizagapatam	1,62,960	9,000	20,000
Gódávari, Eastern	99,659	6,000	13,000
„ Western		4,000	12,000
Kistna, Eastern	34,354	2,500	2,000
„ Northern		1,500	8,000
Nellore	2,17,157	3,000	22,500
Cuddapah	2,87,060	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	..	44,000	..
Total ..	..	1,58,400	4,04,400

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

B.—Statement showing the grants for Original Works below Rs. 2,500 each and Repairs under Agricultural Works for 1899-1900.

Divisions.	Minor original works.	Repairs.
	Rs.	Rs.
Ganjám	3,000	6,000
Vizagapatam	300	2,500
Gódávari, Eastral	...	40,000
„ Western	2,000	40,000
Ki...a, Eastern	1,000	9,000
„ Northern	...	20,000
„ Western	...	200
Nellore	...	1,00,000
Cuddapah	...	6,000
Coimbatore	...	4,000
Salem	...	5,000
Chingleput	...	936
South Arcot	...	9,000
Tanjore	1,600	6,900
Negapatam	500	58,200
Trichinopoly	2,000	10,000
Tinnevelly	...	30,000
		3,000
Total ...	10,400	3,50,736

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

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.
Gódávari 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
Tinnevelly	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 $1\frac{1}{2}$ 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 $\frac{1}{1}$ to $\frac{1}{0}\frac{3}{}$ 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 :—

Reserve—	Rs.
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.