ic Works (1897) Department.

G.O., No. 125-29

DATED 9. February 697

Public Works Department

Sheet

29/2/97

[Despatch Abstract.]

Budget Estimates: Re preliminary issue of the — for "Major Works" and "Minor Works & Navigation" for 1897-98 embodying the revised Estimates for 1896-97 as drawn up by the Chief Engr for India approved with remarks and ordered the forwarding to the Govt of India

Budget Estimates: Forwarding Resolution of the Secretary of State in Council "embodying the preliminary issue of the — for Major Works and "Minor Works & Navigation" for 1897-98 ~~& the Revised Estimates for 1896-97~~ and requesting that the approval of the Govt of India thereto may be communicated at an early date.

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IRRIGATION.
ACCOUNT.

Government {1897} of Madras.

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G.O., No. 125 I., 9th February 1897.

FEBRUARY.

Budget Estimates

The preliminary issue of the — for "Major Works" and "Minor Works and Navigation" for 1897–98, embodying the revised estimates for 1896–97 as drawn up by the Chief Engineer for Irrigation, approved with remarks and ordered to be forwarded to the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following paper:—

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 1897–98, embodying the revised estimates for 1896–97, works up to the Imperial grants provisionally sanctioned by the Government of India in its letter, No. 1 A.I., dated 7th January 1897, printed in Proceedings of Madras Government, No. 68 I., dated 20th idem, and to the Provincial and Local grants fixed in Proceedings of Madras Government, Nos. 890 and 30, Financial Department, dated 17th December 1896 and 14th January 1897, respectively, and Proceedings of Madras Government, No. 710, Revenue Department, dated 10th December 1896.

2. The budget estimates of receipts and expenditure for 1897–98 compare with the revised estimates for 1896–97 and the actuals of 1895–96 as shown below:—

	Budget estimate, 1897–98.	Revised estimate, 1896–97.	Budget estimate, 1896–97.	Actuals, 1895–96.
IMPERIAL.	Rs.	Rs.	Rs.	Rs.
Receipts.				
XXIX. Major works—				
Direct receipts	2,93,000	2,93,000	2,78,000	2,98,302
Portion of land revenue due to irrigation ..	67,63,000	63,68,000	67,28,000	58,26,126
Total ..	70,56,000	66,61,000	70,06,000	61,24,428
Expenditure.				
35. Protective Works, Irrigation	1 69,500	1,89,000	1,89,000	2,26,477
42. Major Works (Working Expenses)	13,70,000	15,69,500	12,80,000	13,16,103
49. Capital Expenditure not charged to Revenue ..	9,50,000	8,16,500	9,41,000	13,37,363
Total ..	24,89,500	25,75,000	24,10,000	28,79,943
PROVINCIAL.				
Receipts.				
XXX. Minor Works and Navigation—				
Direct receipts	1,60,000	1,60,000	1,70,000	1,55,840
EXPENDITURE.				
43. Minor Works and Navigation	30,50,000	37,80,800	38,95,000	31,82,954
33. Famine Relief	..	21,200	..	..
Total ..	30,50,000	38,02,000	38,95,000	31,82,954
LOCAL IRRIGATION CESS FUND.				
Expenditure.				
43. Minor Works and Navigation	9,500	12,444	8,000	27,415
Total .. { Receipts ..	72,16,000	68,21,000	71,76,000	62,80,268
Total .. { Expenditure ..	55,49,000	63,89,444	63,13,000	60,90,312

3. *Major works—Direct receipts.*—The current year's revised estimate is Rs. 15,000 more than the budget estimate, the former being based on the actuals of the previous year which exceeded the budget estimate of the current year. No increase is anticipated over the current year's revised estimate in the budget estimate for the ensuing year.

4. *Major works—Portion of Land Revenue due to Irrigation.*—The current year's revised estimate is Rs. 3,60,000 less than the budget estimate. The decrease occurs chiefly under the Gódávari delta system in consequence of the damages caused by floods, while under the Sangám anicut system irrigation has not extended to the extent anticipated. The budget estimate for next year is Rs. 3,95,000 more than the current year's revised estimate, the increase being chiefly due to the special remissions expected to be granted in the current year on account of damages caused by floods in the Gódávari delta system.

5. 35. *Protective Works, Irrigation.*—The current year's budget and revised estimates under this head are the same, but the ensuing year's budget expenditure is Rs. 19,500 less than the current year's revised estimate, the Government of India having provisionally assigned only Rs. 1,69,500. It is most probable that this amount will have to be augmented during the course of the year.

No. 65 A.I., printed in P.M.G., No. $\frac{739}{A}$ I., dated 28th August 1896.
No. 89 A.I., printed in P.M.G., No. 1021 I., dated 1st December 1896.
No. 100 A.I., printed in P.M.G., No. 33 I., dated 8th January 1897.
No. 3 A.I., printed in P.M.G., No. 99 I., dated 23rd January 1897.

6. 42. *Major Works—Working expenses.*—The current year's revised estimate is Rs. 2,89,500 more than the budget estimate. The increase represents the additional grants sanctioned by the Government of India in its telegrams marginally noted for the Gódávari, Kistna and Cauvery delta and the Srivaikuntam anicut systems.

In the schedule of demands printed in Proceedings of Madras Government No. 1051 I., dated 15th December 1896, Rs. 15,24,000 were applied for for expenditure during 1897–98, but only Rs. 13,70,000 having been sanctioned by the Government of India, the grants proposed for the Gódávari, Kistna and Cauvery delta systems and the Kurnool-Cuddapah Canal have been curtailed. It is apprehended that the reduction of grants will seriously affect the programme of work intended to be carried out in these systems. The Superintending Engineer, II Circle, in his endorsement, No. 2821 K.N., dated 8th January 1897, has already represented the necessity for supplementing the grants originally proposed by him for the Kistna delta system by Rs. 27,000 or Rs. 33,210 including the charge for establishment, the amount being absolutely required in the Kistna Northern division for working out the balances of several estimates prepared after the recent floods and for revetting the nose of the lock entrance at Bezwada.

7. The provisional grant of Rs. 13,70,000 for next year is distributed as shown below:—

	Extensions and improvements.	Maintenance and repairs.	Establishment. 23 per cent. on expenditure.	Establishment. 10 per cent. on direct revenue.	Establishment. 6 per cent. on irrigation revenue.	Tools and plant.	Total.
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Productive—							
Gódávari delta	21,000	1,96,435	49,665	11,100	1,62,300	39,500	4,80,000
Kistna ,, ...	19,000	2,81,024	68,776	5,360	1,50,840	50,000	5,75,000
Pennér anicut	— 1,103	10,140	2,078	70	8,820	— 5	20,000
Sangam ,, ...	3,630	18,116	5,002	60	10,200	— 8	37,000
Kurnool-Cuddapah Canal	8,000	60,732	15,808	980	7,080	1,600	94,200

—	Extensions and improvements.	Maintenance and repairs.	Establishment. 23 per cent. on expenditure.	Establishment. 10 per cent. on direct revenue.	Establishment. 6 per cent. on irrigation revenue.	Tools and plant.	Total.
1	2	3	4	5	6	7	8
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Barur tank	..	1,447	333	..	720	..	2,500
Cauvery delta	17,000	— 39,503	— 5,330	250	51,366	1,217	25,000
Srivaikuntam anicut	1,954	14,792	3,852	120	6,360	— 78	27,000
Periyar project	..	65,000	5,750	..	..	250	71,000
Protective.							
Rushikulya project	..	30,000	6,900	150	..	1,250	38,300
Total ..	69,481	6,38,183	1,52,834	18,090	3,97,686	93,726	13,70,000

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. 1,103 and Rs. 39,503, 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 1897–98 :—

Systems.	Divisions.	Extensions and improvements. Amount applied for.	Extensions and improvements. Amount provided.	Maintenance and repairs. Amount applied for.	Maintenance and repairs. Amount provided.	Tools and plant. Amount applied for.	Tools and plant. Amount provided.
1	2	3	4	5	6	7	8
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gódávari delta ..	Productive—						
	Eastern	8,000	8,000	77,300	60,000	31,500	31,500
	Central	3,000	3,000	65,000	55,000	3,000	3,000
	Western	10,000	10,000	1,02,500	81,435	5,000	5,000
	Total ..	21,000	21,000	2,44,800	1,96,435	39,500	39,500
Kistna delta ..	Eastern	16,000	16,000	1.62,100	1,32,000	5,500	5,500
	Northern	..	..	* 43,000	35,000	40,500	40,500
	Western	3,000	3,000	1,35,000	1,14,024	4,000	4,000
	Total ..	19,000	19,000	3,40,100	2,81,024	50,000	50,000
Pénner anicut ..	Nellore	2,500	2,461	24,000	24,000	..	..
	Deduct old Maintenance charges	3,564	3,564	13,860	13,860	5	5
	Net Total ..	— 1,064	— 1,103	10,140	10,140	— 5	— 5
Sangam anicut ..	Nellore	4,500	3,975	30,000	30,000	50	49
	Deduct old Maintenance charges	345	345	11,884	11,884	57	57
	Net Total ..	4,155	3,630	18,116	18,116	— 7	— 8
Kurnool-Cuddapah Canal.	Kurnool	12,000	8,000	65,000	60,732	1,600	1,600
Barur tank ..	Salem	..	..	1,500	1,447	..	..
Cauvery delta ..	Tanjore	12,000	12,000	45,000	39,831	2,500	2,500
	Negapatam	4,000	4,000	20,000	17,500	300	300
	Trichinopoly	1,000	1,000	10,000	8,800	20	20
	Total ..	17,000	17,000	75,000	66,131	2,820	2,820
	Deduct old maintenance charges	..	..	1,05,634	1,05,634	1,603	1,603
	Net Total ..	17,000	17,000	— 30,634	— 39,503	1,217	1,217

* Exclusive of Rs. 27,000 subsequently applied for.

Systems.	Divisions.	Extensions and improvements. Amount applied for.	Extensions and improvements. Amount provided.	Maintenance and repairs. Amount applied for.	Maintenance and repairs. Amount provided.	Tools and plant. Amount applied for.	Tools and plant. Amount provided.
1	2	3	4	5	6	7	8
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Srivaikuntam anicut.	Tinnevelly	2,000	2,306	20,000	20,000	..	..
	Deduct old maintenance charges	352	352	5,208	5,208	78	78
	Net Total ..	1,648	1,954	14,792	14,792	— 78	— 78
Periyár project ..	Madura	..	..	65,000	65,000	..	250
	Protective.						
Rushikuliya project.	Ganjám	..	..	30,000	30,000	1,250	1,250
	Grand Total ..	73,739	69,481	7,58,814	6,38,183	93,477	93,726

10. *Capital Expenditure not charged to Revenue*—49. *Irrigation.*—The current year's revised estimate is Rs. 1,24,500 less than the budget estimate. The decrease represents the surrender accepted by the Government of India in its letter, No. 71-A.I., dated 16th September 1896, printed in Proceedings of Madras Government, No. 787 I., dated 25th idem, and that reported in Proceedings of Madras Government, No. 109-A I., dated 29th January 1897.

11. The provisional grant of Rs. 9,50,000 sanctioned for next year is Rupees 1,33,500 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	..	680	..	..	..
	Central	..	2,185	..	..	..
	Western	..	1,200	..	..	..
	Total ..	..	4,065	935	..	5,000
Kistna delta ..	Eastern	20,000	83,260	..	5,000	..
	Northern	..	28,400	..	50,600	..
	Western	16,500	1,79,316	..	..	..
	Total ..	36,500	2,90,976	66,924	55,600	4,50,000
Kalingaroyan channel.	Coimbatore	..	80,081	18,419	1,500	1,00,000
Cauvery delta ..	Tanjore	..	1,16,260	26,740	..	1,43,000
Srivaikuntam anicut ..	Tinnevelly	..	1,626	374	..	2,000
Periyár project ..	Madura	..	2,02,439	46,561	1,000	2,50,000
	Total ..	36,500	6,95,447	1,59,953	58,100	9,50,000

In the schedule of demands printed in Proceedings of Madras Government, No. 1051 I., dated 15th December 1896, Rs. 12,47,000 were applied for for expenditure during 1897–98, but the provisional assignment sanctioned by the Government of India being Rs. 2,97,000 less, no amount has been allotted for the Pennér anicut system and the grants originally proposed for the other systems have been reduced in accordance with G.O., No. 68 I, dated 20th January 1897. The grant for the Gódávari system will have to be increased within the course of the year by transfer from the grants for other systems. 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.

12. The following statement compares the probable "direct" capital outlay to end of 1897–98 with the sanctioned estimates for the projects for which funds have been provided and for which the construction estimates have not yet been closed :—

Projects.	Sanctioned estimate.	Outlay to end of 1895-96.	Revised estimate, 1896-97.	Budget estimate, 1897-98.	Total.	Balance of estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Kistna delta	1,39,19,784	1,13,76,820	5,95,042	4,50,000	1,24,21,862	14,97,922
Periyár project	84,71,000	80,85,047	67,600	2,50,000	84,02,647	68,353
Kalingaroyan channel	8,25,000	..	..	1,00,000	1,00,000	7,25,000
Total ..	2,32,15,784	1,94,61,867	6,62,642	8,00,000	2,09,24,509	22,91,275

In Proceedings of Madras Government, No. 1089 I., dated 23rd December 1896, the sanction of the Government of India has been solicited to the extension of the sanction accorded to the estimate for the improvements to the Kalingaroyen channel for a period of five years commencing from the 31st January 1896.

13. *Provincial Minor Works and Navigation—Direct Receipts.*—The current year's revised estimate is Rs. 10,000 less than the budget estimate, the former being based on the actuals of the previous year, which fell short of the budget estimate of the current year. No increase is anticipated over the current year's revised estimate in the budget estimate for the ensuing year.

14 *Provincial Minor Works and Navigation.*—The current year's revised estimate is Rs. 1,14,200 less than the budget estimate, owing chiefly to funds provided for the Cooum Improvements Scheme having been surrendered owing to the non-sanction of the work pending submission of an estimate for the work on modified lines. The ensuing year's budget estimate is Rs. 7,30,800 less than the revised estimate for the current year. The decrease is due to provision having been made for the execution of a smaller number of works than during the current year, owing to the prospect of heavy losses anticipated by the Financial Department under the principal heads of revenue accompanied by extensive outlay on famine relief.

15. The assignment of Rs. 30·50 lakhs which is Rs. 4·50 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 (see paragraph 16)	4,37,000	
Revenue do. (do. 17)	2,80,000	
		7,17,000
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.		
Old Maintenance Charges of Major and Minor Works for which Capital and Revenue Accounts are kept (see paragraph 18)	4,26,136	
Ordinary works (see paragraph 19)	8,30,864	
Tank restoration works (see paragraph 21)	4,88,000	
Minor works, Revenue Department (see paragraph 23)	35,000	
		17,80,000
Agricultural works (see paragraph 22)	5,53,000	
		5,53,000
Total ...		30,50,000

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

Projects.	Amount of sanctioned estimate.	Outlay to end of 1895-96.	Probable outlay during 1896-97.	Budget estimate, 1897-98.					Total outlay.	Balance of estimate.
				Works.	Land.	Establishment.	Tools and plant.	Total.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Kurnool-Cuddapah canal ..	16,500	5,845	7,380	2,838	..	652	..	3,490	16,715	— 215
Munnyeru ..	3,38,000	1,44,566	1,59,900	81,000	..	18,630	400	1,00,030	4,04,496	— 36,496
Sagileru ..	3,61,000	2,68,171	1,40,700	40,000	..	9,200	..	49,200	4,38,071	— 77,071
Pálár anicut ..	20,06,790	19,51,936	9,840	11,024	5,150	2,536	..	18,710	19,80,486	26,304
Pelandorai anicut ..	90,440	2,401	32,273	42,951	..	9,879	..	52,830	87,504	2,936
Lower Coleroon anicut	3,65,710	47,397	1,11,165	89,707	..	20,633	..	1,10,340	2,68,902	96,808
Buckingham canal.	86,14,000	82,03,148	2,50,570	80,000	..	18,400	4,000	1,02,400	85,56,118	57,882
Total ..	..	..	..	3,47,520	5,150	79,930	4,400	4,37,000	..	..

The amounts provided for the Munnyeru and Sagileru projects involve an excess over the sanctioned estimates. The submission of the revised estimates for these projects should be expedited by the Superintending Engineers concerned.

The schedule of works which remained incomplete on the closure of the construction estimate of the Pálár anicut system will be shortly submitted to Government.

Owing to the reduction of the amount applied for for expenditure during 1897–98 no funds have been provided for the following works proposed by Superintending Engineers :—

	Amount applied for.
	Rs.
Sanctioned works—	
Sangam Anicut System—	
1. Diverting surplus of Kanigiri reservoir into Pyderu. (G.O., No. 407 I., dated 9th May 1896)...	1,00,000
2. Supply channel from the Pennér above Sangam anicut to Nellore tank and improving its distributaries (G.O., No. 458 I., dated 28th May 1896)	1,00,000
Unsanctioned works—	
Sangam Anicut System—	
3. Allur swamp irrigation channels	10,000
4. Minor channels	10,000
5. Inspection bungalow at Kanigiri reservoir	3,000
Cumbum tank system—	
6. Sirvel Project Govindapalli channel extension	5,000
7. Remodelling the Sekrailcutwa channel, second section ...	5,000
Ganjám minor rivers system—	
8. Improvements to channels	10,000
Cheyár Anicut system—	
9. Improvements to Iyalavadi and Chengathvearam channels.	8,500
Maradur Anicut system—	
10. Improving Maradur Melakal	5,000
Total ...	2,56,500

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

Divisions.	Systems.	Extensions and improvements.	Maintenance and repairs.	Establishment. 23 per cent. on expenditure.	Establishment. 10 per cent. on direct receipts.	Tools and plant.	Total.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjám ..	Ganjám minor rivers ..	..	10,000	2,300	..	..	12,300
Kurnool ..	Cumbum tank	500	1,500	460	..	..	2,460
Coimbatore ..	Thadapalli channel	1,996	2,900	1,126	8	..	6,030
	Arkénkota do.	1,000	902	438	..	..	2,340
	Kalingaroyen channel ..	..	1,901	437	12	..	2,350
North Arcot ..	Pálár anicut	3,822	17,095	7,497	130	— 4	40,220
Chingleput ..	Do.	3,280	8,400				
North Arcot ..	Poiney anicut	1,000	9,000	2,300	50	..	12,350
	Cheyár do.	3,000	12,000	3,450	20	..	18,470
Chingleput ..	Chembrambakam tank ..	— 2,083	— 92	— 500	14	— 109	— 2,770
	Madras Water-supply and Irrigation extension	— 3,600	2,299	— 299	1,250	— 10	— 360
	Vallur anicut	2,701	500	737	2	..	3,940
South Arcot ..	Tirukkóyilúr anicut	3,002	8,000	2,531	57	..	13,590
	Mehamattur anicut	500	1,000	345	5	..	1,850
	Vriddháchalam anicut ..	496	2,500	689	5	..	3,690
	Shatiatope anicut	2,000	10,000	2,760	30	..	14,790
	Pelandorai do.	438	2,942	777	25	— 2	4,180
	Lower Coleroon anicut ..	2,000	16,000	5,175	103	..	27,780
Tanjore ..	Do. do. ..	1,502	3,000				
Trichinopoly ..	Nandyar channel	..	7,610	1,750	..	..	9,360
Tinnevelly ..	Marudur anicut	993	13,000	3,218	29	..	17,240
Ganjám ..	Chilka lake canal	..	301	69	..	..	370
Negapatam ..	Vedáranniyam canal ..	..	5,065	1,165	120	..	6,350
Buckingham canal.	Buckingham canal	2,366	54,000	12,964	11,140	3,000	83,470
	Total ..	24,913	1,89,823	49,389	13,000	2,875	2,80,000

In all cases the amounts applied for by Superintending Engineers have been provided with slight modifications to round off totals.

18. *Old maintenance charges.*—The sum provided is Rs. 61,974 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. 33,97,900 (*vide* Proceedings of Madras Government, No. 1091 I., dated 26th December 1896).

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

	1897-98.	1896-97.
	Rs.	Rs.
Original works, major	66,132	1,29,655
Do. minor (see statement A)	2,30,827 *	1,31,800
Repairs (see statement A)	3,70,000	3,83,977
Total ...	6,66,959	6,45,432
Establishment at 23 per cent. on expenditure ...	1,53,400	1,47,414
Do. at 10 „ on direct revenue ...	500	500
Total ...	1,53,900	1,47,914
Tools and plant at 1½ per cent. on expenditure ...	10,005	9,614
Total ...	8,30,864	8,02,960

* Inclusive of a reserve of Rs. 1,06,827.

20. Under Original works—Major, funds have been provided for the following sanctioned works:—

	Amount provided. Rs.
Gódávari Western division—	
Diversion of Yerracalva and construction of masonry dams across it and Gudapalli channels	5,000
Kistna Northern division—	
Macherla tank	500
Ipur tank	12,000
Jonapad tank	10,712
Nellore division—	
Mopaud tank improvements	4,000
Budamgunta tank	2,500
Bellary division—	
Excavating a channel and constructing five syphon sluices for Gandiganur tank	2,010
Restoring the surplus weirs and raising banks of Apparazpett tank.	4,000
Improving Royalcheruvu tank	6,300
Kurnool division—	
Pedda and Chinna Mallalammal tank of Ramapuram	1,000
Coimbatore division—	
Constructing an aqueduct and bridge in lieu of Pungaliyur outlet on the Chithrachavady channel	2,870
South Arcot division—	
Cutting a channel from Ponniar river to irrigate lands in Tirukandesweram and other villages	2,700
Trichinopoly division—	
Reconstructing bridge on Road No. XX over Ponneri channel ...	3,360
Improvements to Kothamangalam tank	4,060
Madura division—	
Constructing an under tunnel at 3,200 feet from the head of Seeliampatty channel	710
Repairing and improving Athalai tank	2,590
Tinnevelly division—	
Improving Vadukachimathel tank and channel	1,820
Total ...	66,132

Owing to the curtailment of the grants applied for, the amounts proposed by Superintending Engineers for the following works for which estimates have not yet been sanctioned have not been provided:—

	Amount proposed. Rs.
Vizagapatam division—	
Mallapalem dam.—Cutting a new proposed head to Honjaram channel and clearing the old bed to Tamaram channel ...	3,000
Kistna Northern division—	
Atmakur tank	7,000
Nellore division—	
Tollapalem tank improvements	5,500
Kommalapudi do.	5,000
Vindur do.	3,000
Siddavaram do.	7,000
Tatiparti do.	6,000
Prabhagiripatnam do.	5,000
Kullur do.	3,000
Rayaguntapalem do.	2,900
Kurugonda do.	3,600
Gudur large do.	5,000
Challakalva L.B. do.	7,500
Bellary division—	
Siruguppa channel improvements	10,000

	Amount proposed.
	RS.
Kurnool division—	
Breaching Patha Cuddapah tank and constructing a channel with masonry works	5,000
Salem division—	
Excavating a new supply channel to Penugundapuram tank ...	5,000
Chingleput division—	
Improvements to Kinar tank	3,050
Trichinopoly division—	
Reconstructing Chintamony odai weir on the right bank of Ponneri channel	4,000
Madura division—	
Improving Thandalay tank	15,000
Tinnevelly division—	
Improvements to North Kodamelalaghiem channel	4,000
Singampatty Perungal	3,000
Valliyur channel	3,000
Total ...	1,15,550

21. *Tank Restoration Works.*—The amount provided for expenditure on tank restoration works has been distributed as shown below :—

Divisions.	Probable balance of sanctioned estimates on 1st April 1897.	Amounts applied for by Superintending Engineers.	Amounts provided.
	RS.	RS.	RS.
Gódávari Eastern	1,125	6,500	6,500
Kistna Northern	30,290	20,000	20,000
Salem	94,723	50,000	50,000
North Arcot	58,700	40,000	40,000
Chingleput	187,435	75,000	75,000
South Arcot	50,801	50,000	50,000
Negapatam	7,176	30,000	30,000
Madura	1,51,359	70,000	70,000
Tinnevelly	83,000	50,000	50,000
Total ..	..	3,91,500	3,91,500

22. The distribution of the amount of Rs. 5,53,000 provided for expenditure on agricultural works during next year compares with the current year's grants as shown below :—

	1897-98.	1896-97.
	RS.	RS.
Original works, major	59,420	1,14,846
Do. minor	17,700	76,503
Repairs	3,67,213	5,52,942
Establishment, at 23 per cent. on expenditure ...	99,667	1,66,012
Do. at 10 per cent. on direct receipts ...	2,500	2,500
Tools and plant, at 1½ per cent. on expenditure ...	6,500	10,827
Total ...	5,53,000	9,23,630

The major original works for which funds have been provided are enumerated in Part I of the Budget estimates for "43. Minor Works and Navigation." Funds

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

	Amount proposed.
	RS.
Gódávari Central division—	
Raising the Vasista left bank below 12½ miles, Gunnaram canal	10,000
Kistna Northern division—	
Raising the flood banks of the Kistna river above anicut ...	30,000
Kistna Western division—	
Raising the Kistna river right bank below the anicut	50,000
Tinnevelly division—	
Authur diversion right bank below Srívaikuntam anicut ...	20,000
Total ...	1,10,000

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

In his endorsment, No. 2824 K.N., dated 8th January 1897, the Superintending Engineer, II Circle, applied for a revised grant of Rs. 79,500 for the Kistna Northern division on the ground that the amount was required for working out the balance of several estimates prepared and sanctioned for the right and left embankments of the Kistna river. The demand has been reduced to its original amount, viz., Rs. 1,500. More will be required, but the demands must be reduced to a minimum and the additional grant obtained by transfer from the existing grant from other works. It is not certain that anything will be available from the reserve.

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

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

Superintending Engineers should make early application for the funds required for expenditure on sanctioned works to be executed by Public Works Department officers.

24. *Local Irrigation Cess Fund.*—The current year's revised estimate of expenditure exceeds the budget estimate by Rs. 4,444, the increase having been sanctioned chiefly for constructing an inspection shed at Jaderpalem in the Salem district. The budget estimate of Rs. 9,500 for next year is distributed as shown below :—

—	Original works.	Repairs.	Total.
	RS.	RS.	RS.
Salem division	5,500	2,000	7,500
Trichinopoly division ...	2,000	...	2,000
Total ...	7,500	2,000	9,500

25. 33. *Famine Relief.*—The requirements for the current year under the above head as estimated by the Superintending Engineers concerned are given below :—

	RS.
I Circle	2,000
III „	19,200
	21,200

The above amount has been provided by reducing the current year's grants under "43. Provincial—Minor Works and Navigation for which neither Capital nor Revenue Accounts are kept" as shown below:—

	Rs.
Vizagapatam division—	
Repairs	1,607
Bellary—	
Original works	6,500
Repairs	1,532
Cuddapah—	
Repairs	4,016
Kurnool—	
Repairs	3,373
	17,028
Establishment ...	3,917
Tools and Plant ...	255
Total ...	21,200

The amount required for expenditure for next year is estimated at Rs. 1,93,000,* but no provision has been made in the preliminary budget estimates pending a special assignment for the purpose from Provincial funds. With reference to telegram No. 46 A.C.W., dated 3rd February 1897, from the Government of India, communicated with G.O., No. 344 W., dated 5th idem, the grants for the current year under "33. Famine Relief" have been struck out from the budget estimates for "43. Minor Works and Navigation," with a view to the submission, as directed, of a separate budget under the former head.

	Rs.
* I Circle	1,68,000
Cuddapah division	10,000
Kurnool	5,000
Bellary	10,000
Total ...	1,93,000

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

	1897-98. Rs.	1896-97. Rs.
Total grant for works and repairs	38,39,738	45,83,042
Establishment—		
23 per cent. on expenditure	8,57,767	10,15,538
10 „ on direct revenue	34,090	34,090
6 „ on indirect revenue	6,33,480	6,07,740
Total ...	15,25,337	16,57,368
Tools and plant, at 1½ per cent. on expenditure ...	22,806	27,348

27. 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:—

35. Protective Works—Irrigation.
Rushikulya Project.

	Rs.	Rs.
Ganjám Division	5,000	
		5,000

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

	Rs.	Rs.
Gódávari Eastern Division	500	
„ Western „	1,000	
Kistna „ „	1,000	
Trichinopoly Division	670	
Madura Division	40,000	
		43,170

43. Minor Works and Navigation.
Capital Account.

North Arcot Division	5,150	

Agricultural Works.
Original Works.

Gódávari Central Division	4,000	
„ Western „	3,000	
Kistna Northern „	3,000	
„ Western „	1,000	
		16,150
Total ...		64,320

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

5th February 1897.

ENCLOSURES.

A.—STATEMENT showing the proposed grants for Minor original works under Rs. 2,500 each and repairs for 1897-98 under "Minor works for which neither Capital nor Revenue Accounts are kept, P.W.D."

Divisions.	Irrigation revenue for 1897-98.	Grant for 1897-98. Minor original works.	Grant for 1897-98. Repairs.
	Rs.	Rs.	Rs.
Ganjám	98,948	5,000	12,000
Vizagapatam	1,62,862	6,000	9,500
Gódávari Eastern	97,089	8,000	17,500
„ Central		..	..
„ Western		2,000	4,000
Kistna Eastern	54,271	..	6,000
„ Northern		1,500	4,000
„ Western		..	..
Nellore	2,96,364	15,500	26,000
Cuddapah	2,91,144	10,000	30,000
Kurnool	84,959	3,000	10,000
Bellary	3,74,831	5,000	30,000
West Coast	..	..	2,000
Coimbatore	3,23,203	6,000	12,000
Salem	1,50,390	4,000	12,000
North Arcot	2,43,075	15,000	25,000
Chingleput	6,22,544	10,000	35,000
South Arcot	3,81,293	10,000	35,000
Tanjore	45,162	1,000	2,000
Negapatam		..	..
Trichinopoly	4,43,278	10,000	25,000
Madura	3,50,035	6,000	37,000
Tinnevelly	7,60,651	6,000	36,000
Total ..	..	1,24,000	3,70,000
Reserve ..	..	1,06,827	..
Total ..	..	2,30,827	3,70,000

B.—STATEMENT showing the grants for Minor original works below Rs. 2,500 each and repairs under "Agricultural works" for 1897-98.

Divisions.	Minor original works. Rs.	Repairs. Rs.
Ganjám	3,000	6,000
Vizagapatam	300	2,500
Gódávari Eastern	...	20,000

Divisions.	Minor original works.	Repairs.
	Rs.	Rs.
Gódávari Central	1,000	65,000
Do. Western	3,000	16,000
Kistna Eastern	...	9,000
Do. Northern	...	1,588
Do. Western	...	1,00,000
Nellore	...	6,500
Buckingham Canal	...	7,000
Cuddapah	...	4,000
Coimbatore	3,500	6,500
Salem	...	625
Chingleput	500	1,500
South Arcot	400	6,000
Tanjore	2,000	60,000
Negapatam	2,000	20,000
Trichinopoly	2,000	25,000
Tinnevelly	...	10,000
Total ...	17,700	3,67,213

Order—No. 125 I., dated 9th February 1897.

The budget estimates preliminary issue for "Major Works" and "Minor Works and Navigation" for 1897–98, embodying the revised estimates for 1896–97 as drawn up by the Chief Engineer for Irrigation, are approved and will be forwarded to the Government of India. The distribution by divisions of the grants for minor original works and repairs proposed by him is also approved.

2. The modifications of allotments for the current year given in paragraph 25 are sanctioned.

3. The attention of the Superintending Engineers concerned is drawn to the remarks made in the foregoing note.

4. Ordered that the following letter be sent.

[Here enter No. 126 I., dated 9th February 1897.]

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

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

Exd. T. K. Narayana Aiyangar.

PRELIMINARY ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION-MAJOR WORKS

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1897-98.

Madras,
9th February 1897.

(Signed) W. HUGHES,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

CONTENTS.

	PAGE
BUDGET ESTIMATE OF REVENUE	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	6
DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
PART I.—Arranged by Projects	7
„ IV.—Detail of the Budget Estimate for Establishment	8
„ VI.—Detail of Estimate of Suspense Balances	10

GOVERNMENT OF MADRAS.

REVENUE.

Abstract Budget Estimate of Revenue expected from Irrigation—Major Works in the Madras Presidency for the year from 1st April 1897 to 31st March 1898.

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
IMPERIAL.				
MAJOR WORKS (DIRECT RECEIPTS). (PRODUCTIVE.)				
Gódávari Delta System, Collections in the Public Works Department.	1,09,978	1,20,000	1,14,000	1,11,000
Kistna Delta System do. do.	54,297	48,000	50,200	53,600
Pennéru Anicut System do. do.	709	400	700	700
Sangam Anicut System do. do.	551	600	600	600
Cauvery Delta System do. do.	2,524	3,500	2,700	2,500
Srívaikuntam Anicut System do. do.	1,110	1,000	1,200	1,200
Barur tank do. do.	39	...	...	...
Kurnool-Cuddapah Canal. Collections in the Revenue Department ...	1,26,155	97,895	1,18,000	1,18,000
Kurnool-Cuddapah Canal. *Deduct* Collection Charges	6,307	4,895	5,900	5,900
Kurnool-Cuddapah Canal. Net Collections in the Revenue Department ...	1,19,848	93,000	1,12,100	1,12,100
Kurnool-Cuddapah Canal. Collections in the Public Works Department...	8,713	10,000	10,000	9,800
Total ...	1,28,561	1,03,000	1,22,100	1,21,900
(PROTECTIVE.)				
Rushikulya, Collections in the Public Works Department. ...	533	1,500	1,500	1,500
Total ...	2,98,302	2,78,000	2,93,000	2,93,000

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, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Gódávari Delta—				
Irrigation Revenue	24,47,457	28,80,000	25,29,000	28,29,000
Deduct Revenue due to old Irrigation	1,24,000	1,24,000	1,24,000	1,24,000
Revenue due to the System	23,23,457	27,56,000	24,05,000	27,05,000
Share of enhanced Land Revenue	1,47,726	1,70,000	1,54,400	1,54,400
Total ...	24,71,183	29,26,000	25,59,400	28,59,400
Deduct Collection Charges in the Civil Department	1,23,559	1,46,300	1,28,400	1,43,400
Net Revenue ...	23,47,624	27,79,700	24,31,000	27,16,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	849	1,300	1,000	1,000
Total ...	23,48,473	27,81,000	24,32,000	27,17,000
Kistna Delta—				
Irrigation Revenue	20,92,295	24,30,000	25,10,000	25,85,000
Deduct Revenue due to old Irrigation	71,000	71,000	71,000	71,000
Revenue due to the System	20,21,295	23,59,000	24,39,000	25,14,000
Share of enhanced Land Revenue	1,40,888	1,80,000	1,90,000	2,00,000
Total ...	21,62,183	25,39,000	26,29,000	27,14,000
Deduct Collection Charges in the Civil Department	1,08,109	1,27,000	1,31,000	1,36,000
Net Revenue ...	20,54,074	24,12,000	24,98,000	25,78,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	5,632	10,000	10,000	10,000
Total ...	20,59,706	24,22,000	25,08,000	25,88,000
Pennéru Anicut—				
Irrigation Revenue	2,63,848	2,63,000	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	1,46,848	1,46,000	1,47,000	1,47,000
Share of enhanced Land Revenue	20,509	20,000	21,000	21,000
Total ...	1,67,357	1,66,000	1,68,000	1,68,000
Deduct Collection Charges in the Civil Department	8,368	8,300	8,400	8,400
Net Revenue ...	1,58,989	1,57,700	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	522	300	400	400
Total ...	1,59,511	1,58,000	1,60,000	1,60,000

GOVERNMENT OF MADRAS.

REVENUE—continued.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Sangam Anicut—				
Irrigation Revenue	3,07,687	4,01,000	3,08,000	3,09,000
Deduct Revenue due to old Irrigation	1,39,000	1,39,000	1,39,000	1,39,000
Revenue due to the System	1,68,687	2,62,000	1,69,000	1,70,000
Share of enhanced Land Revenue	16,292	22,000	16,000	16,500
Total	1,84,979	2,84,000	1,85,000	1,86,500
Deduct Collection Charges in the Civil Department	9,249	14,000	9,300	9,200
Net Revenue	1,75,730	2,70,000	1,75,700	1,77,300
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	6,277	6,000	6,300	6,700
Total	1,82,007	2,76,000	1,82,000	1,84,000
Cauvery Delta—				
Irrigation Revenue	44,35,373	41,50,000	42,03,000	42,54,000
Deduct Revenue due to old Irrigation	35,44,111	33,17,000	33,56,000	33,97,900
Revenue due to the System	8,91,262	8,33,000	8,47,000	8,56,100
Share of enhanced Land Revenue	1,10,520	1,17,000	1,10,950	1,12,000
Total	10,01,782	9,50,000	9,57,950	9,68,100
Deduct Collection Charges in the Civil Department	50,089	48,000	47,950	48,100
Net Revenue	9,51,693	9,02,000	9,10,000	9,20,000
Srivaikuntam Anicut—				
Irrigation Revenue	1,56,738	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	77,738	1,06,000	1,06,000	1,06,000
Share of enhanced Land Revenue	1,805	2,000	2,000	2,000
Total	79,543	1,08,000	1,08,000	1,08,000
Deduct Collection Charges in the Civil Department	3,977	5,000	5,000	5,000
Net Revenue	75,566	1,03,000	1,03,000	1,03,000

GOVERNMENT OF MADRAS.

REVENUE—continued.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Barur Tank—				
Irrigation Revenue	11,022	14,000	12,000	14,000
Deduct Revenue due to old Irrigation	2,000	2,000	2,000	2,000
Revenue due to the System	9,022	12,000	10,000	12,000
Share of enhanced Land Revenue	30	...	...	...
Total	9,052	12,000	10,000	12,000
Deduct Collection Charges in the Civil Department	453	1,000	1,000	1,000
Net Revenue	8,599	11,000	9,000	11,000
Kurnool-Cuddapah Canal—				
Share of enhanced Land Revenue under tanks owing to supply of canal water	4,956	8,400	6,300	6,300
Deduct Collection Charges in the Civil Department	248	400	300	300
Net Revenue	4,708	8,000	6,000	6,000
Rushikulya Project—				
Irrigation Revenue	63,535	1,00,000	90,000	1,10,000
Deduct Revenue due to old Irrigation	25,816	30,000	30,000	33,000
Revenue due to the System	37,719	70,000	60,000	77,000
Share of enhanced Land Revenue	32	150	150	200
Total	37,751	70,150	60,150	77,200
Deduct Collection Charges in the Civil Department	1,888	3,950	2,950	4,200
Net Revenue	35,863	66,200	57,200	73,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	...	800	800	1,000
Total	35,863	67,000	58,000	74,000
Total—				
Irrigation Revenue	97,77,955	1,04,23,000	1,01,01,000	1,05,50,000
Deduct Revenue due to old Irrigation	41,01,927	38,79,000	39,18,000	39,62,900
Revenue due to the System	56,76,028	65,44,000	61,83,000	65,87,100
Share of enhanced Land Revenue	4,42,758	5,19,550	5,00,800	5,12,400
Total	61,18,786	70,63,550	66,83,800	70,99,500
Deduct Collection Charges in the Civil Department	3,05,940	3,53,950	3,34,300	3,55,600
Net Revenue	58,12,846	67,09,600	63,49,500	67,43,900
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	13,280	18,400	18,500	19,100
Total	58,26,126	67,28,000	63,68,000	67,63,000

GOVERNMENT OF MADRAS.

CHARGES.

Abstract Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year from 1st April 1897 to 31st March 1898.

	Reference to Detailed Estimate.	Actual Outlay, 1895–96.	Budget Estimate, 1896–97.	Revised Estimate, 1896–97.	Budget Estimate, 1897–98.
	Pages.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.					
MAJOR (PROTECTIVE) WORKS.					
Famine Relief and Insurance.					
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.					
1. Works ... ... In progress ... Rs. 55,000 / Not commenced. 83,618		1,92,432	1,53,646	1,55,528	1,38,618
2. Establishment		38,392	33,039	33,472	30,732
3. Tools and plant		— 3,595	2,315	...	150
5. Receipts on capital account		— 752	...	...	...
Total ...		2,26,477	1,89,000	1,89,000	1,69,500
42. (WORKING EXPENSES).					
1. Extensions and improvements. In progress ... ... / Not commenced ... Rs. 69,481		65,124	57,712	62,624	69,481
2. Maintenance and repairs		6,29,765	5,71,224	8,19,965	6,38,183
3. Establishment		5,14,080	5,56,121	5,89,566	5,68,610
4. Tools and plant		1,06,914	94,943	97,345	93,726
5. Refunds of revenue		220	...	...	...
Total, Working Expenses ...		13,16,103	12,80,000	15,69,500	13,70,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.					
49. IRRIGATION.					
1. Works ... ... In progress ... Rs. 2,79,079 / Not commenced ... 4,52,868		10,64,874	7,46,752	6,95,535	7,31,947
2. Establishment		2,37,963	1,62,518	1,49,933	1,59,953
3. Tools and plant		36,915	31,730	— 28,968	58,100
5. Receipts on capital account		— 2,389	...	...	...
Total, Capital Expenditure ...		13,37,363	9,41,000	8,16,500	9,50,000

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1897–98, arranged by Projects and Objects of Work.

IMPERIAL.	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
MAJOR (PROTECTIVE) WORKS.						
Famine Relief and Insurance.	Rs.	Rs.	Rs.	Rs.	Rs.	
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
Capital Account.						
Rushikulya Project	43,68,000	39,07,154	1,89,000	1,89,000	1,69,500	Government of India register No. 7 I. of 1894–95. Proceedings of Madras Govt. No. 846 I. of 7th November 1894.
42. MAJOR WORKS (WORKING EXPENSES).						
Gódávari Delta	...	...	5,30,000	5,13,990	4,80,000	
Kistna do.	...	...	5,26,000	7,41,020	5,75,000	
Pennéru Anicut	...	...	19,000	19,140	20,000	
Sangam do.	...	...	43,000	37,370	37,000	
Kurnool-Cuddapah Canal ...	...	...	86,000	87,206	94,200	
Barur Tank Project	...	...	3,800	3,680	2,500	
Cauvery Delta	...	...	18,200	48,160	25,000	
Srívaikuntam Anicut ...	...	...	24,000	68,300	27,000	
Periyár Project	...	...	...	20,134	71,000	
Rushikulya Project	...	...	30,000	30,500	38,300	
Total ...	...	...	12,80,000	15,69,500	13,70,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION.						
Works in Progress.						
Gódávari Delta System ...	1,13,84,155	1,09,32,065	84,000	80,204	5,000	P.M.G. No. 876 I., dated 24th October 1896, No. 464 I., dated 29th May 1896, No. 507 I., dated 12th June 1896, No. 618 I., dated 29th July 1896, No. 649 I., dated 5th August 1896, No. 7 I., dated 4th January 1897 and No. 14 I., dated 5th January 1897.
Kistna Delta do. ...	1,39,19,784	1,13,76,820	5,75,000	5,95,042	4,50,000	Government of India register No. 8 I. of 1884–85. P.M.G. No. 862 I., dated 22nd Sept. 1894. Government of India letter No. 10 I. of 22nd Jan. 1889, P.M.G. No. 62 I. of 11th Feb. 1889, No. 857 I. of 11th Oct. 1893 and No. 34 I. of 17th Jan. 1894.
Cauvery Delta	17,80,101	16,87,283	76,100	46,448	1,43,000	P.M.G. No. 876 I., dated 24th October 1896, No. 473 I., dated 4th June 1896, No. 514 I., dated 16th June 1896, No. 663 I., dated 11th August 1896, No. 667 I., dated 11th August 1896, No. 919 I., dated 3rd November 1896, No. 937 I., dated 10th November 1896, No. 1086 I., dated 23rd December 1896 and No. 77 I., dated 20th January 1897.
Srívaikuntam Anicut ...	13,77,561	13,61,847	13,100	1,415	2,000	P.M.G. No. 876 I., dated 24th October 1896 and No. 852 I., dated 22nd October 1896.
Periyár Project	84,71,000	80,85,047	1,63,100	67,600	2,50,000	Government of India register No. 10 I. of 1894–95. P.M.G. No. 1057 I., dated 22nd December 1894.
Works not commenced.						
Kalingaroyen Channel ...	8,25,000	...	...	...	1,00,000	Government of India register No. 2 I. of 1890–91. P.M.G. No. 279 I., dated 21st March 1891 and No. 1089 I., dated 23rd December 1896.
Total ...	...	...	...	...	9,50,000	

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1897–98.

	Budget Estimate, 1897–98.	Revised Estimate, 1896–97.
	Rs.	Rs.
IMPERIAL.		
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works	1,38,618	1,55,528
Deduct item for which no charge for Establishment is admissible.		
Compensation for land	5,000	10,000
Net Grant ...	1,33,618	1,45,528
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	30,732	33,472
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs	7,07,664	8,82,589
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Gódávari Delta System	1,500	5,000
Do. do. Kistna do.	1,000	500
Do. do. Cauvery do.	670	360
Rent payable to the Travancore Government under the Periyár lease	40,000	20,134
Total ...	43,170	25,994
Net Grant ...	6,64,494	8,56,595
A. 23 per cent. on the Net Grant	1,52,834	1,97,016
Direct Revenue	2,93,000	2,93,000
Deduct estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,12,100	1,12,100
Net Direct Revenue ...	1,80,900	1,80,900
B. 10 per cent. on Net Direct Revenue	18,090	18,090
Irrigation Revenue from Major (Productive) Works exclusive of enhanced share of Land Revenue	65,10,100	61,23,000
Add estimated collections in the Revenue Department of water-rates levied on land irrigated under the Kurnool-Cuddapah Canal	1,18,000	1,18,000
Total ...	66,28,100	62,41,000

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 1897–98—continued.

	Budget Estimate, 1897–98.	Revised Estimate, 1896–97.
	Rs.	Rs.
C. 6 per cent. on Irrigation Revenue	3,97,686	3,74,460
Total, A + B + C ...	5,68,610	5,89,566
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	7,31,947	6,95,535
Deduct item for which no charge for Establishment is admissible.		
Land compensation	36,500	43,651
Net Grant ...	6,95,447	6,51,884
Contribution to Provincial Funds at 23 per cent. on Net Grant ...	1,59,953	1,49,933

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 1897–98—Nil.

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

MINOR WORKS AND NAVIGATION.

PRELIMINARY ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION MINOR WORKS AND NAVIGATION

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1897-98.

MADRAS,
9th February 1897.

(Signed) W. HUGHES,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

CONTENTS.

	PAGE
ABSTRACT BUDGET ESTIMATE OF REVENUE	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	3
DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
PART I.—Arranged by Projects	5
,, IV.—Detail of the Budget Estimate for Establishment	8
,, VI.—Detail of Estimate of Suspense Balances	9

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 1897 to 31st March 1898.

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
PROVINCIAL.				
IRRIGATION AND NAVIGATION WORKS.				
Works for which Capital and Revenue Accounts are kept.				
Thadapalli Channel System	89	80	80	80
Arkenkotta Channel System	6	...	...	...
Kalingaroyen Channel System	157	420	420	120
Pálár Anicut System	2,156	1,540	1,300	1,300
Poiney Anicut System	226	600	600	500
Cheyáru Anicut System	258	200	200	200
Chembrambakam Tank System	140	30	180	140
Madras Water-supply and Irrigation Extension	10,103	13,380	13,500	12,500
Valluru Anicut System	21	...	20	20
Tirukkóyilúr Anicut System	378	570	570	570
Mehamattur Anicut System	47	30	50	50
Vriddhachalam Anicut System	130	50	50	50
Shatiatope Anicut System	215	300	300	300
Pelandorai Anicut System	105	250	250	250
Lower Coleroon Anicut System	1,024	1,000	1,030	1,030
Maradur Anicut System	197	350	250	290
Buckingham Canal	1,08,383	1,10,000	1,10,000	1,11,400
Védáranniyam Canal	1,136	1,200	1,200	1,200
Total	1,24,771	1,30,000	1,30,000	1,30,000
Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	6,830	10,000	5,000	5,000
AGRICULTURAL WORKS.				
Works for which neither Capital nor Revenue Accounts are kept	24,239	30,000	25,000	25,000
TOTAL	1,55,840	1,70,000	1,60,000	1,60,000

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 1897 to 31st March 1898.

	Reference to Detailed Estimate.	Actual Outlay, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
PROVINCIAL.	Pages.	Rs.	Rs.	Rs.	Rs.
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.					
CAPITAL.					
1. Works ... In progress ... ... Rs. 2,93,545		4,93,224	9,22,858	5,67,515	3,52,670
1. Works ... Not commenced ... Rs. 59,125					
2. Establishment		1,06,799	1,78,019	1,24,236	79,930
3. Tools and Plant		17,360	21,733	47,566	4,400
Receipts on capital account		—1,392	...	...	
Total, Capital		6,15,991	11,22,610	7,39,317	4,37,000
REVENUE.					
1. Extensions and Improvements. In progress ... Rs. ...		21,540	22,659	31,653	24,913
1. Extensions and Improvements. Not commenced Rs. 24,913					
2. Maintenance and Repairs		1,93,695	1,72,209	2,13,144	1,89,823
3. Establishment		60,473	57,819	69,302	62,389
4. Tools and Plant		4,851	3,875	3,875	2,875
Refunds of Revenue		133	...	...	
Total, Revenue		2,80,692	2,56,562	3,17,974	2,80,000
Total Minor Works for which Capital and Revenue Accounts are kept		8,96,683	13,79,172	10,57,291	7,17,000
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works—Major ... In progress ... ... Rs. 52,212		1,16,669	1,09,000	1,29,655	66,132
1. Works—Major ... Not commenced ... Rs. 13,920					
Minor		1,686	2,13,857	1,58,073	2,69,320
2. Repairs		10,79,110	10,34,051	9,71,414	9,04,818
3. Establishment		5,47,928	5,42,994	5,22,348	5,21,556
4. Tools and Plant		18,224	19,856	18,389	18,174
Refunds of Revenue		101	...	...	
Total Minor Works for which neither Capital nor Revenue Accounts are kept		17,63,718	19,19,758	17,99,879	17,80,000
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works—Major ... In progress ... Rs. 59,420		98,015	92,500	1,14,846	59,420
1. Works—Major ... Not commenced					
Minor		13,277	13,900	76,503	17,700
2. Repairs		3,13,998	3,74,389	5,52,942	3,67,213
3. Establishment		90,819	1,08,407	1,68,512	1,02,167
4. Tools and Plant		6,108	6,874	10,827	6,500
Refunds of Revenue		336	...	...	
Total, Agricultural Works		5,22,553	5,96,070	9,23,630	5,53,000
Total, Provincial		31,82,954	38,95,000	37,80,800	30,50,000

GOVERNMENT OF MADRAS.

CHARGES—continued.

Abstract Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year from 1st April 1897 to 31st March 1898—continued.

	Reference to Detailed Estimate.	Actual Outlay, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	PAGES.	Rs.	Rs.	Rs.	Rs.
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.					
Works ... In progress ... ... Rs. 4,05,177		7,44,411	13,74,774	10,78,245	7,90,155
Works ... Not commenced 3,84,978					
Repairs		15,86,803	15,80,649	17,37,500	14,61,854
Establishment		8,06,019	8,87,239	8,84,398	7,66,042
Tools and Plant		46,543	52,338	80,657	31,949
Refunds of Revenue		570	...	...	...
Receipts on capital account		—1,392	...	...	...
Total, Provincial ...		31,82,954	38,95,000	37,80,800	30,50,000
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		7,253	3,000	6,000	7,500
II. Repairs		20,162	5,000	6,444	2,000
Total ...		27,415	8,000	12,444	9,500

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 1897-98, arranged by Projects and Objects of Work.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895-96.	Budget Estimate, 1896-97.	Probable Outlay during 1896-97 (Revised Estimate).	Budget Estimate, 1897-98.	Remarks and References.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which Capital and Revenue Accounts are kept.						
CAPITAL.						
Works in Progress.						
Kurnool-Cuddapah Canal ...	19,350	5,345	18,450	13,899	3,490	P.M.G. No. 766 I., dated 20th September 1895, and No. 1098 I., dated 19th December 1895.
Munnyeru Project	3,68,000	1,44,566	1,23,000	1,59,900	1,00,030	P.M.G. No. 1089 I., dated 17th December 1893, and No. 497 I., dated 12th June 1896.
Sagiléru Project	3,61,000	2,68,171	1,10,700	1,10,700	49,200	P.M.G. No. 10 I., dated 9th January 1894, and No. 915 I., dated 21st November 1894.
Pálár Anicut System	20,06,790	19,51,936	12,300	9,840	18,710	Government of India Register No. 17 I. of 1884-85. *Vide* P.M.G. No. 83 I., dated 30th January 1891; No. 1002 I., dated 17th November 1893; No. 1053 I., dated 2nd December 1893; and No. 652 I., dated 14th August 1895; No. 84 I., dated 23rd January 1896; No. 303 I., dated 31st March 1896.
Pelandorai Anicut System ...	90,440	2,401	...	32,273	52,830	P.M.G. No. 378 I., dated 9th May 1894; No. 1088 I., dated 18th December 1895; No. 301 I., dated 31st March 1896, and No. 551 I., dated 2nd July 1896.
Lower Coleroon Anicut System.	3,65,710	47,397	78,720	1,11,165	1,10,340	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, and No. 555 I., dated 3rd July 1896.
Buckingham Canal	86,14,000	82,03,148	1,50,140	2,50,570	1,02,400	Government of India Register No. 15 I. of 1883-84; P.M.G. No. 3 I., dated 8th January 1895.
Other Projects	...	...	...	50,970	...	
Total, Capital ..	...	...	...	7,39,317	4,37,000	
REVENUE.						
Ganjám Minor Rivers System ...	...	...	3,690	12,300	12,300	
Cumbum Tank System ...	...	...	2,460	2,460	2,460	
Thadapalli Channel System ...	...	...	4,300	8,605	6,030	
Arkenkotta do. do. ...	...	...	1,840	3,198	2,340	
Kalingaroyen do. do. ...	...	...	2,500	4,960	2,350	
Pálár Anicut System	...	...	43,602	58,757	40,220	
Poiney do. do.	...	...	12,360	9,900	12,350	
Cheyáru do. do.	...	...	16,010	24,155	18,470	
Chembrambakam Tank System.	...	...	— 2,040	— 2,109	— 2,770	
Madras Water-supply and Irrigation Extension.	...	...	— 270	2,817	— 360	
Valluru Anicut System ...	...	...	900	656	3,940	
Tirukkóyilúr Anicut System ...	...	...	12,350	12,350	13,590	

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 1897–98, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION—*continued.*						
Minor Works for which Capital and Revenue Accounts are kept—continued.						
REVENUE—*cont.*						
Mehamattur Anicut System ...	...	...	1,850	4,927	1,850	
Vriddhachalam Anicut System...	...	...	3,700	5,545	3,690	
Shatiatope Anicut System ...	...	...	14,660	14,660	14,790	
Pelandorai do. do. ...	...	...	4,190	12,800	4,180	
Lower Coleroon Anicut System.	...	...	28,390	33,584	27,780	
Nandyar Channel System ...	...	...	5,050	745	9,360	
Maradur Anicut System ...	...	...	11,110	14,790	17,240	
Chilka Lake Canal	...	...	370	370	370	
Buckingham Canal	...	...	85,110	85,614	83,470	
Védáranniyam Canal	...	...	4,430	6,890	6,350	
Total, Revenue ..	...	...	2,56,562	3,17,974	2,80,000	
Total, Minor Works for which Capital and Revenue Accounts are kept	...	...	13,79,172	10,57,291	7,17,000	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
Old maintenance charges ...	...	...	4,21,282	4,23,622	4,26,136	
Ordinary Minor Works ...	...	...	7,90,946	8,02,960	8,30,864	
Tank Restoration Works—						
Execution	...	...	6,77,530	5,38,297	4,88,000	
Minor Works, Revenue Department.	...	...	30,000	35,000	35,000	
Total ...	...	...	19,19,758	17,99,879	17,80,000	
Total, Irrigation and Navigation Works	...	...	32,98,930	28,57,170	24,97,000	
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Raising the Vasista Gódávari right bank from head to Chinchinada.	72,800	15,826	30,000	35,596	21,378	P.M.G., No. 56 I., dated 19th January 1893.

GOVERNMENT OF MADRAS.

CHARGES.

Part I—continued.

Details of the Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madr as Presidency for the year 1897–98, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS —*continued.*						
Works for which neither Capital nor Revenue Accounts are kept —continued.						
MAJOR ORIGINAL WORKS—*cont.*						
In Progress—cont.						
Raising the Kistna river left bank below the anicut.	78,300	23,498	10,000	10,000	35,892	P.M.G. No. 278 I., dated 28th March 1893.
Raising Mudicondanar both banks from road No. 15 to eastern limit of Kumbakónam bridge.	5,150	...	...	3,000	2,150	P.M.G. No. 402 I., dated 7th May 1896.
Total, Major Original Works ...	...	...	...	...	59,420	
Minor Original Works	...	...	...	...	17,700	
Repairs	...	...	...	...	3,67,213	
Establishment	...	...	...	...	1,02,167	
Tools and Plant	...	...	...	...	6,500	
Total, Agricultural Works ...	...	...	...	...	5,53,000	
Total, Provincial ...	...	...	...	...	30,50,000	
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	...	...	8,000	12,444	9,500	
Total ...	...	...	8,000	12,444	9,500	

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1897–98.

Particulars.	Budget Estimate for 1897–98. Per mensem.	Per annum.	Total.	Revised Estimate for 1896–97.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
43. Minor Works and Navigation.				
PROVINCIAL.				
Grant for works and repairs	...	...	22,52,009	28,15,745
Deduct items on which no charge for establishment is admissible—				
Grant for land compensation	...	...	16,150	54,360
Net Grant for Works and Repairs ...	...	...	22,35,859	27,61,385
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	...	...	5,14,248	6,35,118
Estimate of Direct Revenue	...	...	1,60,000	1,60,000
B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	...	...	16,000	16,000
Revenue due to old Irrigation under Major Productive Works.	...	...	39,29,900	38,88,000
C. Share of the Public Works establishment at 6 per cent. on Revenue.	...	...	2,35,794	2,33,280
Total, A + B + C ...	...	...	7,66,042	8,84,398
Total, Establishment Charges ...	...	...	7,66,042	8,84,398

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 1897–98—Nil.

—

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

Ag. No. 125 Irg-2-97

Print very emergently

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read & Ack

UNDER date the

READ the following

Note with Draft adopted

Note by the Chief Engr. for Irrigation, No. Irg

The budget estimates preliminary issued for "Major Works" & "Minor Works & Navigation" for 1897-98, embodying the revised estimates for 1896-97, as drawn up by the Chief Engr. for Irrigation, are approved & will be forwarded to the Govt of India. The distribution by divisions of the grants for Minor original works & repairs proposed by him is also ap-

Issue sharp. A.S.H

W.H

J.

Please approve the addition now made in para 15(c) 257 F.S. 28c

8.2.97

8.2.97

A.S.H

proved.

2. The modifications of allotments for the current year given in para 25 are sanctioned

A.S.H

3. The attention of the Supdg Engrs concerned is drawn to the remarks made in the foregoing Note.

4. Ordered that the following letter be sent:-

A.S.H 6.5.97

No 1263 P.W. Dated 6th May 97

To The Secretary to the Govt of India. P.W.D.

Sir,

In forwarding a copy of Supdg No. 125 I. & C. dated 5th Feb 1897, together with the preliminary issue of the budget estimates of the Irrigation Branch for "Major works" & "Minor works & Navigation" for 1897-98, I am directed to request that the approval of the Govt of India thereto may be communicated at an early date.

W.H. 5.2.97

Dated 13/2/97

P 16/2

To be printed & issued immediately so as to reach the Govt of India on or before the 15 Feb 1897.

To The Chief Engr for I. All Supdg Engrs Supdg Engr on special duty, C. C Estimates Sr. D.W.S. Rep Dept. Fin Dept.

LCB 11/2/97 B.D.

E. I. Form No. 1—500—3-12-96.

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

1897-98.

MADRAS,
~~January~~ 1897.

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

CONTENTS.

	PAGE
BUDGET ESTIMATE OF REVENUE	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	6
DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
PART I.—Arranged by Projects	7
„ IV.—Detail of the Budget Estimate for Establishment	8
„ VI.—Detail of Estimate of Suspense Balances	10

GOVERNMENT OF MADRAS.

REVENUE.

Abstract Budget Estimate of Revenue expected from Irrigation—Major Works in the Madras Presidency for the year from 1st April 1897 to 31st March 1898.

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
IMPERIAL.				
MAJOR (PRODUCTIVE) WORKS (DIRECT RECEIPTS).				
Gódávari Delta System, Collections in the Public Works Department.	1,09,978	1,20,000	1,14,000	1,11,000
Kistna Delta System do. do.	54,297	48,000	50,200	53,600
Pennéru Anicut System do. do.	709	400	700	700
Sangam Anicut System do. do.	551	600	600	600
Cauvery Delta System do. do.	2,524	3,500	2,700	2,500
Srívaikuntam Anicut System do. do.	1,110	1,000	1,200	1,200
Barur tank do. do.	39	...	...	...
Rushikulya do. do.	533	1,500	1,500	1,500
Kurnool-Cuddapah Canal. — Collections in the Revenue Department ...	1,26,155	97,895	1,18,000	1,18,000
Kurnool-Cuddapah Canal. — *Deduct* Collection Charges	6,307	4,895	5,900	5,900
Kurnool-Cuddapah Canal. — Net Collections in the Revenue Department ...	1,19,848	93,000	1,12,100	1,12,100
Kurnool-Cuddapah Canal. — Collections in the Public Works Department...	8,713	10,000	10,000	9,800
Kurnool-Cuddapah Canal. — Total ...	1,28,561	1,03,000	1,22,100	1,21,900
(Protective)				
Total ...	2,98,302	2,78,000	2,93,000	2,93,000

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, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Gódávari Delta—				
Irrigation Revenue	24,47,457	28,80,000	25,29,000	28,29,000
Deduct Revenue due to old Irrigation	1,24,000	1,24,000	1,24,000	1,24,000
Revenue due to the System	23,23,457	27,56,000	24,05,000	27,05,000
Share of enhanced Land Revenue	1,47,726	1,70,000	1,54,400	1,54,400
Total ...	24,71,183	29,26,000	25,59,400	28,59,400
Deduct Collection Charges in the Civil Department	1,23,559	1,46,300	1,28,400	1,43,400
Net Revenue ...	23,47,624	27,79,700	24,31,000	27,16,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	849	1,300	1,000	1,000
Total ...	23,48,473	27,81,000	24,32,000	27,17,000
Kistna Delta—				
Irrigation Revenue	20,92,295	24,30,000	25,10,000	25,85,000
Deduct Revenue due to old Irrigation	71,000	71,000	71,000	71,000
Revenue due to the System	20,21,295	23,59,000	24,39,000	25,14,000
Share of enhanced Land Revenue	1,40,888	1,80,000	1,90,000	2,00,000
Total ...	21,62,183	25,39,000	26,29,000	27,14,000
Deduct Collection Charges in the Civil Department	1,08,109	1,27,000	1,31,000	1,36,000
Net Revenue ...	20,54,074	24,12,000	24,98,000	25,78,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	5,632	10,000	10,000	10,000
Total ...	20,59,706	24,22,000	25,08,000	25,88,000
Pennéru Anicut—				
Irrigation Revenue	2,63,848	2,63,000	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	1,46,848	1,46,000	1,47,000	1,47,000
Share of enhanced Land Revenue	20,509	20,000	21,000	21,000
Total ...	1,67,357	1,66,000	1,68,000	1,68,000
Deduct Collection Charges in the Civil Department	8,368	8,300	8,400	8,400
Net Revenue ...	1,58,989	1,57,700	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	522	300	400	400
Total ...	1,59,511	1,58,000	1,60,000	1,60,000

GOVERNMENT OF MADRAS.

REVENUE—continued.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Sangam Anicut—				
Irrigation Revenue	3,07,687	4,01,000	3,08,000	3,09,000
Deduct Revenue due to old Irrigation	1,39,000	1,39,000	1,39,000	1,39,000
Revenue due to the System	1,68,687	2,62,000	1,69,000	1,70,000
Share of enhanced Land Revenue	16,292	22,000	16,000	16,500
Total	1,84,979	2,84,000	1,85,000	1,86,500
Deduct Collection Charges in the Civil Department	9,249	14,000	9,300	9,200
Net Revenue	1,75,730	2,70,000	1,75,700	1,77,300
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	6,277	6,000	6,300	6,700
Total	1,82,007	2,76,000	1,82,000	1,84,000
Cauvery Delta—				
Irrigation Revenue	~~41,89,580~~ 4435373	41,50,000	42,03,000	42,54,000
Deduct Revenue due to old Irrigation	~~33,47,582~~ 3544111	33,17,000	33,56,000	33,97,900
Revenue due to the System	~~8,41,998~~ 891262	8,33,000	8,47,000	8,56,100
Share of enhanced Land Revenue	~~1,09,650~~ 110520	1,17,000	1,10,950	1,12,000
Total	~~9,51,648~~ 1001782	9,50,000	9,57,950	9,68,100
Deduct Collection Charges in the Civil Department	~~47,582~~ 50089	48,000	47,950	48,100
Net Revenue	~~9,04,066~~ 951693	9,02,000	9,10,000	9,20,000
Srivaikuntam Anicut—				
Irrigation Revenue	1,56,738	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	77,738	1,06,000	1,06,000	1,06,000
Share of enhanced Land Revenue	1,805	2,000	2,000	2,000
Total	79,543	1,08,000	1,08,000	1,08,000
Deduct Collection Charges in the Civil Department	3,977	5,000	5,000	5,000
Net Revenue	75,566	1,03,000	1,03,000	1,03,000

6

GOVERNMENT OF MADRAS.

REVENUE—continued.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Barur Tank—				
Irrigation Revenue	11,022	14,000	12,000	14,000
Deduct Revenue due to old Irrigation	2,000	2,000	2,000	2,000
Revenue due to the System	9,022	12,000	10,000	12,000
Share of enhanced Land Revenue	30	...	...	...
Total	9,052	12,000	10,000	12,000
Deduct Collection Charges in the Civil Department	453	1,000	1,000	1,000
Net Revenue	8,599	11,000	9,000	11,000
Kurnool-Cuddapah Canal—				
Share of enhanced Land Revenue under tanks owing to supply of canal water	~~4,676~~ 4956	8,400	6,300	6,300
Deduct Collection Charges in the Civil Department	~~234~~ 248	400	300	300
Net Revenue	~~4,442~~ 4708	8,000	6,000	6,000
Rushikulya Project—				
Irrigation Revenue	63,535	1,00,000	90,000	1,10,000
Deduct Revenue due to old Irrigation	25,816	30,000	30,000	33,000
Revenue due to the System	37,719	70,000	60,000	77,000
Share of enhanced Land Revenue	32	150	150	200
Total	37,751	70,150	60,150	77,200
Deduct Collection Charges in the Civil Department	1,888	3,950	2,950	4,200
Net Revenue	35,863	66,200	57,200	73,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	...	800	800	1,000
Total	35,863	67,000	58,000	74,000
Total—				
Irrigation Revenue	~~95,32,119~~ 9777955	1,04,23,000	1,01,01,000	1,05,50,000
Deduct Revenue due to old Irrigation	~~30,05,348~~ 4101927	38,79,000	39,18,000	39,62,900
Revenue due to the System	~~56,26,764~~ 5676028	65,44,000	61,83,000	65,87,100
Share of enhanced Land Revenue	~~1,41,608~~ 442758	5,19,550	5,00,800	5,12,400
Total	~~57,68,372~~ 6118786	70,63,550	66,83,800	70,99,500
Deduct Collection Charges in the Civil Department	~~3,03,419~~ 305940	3,53,950	3,34,300	3,55,600
Net Revenue	~~54,64,953~~ 5812846	67,09,600	63,49,500	67,43,900
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	13,280	18,400	18,500	19,100
Total	~~57,78,233~~ 5826126	67,28,000	63,68,000	67,63,000

GOVERNMENT OF MADRAS.

CHARGES.

Abstract Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year from 1st April 1897 to 31st March 1898.

	Reference to Detailed Estimate.	Actual Outlay, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
IMPERIAL.					
MAJOR (PROTECTIVE) WORKS.	PAGES.	Rs.	Rs.	Rs.	Rs.
Famine Relief and Insurance.					
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.					
1. Works ... ... In progress ... Rs. 55,000; Not commenced. 83,618		1,92,432	1,53,646	1,55,528	1,38,618
2. Establishment		38,392	33,039	33,472	30,732
3. Tools and plant		— 3,595	2,315	...	150
5. Receipts on capital account		— 752	...	...	...
Total ...		2,26,477	1,89,000	1,89,000	1,69,500
42. (WORKING EXPENSES).					
1. Extensions and improvements. In progress ... ... Not commenced ... Rs. 69,481		65,124	57,712	62,624	69,481
2. Maintenance and repairs		6,29,765	5,71,224	8,19,965	6,38,183
3. Establishment		5,14,080	5,56,121	5,89,566	5,68,610
4. Tools and plant		1,06,914	94,943	97,345	93,726
5. Refunds of revenue		220	...	...	...
Total, Working Expenses ...		13,16,103	12,80,000	15,69,500	13,70,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.					
49. IRRIGATION.					
1. Works ... ... In progress ... Rs. 2,79,079; Not commenced ... 4,52,868		10,64,874	7,46,752	6,95,535	7,31,947
2. Establishment		2,37,963	1,62,518	1,49,933	1,59,953
3. Tools and plant		36,915	31,730	— 28,968	58,100
4. Suspense account		...	...	...	...
5. Receipts on capital account		— 2,389	...	...	...
Total, Capital Expenditure ..		13,37,363	9,41,000	8,16,500	9,50,000

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

Details of the Budget Estimate of Expenditure on Irrigation—Major Works in the Madras Presidency for the year 1897-98, arranged by Projects and Objects of Work.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895-96.	Budget Estimate, 1896-97.	Probable Outlay during 1893-97 (Revised Estimate).	Budget Estimate, 1897-98.	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	43,68,000	39,07,154	1,89,000	1,89,000	1,69,500	Government of India register No. 7 I. of 1894-95. Proceedings of Madras Govt. No. 846 I. of 7th November 1894.
42. (WORKING EXPENSES).						
Gódávari Delta	...	...	5,30,000	5,13,990	4,80,000	
Kistna do.	...	...	5,26,000	7,41,020	5,75,000	
Pennéru Anicut	...	...	19,000	19,140	20,000	
Sangam do.	...	...	43,000	37,370	37,000	
Kurnool-Cuddapah Canal ...	...	...	86,000	87,206	94,200	
Barur Tank Project	...	...	3,800	3,680	2,500	
Cauvery Delta	...	...	18,200	48,160	25,000	
Srívaikuntam Anicut ...	...	...	24,000	68,300	27,000	
Periyár Project	...	...	...	20,134	71,000	
Rushikulya Project	...	...	30,000	30,500	38,300	
Total ...	...	...	12,80,000	15,69,500	13,70,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION.						
Works in Progress.						
Gódávari Delta System ...	1,13,84,155	1,09,32,065	84,000	80,204	5,000	P.M.G. No. 876 I., dated 24th October 1896, No. 464 I., dated 29th May 1896, No. 507 I., dated 12th June 1896, No. 618 I., dated 29th July 1896, No. 649 I., dated 5th August 1896, No. 7 I., dated 4th January 1897 and No. 14 I., dated 5th January 1897.
Kistna Delta do. ...	1,39,19,784	1,13,76,8..0	5,75,000	5,95,042	4,50,000	Government of India regitser No. 8 I. of 1884-85. P.M.G. No. 862 I., dated 22nd Sept. 1894. Government of India letter No. 10 I. of 22nd Jan. 1889, P.M.G. No. 62 I. of 11th Feb. 1889, No. 857 I. of 11th Oct. 1893 and No. 34 I. of 17th Jan. 1894.
Kalingaroyen Channel ...	8,25,000	...	...	...	1,00,000	Government of India register No. 2 I. of 1890-91. P.M.G. No. 279 I., dated 21st March 1891 and No. 1089 I., dated 23rd December 1896.
Cauvery Delta	17,80,101	16,87,283	76,100	46,448	1,43,000	P.M.G. No. 876 I., dated 24th October 1896, No. 473 I., dated 4th June 1896, No. 514 I., dated 16th June 1896, No. 663 I., dated 11th August 1896, No. 667 I., dated 11th August 1896, No. 919 I., dated 3rd November 1896, No. 937 I., dated 10th November 1896, No. 1086 I., dated 23rd December 1896 and No. 77 I., dated 20th January 1897.
Srívaikuntam Anicut ...	13,77,561	13,61,847	13,100	1,415	2,000	P.G.M. No. 876 I., dated 24th October 1896 and No. 852 I., dated 22nd October 1896.
Periyár Project	84,71,000	80,85,047	1,63,100	67,600	2,50,000	Government of India register No. 10 I. of 1894-95. P.M.G. No. 1057 I., dated 22nd December 1894.
Total ...	...	...	...	...	9,50,000	

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1897–98.

——	Budget Estimate, 1897–98.	Revised Estimate, 1896–97.
	Rs.	Rs.
IMPERIAL.		
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works	1,38,618	1,55,528
Deduct item for which no charge for Establishment is admissible.		
Compensation for land	5,000	10,000
Net Grant ...	1,33,618	1,45,528
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	30,732	33,472
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs	7,07,664	8,82,589
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Gódávari Delta System	1,500	5,000
Do. do. Kistna do.	1,000	500
Do. do. Cauvery do.	670	360
Rent payable to the Travancore Government under the Periyár lease	40,000	20,134
Total ..	43,170	25,994
Net Grant ..	6,64,494	8,56,595
A. 23 per cent. on the Net Grant	1,52,834	1,97,016
Direct Revenue	2,93,000	2,93,000
Deduct estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,12,100	1,12,100
Net Direct Revenue ...	1,80,900	1,80,900
B. 10 per cent. on Net Direct Revenue	18,090	18,090
Irrigation Revenue from Major (Productive) Works exclusive of enhanced share of Land Revenue	65,10,100	61,23,000
Add estimated collections in the Revenue Department of water-rates levied on land irrigated under the Kurnool-Cuddapah Canal	1,18,000	1,18,000
Total ...	66,28,100	62,41,000

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 1897–98—continued.

——	Budget Estimate, 1897–98.	Revised Estimate, 1896–97.
	Rs.	Rs.
C. 6 per cent. on Irrigation Revenue	3,97,686	3,74,460
Total, A + B + C ...	5,68,610	5,89,566
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	7,31,947	6,95,535
Deduct item for which no charge for Establishment is admissible.		
Land compensation	36,500	43,651
Net Grant ...	6,95,447	6,51,884
Contribution to Provincial Funds at 23 per cent. on Net Grant ...	1,59,953	1,49,933

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 1897–98—Nil.

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

MINOR WORKS AND NAVIGATION.

310/2 & Nos

Please correct & Return 10/8/97

PRELIMINARY ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION MINOR WORKS AND NAVIGATION

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1897-98.

MADRAS,
January 1897.

9th February

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

CONTENTS.

	PAGE
ABSTRACT BUDGET ESTIMATE OF REVENUE	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	3
DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
PART I.—Arranged by Projects	5
„ IV.—Detail of the Budget Estimate for Establishment	8
„ VI.—Detail of Estimate of Suspense Balances	9

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 1897 to 31st March 1898.

	Actual Realizations, 1895–96.	Budget Estimate, 1896–97.	Revised Estimate, 1896–97.	Budget Estimate, 1897–98.
	Rs.	Rs.	Rs.	Rs.
PROVINCIAL.				
IRRIGATION AND NAVIGATION WORKS.				
Works for which Capital and Revenue Accounts are kept.				
Thadapalli Channel System	89	80	80	80
Arkenkotta Channel System	6	...	...	...
Kalingaroyen Channel System	157	420	420	120
Pálár Anicut System	2,156	1,540	1,300	1,300
Poiney Anicut System	226	600	600	500
Cheyáru Anicut System	258	200	200	200
Chembrambakam Tank System	140	30	180	140
Madras Water-supply and Irrigation Extension	10,103	13,380	13,500	12,500
Valluru Anicut System	21	...	20	20
Tirukkóyilúr Anicut System	378	570	570	570
Mehamattur Anicut System	47	30	50	50
Vriddhachalam Anicut System	130	50	50	50
Shatiatope Anicut System	215	300	300	300
Pelandorai Anicut System	105	250	250	250
Lower Coleroon Anicut System	1,024	1,000	1,030	1,030
Maradur Anicut System	197	350	250	290
Buckingham Canal	1,08,383	1,10,000	1,10,000	1,11,400
Védáranniyam Canal	1,136	1,200	1,200	1,200
Total ..	1,24,771	1,30,000	1,30,000	1,30,000
Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	6,830	10,000	5,000	5,000
AGRICULTURAL WORKS.				
Works for which neither Capital nor Revenue Accounts are kept	24,239	30,000	25,000	25,000
TOTAL ..	1,55,840	1,70,000	1,60,000	1,60,000

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 1897 to 31st March 1898.

	Reference to Detailed Estimate.	Actual Outlay, 1895–96.	Budget Estimate, 1896–97.	Revised Estimate, 1896–97.	Budget Estimate, 1897–98.
	PAGES.	Rs.	Rs.	Rs.	Rs.
PROVINCIAL.					
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.					
CAPITAL.					
1. Works ... In progress ... Rs. 2,93,545; Not commenced ... Rs. 59,125		4,93,224	9,22,858	5,67,515	3,52,670
2. Establishment		1,06,799	1,78,019	1,24,236	79,930
3. Tools and Plant		17,360	21,733	47,566	4,400
Receipts on capital account		—1,392	...	...	
Total, Capital ...		6,15,991	11,22,610	7,39,317	4,37,000
REVENUE.					
Extensions and Improvements. In progress ... ; Not commenced Rs. 24,913		21,540	22,659	31,653	24,913
2. Maintenance and Repairs		1,93,695	1,72,209	2,13,144	1,89,823
3. Establishment		60,473	57,819	69,302	62,389
4. Tools and Plant		4,851	3,875	3,875	2,875
Refunds of Revenue		133	...	...	
Total, Revenue ...		2,80,692	2,56,562	3,17,974	2,80,000
Total Minor Works for which Capital and Revenue Accounts are kept		8,96,683	13,79,172	10,57,291	7,17,000
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works—Major ... In progress ... Rs. 52,212 — 50,632; Not commenced 13,920 — 6,500		1,16,669	1,09,000	1,29,655	66,132
Minor		1,686	2,13,857	1,58,073	2,69,320
2. Repairs		10,79,110	10,34,051	9,71,414	9,04,818
3. Establishment		5,47,928	5,42,994	5,22,348	5,21,556
4. Tools and Plant		18,224	19,856	18,389	18,174
Refunds of Revenue		101	...	...	
Total Minor Works for which neither Capital nor Revenue Accounts are kept		17,63,718	19,19,758	17,99,879	17,80,000
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works—Major ... In progress ... Rs. 59,420; Not commenced ...		98,015	92,500	1,14,846	59,420
Minor		13,277	13,900	76,503	17,700 1,77,000
2. Repairs		3,13,998	3,74,389	5,52,942	3,67,213
3. Establishment		99,819	1,08,407	1,68,512	1,02,167
4. Tools and Plant		6,108	6,874	10,827	6,500
Refunds of Revenue		336	...	...	
Total, Agricultural Works ...		5,22,553	5,96,070	9,23,630	5,53,000
Total, Provincial ..		31,82,954	38,95,000	37,80,300	30,50,000

GOVERNMENT OF MADRAS.

CHARGES—continued.

Abstract Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year from 1st April 1897 to 31st March 1898—continued.

	Reference to Detailed Estimate.	Actual Outlay, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	PAGES.	Rs.	Rs.	Rs.	Rs.
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.					
Works ... In progress ... ... (405177) 4,08,597		7,44,411	13,74,774	10,78,245	7,90,155
Works ... Not commenced ... ... (384978) 3,81,558					
Repairs		15,86,803	15,80,649	17,37,500	14,61,854
Establishment		8,06,019	8,87,239	8,84,398	7,66,042
Tools and Plant		46,543	52,338	80,657	31,949
Refunds of Revenue		570	...	...	...
Receipts on capital account		—1,392	...	...	...
Total, Provincial ...		31,82,954	38,95,000	37,80,800	30,50,000
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		7,253	3,000	6,000	7,500
II. Repairs		20,162	5,000	6,444	2,000
Total ...		27,415	8,000	12,444	9,500
33. FAMINE RELIEF.					
PROVINCIAL.					
Minor Works for which neither Capital nor Revenue Accounts are kept.					
Repairs		...	...	21,200	...

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 1897-98, arranged by Projects and Objects of Work.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895-96.	Budget Estimate, 1896-97.	Probable Outlay during 1896-97 (Revised Estimate).	Budget Estimate, 1897-98.	Remarks and References.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which Capital and Revenue Accounts are kept.						
CAPITAL.						
Works in Progress.						
Kurnool-Cuddapah Canal ...	19,350	5,345	18,450	13,899	3,490	P.M.G. No. 766 I., dated 20th September 1895, and No. 1098 I., dated 19th December 1895.
Munnyeru Project	3,68,000	1,44,566	1,23,000	1,59,900	1,00,030	P.M.G. No. 1089 I., dated 17th December 1893, and No. 497 I., dated 12th June 1896.
Sagiléru Project	3,61,000	2,68,171	1,10,700	1,10,700	49,200	P.M.G. No. 10 I., dated 9th January 1894, and No. 915 I., dated 21st November 1894.
Pálár Anicut System	20,06,790	19,51,936	12,300	9,840	18,710	Government of India Register No. 17 I. of 1884-85. *Vide* P.M.G. No. 83 I., dated 30th January 1891; No. 1002 I., dated 17th November 1893; No. 1053 I., dated 2nd December 1893; and No. 652 I., dated 14th August 1895; No. 84 I., dated 23rd January 1896; No. 303 I., dated 31st March 1896.
Pelandorai Anicut System ...	90,440	2,401	...	32,273	52,830	P.M.G. No. 378 I., dated 9th May 1894; No. 1088 I., dated 18th December 1895; No. 301 I., dated 31st March 1896, and No. 551 I., dated 2nd July 1896.
Lower Coleroon Anicut System.	3,65,710	47,397	78,720	1,11,165	1,10,340	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, and No. 555 I., dated 3rd July 1896.
Buckingham Canal	86,14,000	82,03,148	1,50,140	2,50,570	1,02,400	Government of India Register No. 15 I. of 1883-84; P.M.G. No. 3 I., dated 8th January 1895.
Other Projects	...	...	...	50,970	...	
Total, Capital ..	...	...	...	7,39,317	4,37,000	
REVENUE.						
Ganjám Minor Rivers System ...	...	...	3,690	12,300	12,300	
Cumbum Tank System ...	...	...	2,460	2,460	2,460	
Thadapalli Channel System ...	...	...	4,300	8,605	6,030	
Arkenkotta do. do. ...	...	...	1,840	3,198	2,340	
Kalingaroyen do. do. ...	...	...	2,500	4,960	2,350	
Pálár Anicut System	...	...	43,602	58,757	40,220	
Poiney do. do.	...	...	12,360	9,900	12,350	
Cheyáru do. do.	...	...	16,010	24,155	18,470	
Chembrambakam Tank System.	...	...	— 2,040	— 2,109	— 2,770	
Madras Water-supply and Irrigation Extension.	...	...	— 270	2,817	— 360	
Valluru Anicut System ...	...	...	900	656	3,940	
Tirukkóyilúr Anicut System ...	...	...	12,350	12,350	13,590	

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 1897–98, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION—*continued.*						
Minor Works for which Capital and Revenue Accounts are kept—continued.						
REVENUE—*cont.*						
Mehamattur Anicut System ...	...	...	1,850	4,927	1,850	
Vriddhachalam Anicut System...	...	...	3,700	5,545	3,060	
Shatiatope Anicut System ...	...	...	14,660	14,660	14,790	
Pelandorai do. do. ...	...	...	4,190	12,800	4,180	
Lower Coleroon Anicut System.	...	...	28,390	33,584	27,780	
Nandyar Channel System.	...	...	5,050	745	9,360	
Maradur Anicut System ...	...	...	11,110	14,790	17,240	
Chilka Lake Canal	...	...	370	370	370	
Buckingham Canal	...	...	85,110	85,614	83,470	
Védáranniyam Canal	...	...	4,430	6,890	6,350	
Total, Revenue ..	...	...	2,56,562	3,17,974	2,80,000	
Total, Minor Works for which Capital and Revenue Accounts are kept	...	...	13,79,172	10,57,291	7,17,000	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
Old maintenance charges ...	...	...	4,21,282	4,23,622	4,26,136	
Ordinary Minor Works ...	...	...	7,90,946	8,02,960	8,30,864	
Tank Restoration Works—Execution	...	...	6,77,530	5,38,297	4,88,000	
Minor Works, Revenue Department.	...	...	30,000	35,000	35,000	
Total ...	...	...	19,19,758	17,99,879	17,80,000	
Total, Irrigation and Navigation Works	...	...	32,98,930	28,57,170	24,97,000	
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Raising the Vasista right bank from head to Chinchinada.	72,800	15,826	30,000	35,596	21,378	P.M.G., No. 56 I., dated 19th January 1893.

GOVERNMENT OF MADRAS.

CHARGES.

Part I—continued.

Details of the Budget Estimate of Expenditure on Irrigation Minor Works and Navigation in the Madras Presidency for the year 1897–98, *arranged by Projects and Objects of Work*—continued.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS—*continued.*						
Works for which neither Capital nor Revenue Accounts are kept—continued.						
MAJOR ORIGINAL WORKS—*cont.*						
In Progress—cont.						
Raising the Kistna river left bank below the anicut.	78,300	23,498	10,000	10,000	35,892	P.M.G. No. 278 I., dated 28th March 1893.
Raising Mudicondanar both banks from road No. 15 to eastern limit of Kumbakónam bridge.	5,150	...	...	3,000	2,150	P.M.G. No. 402 I., dated 7th May 1896.
Total, Major Original Works ...	...	...	...	...	59,120	
Minor Original Works	...	...	...	...	17,700	
Repairs	...	...	...	...	3,67,213	
Establishment	...	...	...	...	1,02,167	
Tools and Plant	...	...	...	...	6,500	
Total, Agricultural Works ...	...	...	...	...	5,53,000	
Total, Provincial ...	...	...	...	...	30,50,000	
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept.	...	...	8,000	12,444	9,500	
Total ...	...	...	8,000	12,444	9,500	
35. FAMINE RELIEF.						
Provincial.						
Minor Works for which neither Capital nor Revenue Accounts are kept.	...	...	...	21,200	...	
Total ...	...	...	...	21,200	...	

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

Detail of the Budget Estimate for Establishment of the Irrigation Branch in the Madras Presidency for the year 1897–98.

Particulars.	Budget Estimate for 1897–98. Per mensem.	Per annum.	Total.	Revised Estimate for 1896–97.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
43. Minor Works and Navigation.				
PROVINCIAL.				
Grant for works and repairs	...	...	22,52,009	28,15,745
Deduct items on which no charge for establishment is admissible—				
Grant for land compensation	...	...	16,150	54,360
Net Grant for Works and Repairs ...	...	...	22,35,859	27,61,385
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	...	...	5,14,248	6,35,118
Estimate of Direct Revenue	...	...	1,60,000	1,60,000
B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	...	...	16,000	16,000
Revenue due to old Irrigation under Major Productive Works.	...	...	39,29,900	38,88,000
C. Share of the Public Works establishment at 6 per cent. on Revenue.	...	...	2,35,794	2,33,280
Total, A + B + C ...	...	...	7,66,042	8,84,398
Total, Establishment Charges ...	...	...	7,66,042	8,84,398

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 1897–98—Nil.

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

Public Works (1897) Deptt... Current No: 1439

Note by the Chief Engr. for Irrigation

Recd: 9-2-97

Enclos: One.

The accompanying preliminary issue of the budget estimates of the Irrigation Branch, Public Works Department, under Imperial, Provincial & Local for 1897-98, embodying the revised estimates for 1896-97, works up to the Imperial grants provisionally sanctioned by the Govt of India in its letter, No. 1 A.I., dd 7th Jan 1897, printed in P. Mlg No. 68 I, dd 25th idem, & to the Provincial & Local grants fixed in P. Mlg Nos. 890 & 30 Fin. Deptt.

dt 17th Dec/96 & 14th Jan/97 respectively, & Secy. No. 710, Revl. Dept, dt 10th Dec. 196.

2. The budget estimates of receipts & expenditure for 1897-98 compare with the revised estimates for 1896-97 & the actuals of 1895-96 as shown below:-

	Budget Estimate 1897-98	Revised Estimate 1896-97	Budget Estimate 1896-97	Actuals 1895-96
	Rs	Rs	Rs	Rs.
Imperial				
Receipts -				
XXIX. Major Works -				
Direct receipts . .	2,93,000	2,93,000	2,75,000	2,98,302
Portion of land revenue due to irrigation . .	67,63,000	63,68,000	67,28,000	58,26,126 ~~57,75,423~~
Total	70,56,000	66,61,000	70,06,000	~~60,76,525~~ 61,24,428
Expenditure -				
35. Protective Works, Irrigation	169,500	189,000	189,000	226,477
42. Major Works (Working Expenses)	13,70,000	15,69,500	12,80,000	13,16,103
49. Capital Expenditure not charged to Rev -	9,50,000	816,500	941,000	13,37,363
Total	24,89,500	25,75,000	24,10,000	28,79,943

Provincial

Receipts -

XXX. Minor Works Majr.

Direct receipts . . . 160,000 160,000 170,000 135,820

Expenditure -

43. Minor Works Majr . . 30,50,000 37,80,800 38,95,000 31,82,954

43. Famine Relief . . . - 21,200 - -

Total 30,50,000 38,02,000 38,95,000 31,82,954

Local Irrigation Cess Fund

Expenditure -

43. Minor Works Majr . . 9500 12,444 8000 27,445

Total {Receipts . . 72,16,000 68,21,000 71,76,000 ~~62,34,385~~ 62,80,268

{Expenditure . . 55,49,000 63,89,444 63,13,000 60,90,312

3. **Major Works.**

Direct receipts. The current year's revised estimate is Rs 15,000 more than the budget estimate, the former being based on the actuals of the previous year which exceeded the budget estimate of the current year. No increase is anticipated over the current year's revised estimate in the budget

estimate for the ensuing year.

4. Major works. Portion of Land Revn due to Irrigation. The current year's revised estimate is Rs 3,60,000 less than the budget estimate. The decrease occurs chiefly under the Godavari delta system in consequence of the damages caused by floods, while under the Sangam anicut system irrigation has not extended to the extent anticipated. The budget estimate for next year is Rs 3,95,000 more than the current year's revised estimate, the

increase being chiefly due to the special remissions expected to be granted in the current year on account of damages caused by floods in the Godavari delta system.

5. 35. Protective works, Irrigation. The current year's budget & revised estimates under this head are the same, but the ensuing year's budget expenditure is Rs 19,500 less than the current year's revised estimate, the Govt of India having provisionally assigned only Rs 1,69,500. It is most probable that this amount will have to

is be augmented during the course of the year.

4. 6. 42 Major Works. (Working Expenses). The current years revised estimate is Rs 2,89,500 more than the budget estimate. The increase represents the additional grants sanctioned by the Govt of India in its telegrams marginally noted for the Godavari, Kistna & Cauvery delta & the Periyakulam Vaigai systems.

In the schedule of demands printed in P.W.J. No. 1057 I, dt 15th Dec 1896, Rs 15,24,000 were applied for for expenditure during 1897-98 but only Rs 13,70,000

No. 65 a. I. printed in P.W.J. No. 739 I dt 28 Aug 1896 A
" 89 a. I. printed in P.W.J. No. 1021 I dt 1 Dec 1896
" 100 a I, printed in P.W.J. No. 33 I dt 8 Jany 1897.
" 3 a. I, printed in P.W.J. No. 99 I dt 23 Jany 1897.

having been sanctioned by the Govt of India, the grants proposed for the Godavari, Kistna & Cauvery delta systems & the Kurnool-Cuddapah Canal have been curtailed. It is apprehended that the reduction of grants will seriously affect the programme of work intended to be carried out in these systems. The Supdg Engr, II Circle, in his endorsement, No. 2824 K.M., dt 8th Jan 1897. has already represented the necessity for supplementing the grants originally proposed by him for the Kistna delta system by Rs 27,000

or Rs 33,210 including the charges for establishment, the amount being absolutely required in the Kistna Northern Div^n for working out the balances of several estimates prepared after the recent floods & for revetting the nose of the lock entrance at Bezwada.

7. The provisional grant of Rs 13,70,000 for next year is distributed as shown below:—

	Extensions & Improvements	maintenance & Repairs	Establishment: 23 per cent on expenditure	Establishment: 10 per cent on direct revenue	Establishment: 6 percent on irrigation revenue	Tools & Plant	Total
	1	2	3	4	5	6	7
Productive-	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Godavari delta . .	21,000	196,435	44,665	11,100	162,300	39,500	4,80,000
Kistna . . .	19,000	281,024	68776	5,360	150,840	50,000	5,75,000
Pennes anicut . .	—1103	10,140	2,078	70	8820	— 5	20,000
Sangam - . .	3630	18116	5,002	60	10,200	— 8	37,000
Kurnool-Cuddapah Canal	8000	60,732	15,808	980	7080	1600	94,200
Krishna delta . .	-	1447	333	-	720	-	2,500
Cauvery delta . .	17,000	—39,503	—5330	250	57,366	1217	25,000
Tiruvikramkam anicut .	1954	14,792	3,852	120	6,360	—78	27,000
Periyar project . .	-	65,000	5,750	.	.	250	71,000
Protective-							
Rushikulya project	-	30,000	6,900	150	-	1,250	38,300
Total	69,481	638,183	157,834	18,070	397,686	93,726	13,70,000

8. The amount provided for extensions & improvements to the Pennes anicut system & that for maintenance & repairs to the Cauvery delta system are Rs 1103 & Rs 39,503, respectively, less than the old maintenance charges provided for under "43. Minor works & Navigation."

9. The subjoined statement shows the amounts applied for & those provided under

Extensions & improvements maintenance & repairs & tools & plant for each division for 1897-98:-

Systems	Divisions	Extensions & Improvements		Maintenance & Repairs		Tools & Plant	
		Amount applied for	Amount provided	Amount applied for	Amount provided	Amount applied for	Amount provided
1	2	3	4	5	6	7	8
		Rs	Rs	Rs	Rs	Rs	Rs
	Productive.						
Godavari delta	Eastern . .	8,000	8,000	77,300	60,000	31,500	31,500
	Central . .	3,000	3,000	65,000	55,000	3,000	3,000
	Western . .	10,000	10,000	102,500	81,435	5000	5000
	Total	21,000	21,000	244,800	196,435	39,500	39,500
Kistna delta:	Eastern . .	16,000	16,000	162,100	132,000	5,500	5,500
	Northern . .	-	-	43,000*	35,000	40,500	40,500
	Western . .	3,000	3,000	135,000	114,024	4,000	4,000
	Total	19,000	19,000	340,100	281,024	50,000	50,000
Pennes anicut	Nellore	2500	2461	24,000	24,000	-	-
	Deduct old maintenance charges	3564	3564	13,860	13,860	5	5
	Net Total	-1064	-1103	10,140	10,140	-5	-5
Sangam anicut	Nellore . .	4500	3975	30,000	30,000	50	49
	Deduct old maintenance charges	345	345	11,884	11,884	57	57
	Net Total	4155	3630	18116	18116	-7	-8
Kurnool-Cuddapah Canal	Kurnool. .	12,000	8000	65,000	60,732	1600	1600
Varattupp	Salem . .	-	-	1500	1447	-	-

1	2	3	4	5	6	7	8
Cauvery delta	Tanjore . .	12,000	12,000	45,000	39,831	2,500	2,500
	Negapatam . .	4000	4000	20,000	17,500	300	300
	Trichinopoly . .	1000	1000	10,000	8800	20	20
	Total	17,000	17,000	75,000	66,131	2820	2820
	Deduct old maintenance charges	-	-	10,5634	10,5634	1603	1603
	Net Total	17,000	17,000	-30,634	-39,503	1217	1217
Srivaikuntkum Anicut	Tinnevelly . .	2,000	2306	20,000	20,000	-	-
	Deduct old maintenance charges	352	352	5208	5208	78	78
	Net Total	1648	1954	14792	14792	-78	-78
Periyar project	Madura . .	-	-	65000	65000	-	250
	Protective						
Rushikulya project	Ganjam	-	-	30000	30000	1250	1250
	Grand Total	73739	69481	758,874	638,183	93,477	93,726

* Exclusive of Rs 27,000 subsequently applied for.

10. Capital Expenditure not charged to Revenue

49. Irrigation. The current year's revised estimate is Rs 124,600 less than the budget estimate. The decrease represents the amount tendered accepted by the Govt of India in its letter, No 71. A.d., dated 16 Sept 1896

printed in P.M.G No 787 I, dy 25th idem & that reported in P.M.G No 109 I, dy 24th Jan/97.

11. The provisional grant of Rs 9,60,000 sanctioned for next year is Rs 133,500 more than the current year's revised estimate & is distributed as shown below:—

Projects	Divisions	Land	Works	Establishment	Tools & Plant	Total
		Rs	Rs	Rs	Rs	Rs
Godavari delta	Eastern.	-	680	-	-	-
	Central.	-	2,485	-	-	-
	Western.	-	1200	-	-	-
	Total	-	4,065	935	-	5,000
Kistna delta	Eastern.	20,000	83,260	-	5,000	-
	Northern.	-	28,400	-	50,600	-
	Western.	16500	179316	-	-	-
	Total	36,500	290,976	66,924	55,600	450,000
Kelingarayan channel	Coimbatore.	-	80081	18419	1,500	100,000
Cauvery delta	Tanjore.	-	116,260	26,740	-	143,000
Srivaikuntam anicut	Tinnevelly.	-	1626	374	-	2,000
Periyar project	Madura	-	202,439	46,561	1,000	250,000
	Total	36,500	695,447	159,953	58,100	950,000

+ Express.

7

In the schedule of demands printed in P.M.G No 1057 I, dy 15th Dec 96, Rs 12,47,000 were applied for for expenditure during 1897-98, but the provisional assignment sanctioned by the Govt of India being Rs 2,97,000 less, no amount has been allotted for the Penner anicut system & the grants originally proposed for the other systems have been reduced in accordance with G.O. No 68 I, dy 20th Jan/97. Supdg Engrs concerned should submit, as soon as possible, revised schedules showing the distribution by component works of the reduced grants for incorporation in Part II

The grant for the Godavari system will have to be incurred within the course of the year by transfer from the grant for other systems.

of the final issue of the budget estimates.

12. The following statement compares the probable "direct" capital outlay to end of 1897-98 with the sanctioned estimates for the projects for which funds have been provided & for which the construction estimates have not yet been closed:-

Projects	Sanctioned Estimate	Outlay to end of 1895-96	Revised Estimate 1896-97	Budget Estimate 1897-98	Total	Balance of Estimate
	Rs	Rs	Rs	Rs	Rs	Rs
Kistna delta	139,19,784	113,76,820	5,75,042	4,50,000	124,21,862	14,97,922
Periyar project	84,71,000	80,85,047	67,600	2,50,000	84,02,647	68,353
Kalingarayan channel	8,25,000	-	-	1,00,000	1,00,000	7,25,000
	232,15,784	194,61,867	6,62,642	8,00,000	209,24,509	22,91,275

In P.W.Q No 1089. J, & 23d Dec 5/96, the sanction of the Govt of India has been solicited to the extension of the sanction accorded

to the estimate for the improvements to the Kalingarayan channel for a period of five years commencing from the 31st Jan/96. The Supdg Engr, W Circle, should expedite the submission of the estimate called for in that order for reslicing the channel.

13. Provincial. Minor works & navigation. Direct Receipts. The current year's revised estimate is Rs 10,000 less than the budget estimate, the former being based on the actuals of the previous year, which fell short of the budget estimate of the current year. No

increase is anticipated over the current year's revised estimate in the budget estimate for the ensuing year.

4. Provincial Minor works Navigation. The current year's revised estimate is Rs 114200 less than the budget estimate, owing chiefly to funds provided for the Comm Improvements Scheme having been surrendered owing to the non sanction of the work pending submission of an estimate for the work on modified lines. The ensuing year's budget estimate is Rs 7,30,800 less than the revised estimate for the current year. The decrease is due to provision having

been made for the execution of a smaller number of works than during the current year, owing to the prospect of heavy loss anticipated by the Financial dept under the principal heads of revenue accompanied by extensive outlay on famine relief.

5. The assignment of Rs 30.50 lakhs which is Rs 4.50 lakhs less than the amount applied for is distributed as shown below:—

Minor works for which Capital & Rev. Accts are kept.			Rs	Rs
Capital account (see paragraph 16)			437,000	
Revenue do	(do	17)	280,000	717,000
Minor works for which either Capital or Rev. Accts are kept P.W.D—				
Old maintenance charges of major & minor Works for which Capital & Rev Accts are kept	(do	18)	426,136	
Ordinary works	(do	19)	830,864	
Tank restoration work	(do	21)	488,000	
Minor works, Rev Dept	(do	23)	35,000	17,80,000
Agricultural works	(do	22)	553,000	553,000
			Total	30,50,000

16. Capital Account.

The amount proposed for expenditure under this head compares with the sanctioned estimates as shown below:—

Projects	Amount of sanctioned Estimate	Outlay to end of 1895-96	Probable outlay during 1896-97	Budget Estimate 1897-98 Works	Land	Establishment	Tools & Plant	Total	Total outlay	Balance of Estimate
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Marwood. Cuddapah Canal.	16500	5,845	7,380	2,838	-	652	-	3490	16,715	— 215
Munneru -	368,000	144,566	157,900	81,000	-	18,630	400	100,030	404,496	—36,496
Sagileru -	361,000	268,171	110,700	40,000	-	9,200	-	49,200	438,071	—77,071
Palar Anicut	2,006,790	1,951,936	9,840	11,024	5,750	2,536	-	18,710	1,980,486	26,304
Pulandoraiadu	90,440	24,01	32,273	42,951	-	9,879	-	52,830	87,504	2,936
Lower Coleroon do	365,710	47,397	111,165	89,707	-	20,633	-	110,340	268,902	96,808
Buckingham Canal	86,4000	82,03,148	250,570	80,000	-	18,400	4000	102,400	8536,118	57882
Total				347,520	5,750	79,930	4,400	437,000		

The amounts provided for the Munneru & Sagileru projects involve an excess over the sanctioned estimates. The submission of the revised estimates for these projects should be expedited by the Supdg Engrs concerned.

The schedule of works which remained incomplete on the closure of the construction estimate of the Palar Anicut system will be shortly submitted to Govt.

Owing to the reduction of the amount applied for for expenditure during 1897-98 no funds have been provided for the following works proposed by Supdg Engrs:—

	Amount applied for. Rs.
Sanctioned works—	
Sangam anicut system.	
1. Diverting surplus of Kanigiri reservoir into Pyderu. G.O. No 407 I, dy 9 May 1896.	1,00,000
2. Supply channel from the Penner above Sangam anicut to Nellore tank & improving its distributaries. G.O. No 458 I, dy 25 May 1896.	100,000

Unsanctioned works –

Sangam Anicut System.

3. Allur swamp irrigation channels . . 10,000
4. Minor channels 10,000
5. Inspection bungalow at Kanigiri reservoir . . 3,000

Cumbum tank system.

6. Sirvel Project. Gorindapalli channel extension . . . 5,000
7. Remodelling the Sekrail cutwa channel 2nd Section . . 5,000

Ganjam Minor rivers system.

8. Improvements to channels . . . 10,000

Cheyar anicut system.

9. Improvements to Iyalvadi & Chengath -varam channels - 8,500

Maraduar anicut system.

10. Improving Maraduar Melakal . . . 5,000

Total 2,56,500

17. Revenue Account.

The following statement shows the amount provided for each system under this head:–

Divisions	Systems	Extensions & Improvements	Maintenance & Repairs	Establishment: 23 per cent on expenditure	Establishment: 10 per cent on direct receipt	Tools & Plant	Total.
		Rs	Rs	Rs	Rs	Rs	Rs
Ganjam.	Ganjam minor rivers	.	10000	2300	.	.	12,300
Kurnool.	Cumbum tank . .	500	1500	460	-	-	2460
Coimbatore	Thadapalli channel	1996	2900	1126	8	.	6030
	Arkenkota .	1000	902	438	-	.	2340
	Tulingarayan -	.	1901	437	12	.	2350
North Arcot	Palar Anicut .	3822	17095	7497	130	— 4	40,220
Chingleput	Do.	3280	8400				
North Arcot	Poiney anicut . .	1000	9000	2300	50	-	12350
	Cheyar - . .	3000	12,000	3450	20	-	18,470
Chingleput	Chembrambakam tank	— 2083	— 92	— 500	14	— 109	— 2770
	Regulating Valves Supply & Irrigation Vallur Anicut	— 3600	2299	— 299	1250	— 10	— 360
		2701	500	737	2	.	3940
South Arcot	Tirukoilur - . .	3002	8000	2531	57	-	13,590
	Mehamattur - . .	500	1000	345	5	-	1850
	Vriddachalam - . .	496	2500	689	5	.	3690
	Shatiatope - . .	2000	10,000	2760	30	.	14,790
	Pilandoray - . .	438	2942	777	25	— 2	4180
	Lower Coleroon . . .	2000	16000	5775	103	-	27,780
Tanjore	Do. . .	1502	3000				
Trichinopoly	Nandiyar channel.	.	7610	1750	.	.	9360
Tinnevelly	Maraduar anicut.	993	13,000	3218	29	.	17,240
Ganjam	Chilka Lake canal.	.	301	69	.	.	370
Negapatam	Vedaranien -	.	5065	1165	120	.	6350
Buckingham Canal	Buckingham -	2366	54,000	12,964	11,140	3000	83,470
	Total	24,913	18,823	49,389	13,000	2875	2,80,000

In all cases the amounts applied for by Supg Engrs have been

provided with slight modifications to round off totals.

18. Old maintenance charges. The sum provided is Rs 61,974 more than that fixed in Govs. Nos. 295 I, 1484 I, & 18 July & 4th Sept/90, respectively. The increase is due to the Board of Revenue having raised the old irrigation for the Cauvery delta system from Rs 23,65,000 to Rs 33,97,900.- vide Govt. No. 1091 I, & 26th Dec 5/96.

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

	1897-98 Rs	1896-97 Rs
Original works, major	66,132	129,655
Do. , minor (See Statement A)	238,827	131,800
Repairs , (do)	370,000	383,977
Total	666,959	645,432
Establishment at 23 percent on expenditure.	153,400	147,414
Do. at 10 percent on direct revenue.	500	500
Total	153,900	147,914
Tools & plant at 1½ percent on expenditure.	10,005	9614
Total	830,864	802,960

* Inclusive of a reserve of Rs 106,827.

20. Under original works, major, funds have been provided for the following sanctioned works:-

	Amount provided Rs.
Godavari Western dist-	
Diversion of Yerracalva & construction of masonry dams across it & Gudapalli channels	5,000
Kistna Northern dist-	
Machavla tank	500
Ipur tank	12,000
Jonapad tank	10,712
Nellore dist-	
Mopand tank improvements	4,000
Budamgunta tank	2,500

Bellary dist -

Excavating a channel & constructing five syphon sluices for Gadiganoor tank	2,010
Restoring the surplus weirs & raising bunds of Apparaxpett tank	4000
Improving Royalcheruvu tank	6300

Kurnool dist -

Pedda & chinna Mallalammal tank of Ramapuram	1000

Coimbatore dist -

Constructing an aqueduct & bridge in lieu of Pungaliyar outlet on the Chitharachavady channel	2870

South Arcot dist -

Cutting a channel from Pounnar river to irrigate lands in Tirukandeswaram & other villages	2,700

Trichinopoly dist -

Reconstructing bridge on Road No. XX over Ponnery channel	3360
Improvements to Kothamangalam tank	4060

Madura dist -

Constructing an under tunnel at 3200 feet from the head of Sethampathy channel	700
Repairing & improving Athalai tank	2,570

Tinnevelly dist -

Improving Vadukachimathel tank & channel	1820
Total	66,132

13

Owing to the curtailment of the grants applied for the amounts proposed by Superintendents for the following works for which estimates have not yet been sanctioned have not been provided:-

	Amount proposed Rs.
Vizagapatam dist -	
Mallapalem dam - cutting a new proposed head to Honjaram channel & clearing the old bed to Tamaram channel	3000
Kistna Northern dist -	
Atmakur tank	7000
Nellore dist -	
Tollapalem tank improvements	5500
Kommalapudi	5000
Nindur	3000
Siddavaram	7000
Jatiparti	6000
Pushpagiripatnam	5000
Kullur	3000
Rayaguntapalem	2900
Thurugonda	3600
Gudur large	5000
Challakalva L. B	7500
Bellary dist -	
Singuppa channel improvements	10,000

Kurnool dist –

Breaching Patha Cuddapah tank & constructing a channel with masonry works – 5,000

Salem dist –

Excavating a new supply channel to Pennyanda-puram tank 5000

Chingleput dist –

Improvements to Kinar tank 3050

Trichinopoly dist –

Reconstructing Chintamony odai weir on the right bank of Pownery channel . . . 4000

Madura dist –

Improving Thandalay tank 15000

Tinnevelly dist –

Improvements to north Kodamelalaghiem channel . . . 4000

Singampatty Perungal 3,000

Valliyur channel 3,000

Total 115550

21. Tank Restoration works. The amount provided for expenditure on tank restoration works has been distributed as shown below:–

Districts	Probable balance of sanctioned Estimates on 1st April/97	Amounts applid for by Supt. Engrs	Amounts provided
	Rs.	Rs.	Rs.
Godavari Eastern . . .	1125	6500	6,500
Kistna Western	30,290	20,000	20,000
Salem	94,723	50,000	50,000
North Arcot	68,700	40,000	40,000
Chingleput	187,425	75,000	75,000
South Arcot	50,801	50,000	50,000
Negapatam	7,176	30,000	30,000
Madura	157,359	70,000	70,000
Tinnevelly	83,000	50,000	50,000
Total	–	391,500	391,500

22. The distribution of the amount of Rs 5,53,000 provided for expenditure on Agriculture works during next year compares with the current year's grants as shown below:–

	1897-98 Rs.	1896-97 Rs.
Original works, major . . .	59,420	114,846
Do. , Minor . . .	17,700	76,503
Repairs	367,213	532,942
Establishment at 23 per cent on expenditure.	99,667	166,072
Do. at 10 per cent on direct receipts	2,500	2,500
Tools & plant at 1½ per cent on expenditure	6,500	10,827
Total	553,000	923,630

The major original works for which funds have been provided are enumerated in Part I. of the budget estimates for "43. Minor works & Navign." Funds have not been provided for the following unsanctioned works proposed by Supdg Engrs:—

Dns		Amount proposed Rs.
Godavri Central.	Raising the Vaeista L.B. below 12½ miles, Gunnavaram canal.	10,000
Kistna Northern.	Raising the flood banks of the Kistna river above ancint.	30,000
" Western.	Raising the Kistna river R.B. below the ancint.	50,000
Tinnevelly.	Anthur diversion R.B below Srivaikunthum ancint	20,000
	Total	110,000

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

In his endorsement No 2824 K.R., dy 8 Jan 97, the Supdg Engr. Kistna, applied for a revised grant of Rs 79,500 for the Kistna Northern Dn on the ground that the amount was required for working out the balance of several estimates prepared & sanctioned for the right & left embankments of the Kistna river. The demand has been reduced to its original amount, viz Rs 1,500. If more is required, the Supdg Engr will have to propose transfers from other works. His demands amounted to about half what was asked for for the Presidency. There is no need to starve other districts in order

None will be required but the demands must be reduced to a minimum and the additional grant obtained by transfer from the existing grant from other works - It is not certain that anything will be available from the reserve

The [illegible]

to hasten to improve the Kistna bunds.

23. Minor Works, Revd. Dept. The budget estimate of Rs 35,000 has been distributed as shown below:-

Reserve —	Rs
Original Works	28,112
Establishment	6,466
Tools & plant	422
Total	35,000

Supg Engrs should make early application for the funds required for expenditure on sanctioned works to be executed by Public Works Dept officers.

24. Local Irrigation Cess Fund. The current year's revised estimate of expenditure exceeds the budget estimate by Rs 4,444, the increase

having been sanctioned chiefly for constructing an inspection shed at Jaderpalem in the Salem district. The budget estimate of Rs 9,500 for next year is distributed as shown below:-

	Original Works	Repairs	Total
	Rs.	Rs.	Rs.
Salem Dn.	5,500	2,000	7,500
Trichinopoly Dn.	2,000	-	2,000
Total	7,500	2,000	9,500

25. 33. Famine Relief. The requirements for the current year under the above head as estimated by the Supg. Engrs concerned are given below:-

	Rs
1st Instl	2,000
3rd do	19,200
	21,200

The above amount has been provided by reducing the

current year's grants under "43 Provincial-Minor works charges for which neither Capital nor Rev.- Accts are kept" as shown below:-

			Rs
Vizagapatam div.-	Repairs	..	1607
Bellary -	Original Works	.	6,500
	Repairs	. .	1532
Cuddapah -	do	. .	4016
Kurnool -	do	. .	3,373
			17,028
	Establishment	.	3917
	Tools & Plant	.	255
	Total		21,200

The amount required for expenditure for next year is estimated at Rs 193,000, but no provision has been made in the preliminary budget estimates pending a special assignment for the purpose from Provincial funds.

		Rs
+ 1st Cirl.	. . .	168000
Cuddapah div.		10,000
Kurnool -		5000
Bellary -		10,000
Total		193,000

With reference to telegram No 46 A.C.W. dy 3 Feb 97 from the Govt of India communicated with Gp. No 346 W, dy 5 idem, the grants for the current year under "33 Famine Relief" have been struck out from the budget estimates for "43. Minor Works Charges" with a view to the submission as directed of a separate

26. The total grant for works & repairs under budget under the several heads & the contribution to "45. Civil Works" on account of establishment & tools & plant charges are shown below:-

	1897-98 Rs.	1896-97 Rs
Total grant for works & repairs.	38,39,738	45,83,042
Establishment -		
23 per cent on expenditure.	8,57,767	10,55,508
10 - on direct revenue.	34,090	34,090
6 - on indirect revenue.	633,480	607,740
Total	15,25,337	16,57,368
Tools & Plant at 1½ per cent on expenditure.	22,806	27,348

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

36. Protective works. Irrigation.

	Rs	Rs
Rushikulya Project		
Ganjam Dist. .	5,000	5,000

42. Major Works (Working Expenses)

Maintenance & Repairs.

Godavari Eastern dist.	500	
" Western "	1000	
Kistna Western "	1000	
Trichinopoly .	670	
Madura . .	40,000	43,170

43. Minor Works Major.

Capital Account.

North Arcot dist.	5,760	

Agricultural works.

Original works.

Godavari Central dist.	4000	
" Western "	3000	
Kistna Northern "	3000	
" Western "	1000	16,150
	Total	64,320

JH 5/2/97

WH 5.2.97

To

The Joint Secretary to Govt
P. W. D., Irrigation Branch

VCls 1/2/97 WH 5.2.97

A. Statement showing the proposed grants for "Minor original works under Rs 2500 each and Repairs for 1897-98 under "Minor works for which neither Capital nor Revenue accounts are kept, P.W.D."

Divisions	Irrigation revenue for 1897-98	Grant for 1897-98 Minor original work.	Repairs
	Rs	Rs	Rs
Ganjam .	98.948	5.000	12.000
Vizagapatam	162.862	6.000	9.500
Godavari Eastern		8.000	17.500
Central / Western	97.089	.	.
		2.000	4.000
Kistna Eastern		.	6.000
Northern / Western	54.271	1.500	4.000
Nellore . .	2.96.364	15.500	26.000
Cuddapah . .	2.91.144	10.000	30.000
Kurnool . .	84.959	3.000	10.000
Bellary . .	3.74831	5000	30.000
West coast . .	.	.	2000
Coimbatore . .	3.23.203	6.000	12.000
Salem	1.50.390	4000	12.000
North Arcot	2.43.075	15.000	25.000
Chingleput	6.22.544	10.000	35.000
South Arcot	3.81.293	10.000	35.000
Tanjore		1000	2000
Negapatam	45.162		
Trichinopoly	443.278	10.000	26.000
Madura .	3.50.035	6000	37.000
Tinnevelly .	760.651	6000	36.000
Total		1.24.000	3.70.000
Reserve		1.06.827	
Total		2.30.827	3.70.000

8. Statement showing the grants for Minor original works below Rs 2500 each and Repairs under "Agricultural works" for 1897-98.

Divisions		Minor original works	Repairs
		Rs	Rs
Ganjam		3000	6000
Vizagapatam		300	2500
Godavari	Eastern	.	20.000
	Central	1000	65.000
	Western	3.000	16.000
Kistna	Eastern	.	9000
	Northern	.	1588
	Western	.	100.000
Nellore		.	6500
Buckingham canal		.	7000
Cuddapah		.	4000
Coimbatore		3500	6500
Salem		.	625
Chingleput		500	1500
South Arcot		400	6000
Tanjore		2000	60.000
Negapatam		2000	20.000
Trichinopoly		2000	25.000
Trinevelly		.	10.000
Total		17.700	367.213

Rev. E.I. 1439/97

I.C.S. 31/1/97