(1) Number of pages 54 Sheets (108 Sheets)

(2) Date of repair 31/8/84

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

DEPARTMENT

G.O. No.	3062	Press.
B.P. No:		Mis.
Dated	18-12-1878	197 .

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3062/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

2nd December 1878, No. 982 I.

Irrigation.
Account.

Read the following paper :—

No. 5. Endorsement of the Acting Chief Engineer for Irrigation, dated Fort St. George, 28th November 1878, No. 351 I.

Revised Irrigation Budget Estimate for 1878-79.

SUBMITTED to Government.

2. The amounts assigned by the Government of India are as follow :—

	RS.
Extraordinary	6,00,000
Ordinary	26,20,000

The latter has been increased by Rupees 1,86,000 on account of refund to the Madras Irrigation and Canal Company for surveys of abandoned projects as stated in paragraph 2 of the Orders of the Government of India, No. 211-12 A I,* dated 11th July 1878, but the payment has been deferred† for the present, and the total ordinary grant therefore comes to Rupees 28,06,000. The Budget has been made up for the amounts noted above.

* Proceedings, Madras Government, No. 775 I, of 4th October 1878.

† Proceedings, Madras Government, No. 739 I, dated 27th September 1878.

3. The following statement compares the estimates under the several "fund heads" and "classes" as entered in the preliminary and final issues :—

Funds and Classes.	Preliminary Issue.	Final Issue.	Increase.	Decrease.
	RS.	RS.	RS.	RS.
Capital Extraordinary.				
Works	4,46,606	4,41,393	...	5,213
Establishment	1,23,008	1,21,572	...	1,436
Tools and plant	30,386	37,035	6,649	...
Total ...	6,00,000	6,00,000	6,649	6,649
Less refund from Provincial ...	1,00,000	50,000	...	50,000
Net ...	5,00,000	5,50,000	...	...
ORDINARY.				
Capital.				
Works	29,952	35,098	5,146	...
Establishment	26,249	27,666	1,417	...
Tools and Plant	9,987	2,477	...	7,510
State outlay on guaranteed irrigation works.	9,743	8,743	...	1,000
Total ...	75,931	73,984	6,563	8,510

Funds and Classes.	Preliminary Issue.	Final Issue.	Increase.	Decrease.
Revenue.	RS.	RS.	RS.	RS.
Works	34,000	34,000		
Repairs	4,46,310	4,46,310	...	...
Establishment	2,28,849	2,28,850	...	...
Tools and plant	80,750	76,788	1	...
Total ...	7,89,909	7,85,948	...	3,962
			1	3,962
Ordinary Agricultural.				
Works	2,16,316	2,16,316		
Repairs	11,11,690	11,11,690	...	...
Establishment	3,92,861	3,92,862	...	...
Tools and plant	33,293	39,200	1	...
Refund to Madras Irrigation and Canal Company for surveys to abandoned projects.	...	1,86,000	5,907 1,86,000	...
Total ...	17,54,160	19,46,068	1,91,908	...
Total Ordinary.				
Works	2,80,268	2,85,414	5,146	
Repairs	15,58,000	15,58,000	...	...
Establishment	6,47,959	6,49,378	1,419	...
Tools and plant	1,24,030	1,18,465	...	5,565
State outlay on guaranteed irrigation works.	9,743	8,743	...	1,000
Refund to Madras Irrigation and Canal Company for surveys of abandoned projects.	...	1,86,000	1,86,000	...
Grand Total ...	26,20,000	28,06,000	1,92,565	6,565
Decrease ...	...	...	6,565	...
Net increase ...	...	...	1,86,000	...

4. Under the head Capital Extraordinary the amount provided for tools and plant in the preliminary issue was Rupees 30,386, of which Rupees 26,000 is for special or floating plant, leaving Rupees 4,386 for general plant. Under the arrangements sanctioned in Proceedings, Madras Government, No. 1,866 W, of 17th April 1878, the Irrigation Budget has in addition to the amount required for special plant to provide for a refund to Provincial a sum equal to $2\frac{1}{2}$ per cent. on the proposed outlay for works and repairs on account of general plant. Taking the grants in the preliminary issue, the amount required for general plant at $2\frac{1}{2}$ per cent. is Rupees 11,165, or Rupees 6,779 more than is available. The completion estimates of the Kistna Delta have not yet been sanctioned by the Government of India, and the grant for Head Sluice, Bank Canal, Eastern Section, has therefore been reduced by Rupees 5,213, so that the corresponding reduction under establishment and tools and plant makes up the amount required.

5. Under the head ordinary the amount provided for tools and plant in the preliminary issue was Rupees 1,24,030, of which Rupees 85,380 is for special plant, viz., Rupees 49,380 for floating plant and Rupees 36,000 for enamelled iron gauges, leaving Rupees 38,650 for general plant. A revised indent for a reduced number of the gauges having been submitted,* the amount provided for them has been reduced from Rupees 36,000 to Rupees 23,000. The amount available for general plant is therefore Rupees 51,650,

* Proceedings, Madras Government, No. 371 I, dated 6th May 1878.

and the amount required at $2\frac{1}{2}$ per cent. on the outlay on works and repairs proposed in the preliminary issue is Rupees 45,957, or Rupees 5,693 less than is available. The amount required for State outlay on guaranteed irrigation works on account of establishment for control and compensation for land is Rupees 8,743 and not Rs. 9,743 as shown in the preliminary issue. The total amount available is therefore Rupees 6,693. The regulating works of Kudamurty and Tirumulrajenaur rivers in Tanjore District are progressing rapidly, and as it is necessary to complete them as soon as possible the grant for these works has been increased from Rupees 10,000 to Rupees 15,000, and Rupees 146 have been allowed to settle old claims for compensation for land taken up for old channels in the Eastern Section of the Godavari Delta, so that the budget estimate including a corresponding increase for establishment and tools and plant may come up to the amount assigned by the Government of India.

6. The suggestion of the Examiner of Public Works Accounts to treat in the first instance all home supplies including special plant as provincial remittances and to make the necessary adjustment subsequently has been approved in Proceedings Madras Government, No. 835 I, dated 19th October 1878, and therefore there is nothing shown in the budget for expenditure in England.

7. With reference to the budget orders of the Government of India for 1878-79 communicated to this office for report the following explanations are submitted :—

Paragraph 2.—The figures under the head "Regular Estimate for 1877-78" have been corrected.

Paragraph 3.—It having been found impracticable to provide more than Rupees 50,000 in the Provincial Budget for refund to Capital Extraordinary on account of Madras water supply and Irrigation extension project, the amount shown under Capital Extraordinary as refund from Provincial has been reduced from 1,00,000 to 50,000.

Paragraph 4.—In the Budget orders for 1877-78 a separate communication was promised by the Government of India regarding the question whether sanctions by this Government under Capital Ordinary for works partly sanctioned by the Government of India under Capital Extraordinary can be recognized or not, but as yet no communication has been received in this office. However, at the instance of the Examiner of Public Works Accounts copies of the orders noted in the margin containing the sanctions given by this Government have been transmitted to the Government of India for their information with letter, No. 510 I, dated 20th June 1878. The limit of Rupees 5,000 proposed by the Government of India for the cost of extensions and improvements being inapplicable to the works in this Presidency, it was reduced to Rupees 2,500 in paragraph 5 of Proceedings, Madras Government, No. 2,991 A, of 20th October 1874. The estimates sanctioned* for the Tappal and Lock Lascars' sheds in Kistna District amount to Rupees 5,795 and exceed the limit. They are therefore chargeable to Capital and not to Revenue.

No. 2,692, dated 20th Sept. 1875.
„ 283 I, „ 1st „ 1877.
„ 405 I, „ 13th May 1878.

* Proceedings, Madras Government, No. 132 I, dated 14th February 1878.

Paragraph 6.—The necessity for completing the improvements of the head sluice in the Central Section of the Godavari Delta System has formed the subject of a separate communication.

Proceedings, Madras Government, No. 533 I, dated 3rd July 1878.

Paragraph 8.—An estimate amounting to Rupees 24,770 for improving the South Main Channel, Srivaikuntham Anicut System, has been forwarded to the Government of India for their sanction with letter, No. 761, dated 2nd October 1878.

Paragraph 9.—The following is a corrected statement showing the estimated amount for each of the three projects for which funds are provided under extraordinary together with the probable expenditure to end of 1878-79 and the amount required to complete the works :—

	Godavari Delta System.	Kistna Delta System.	Srivaikuntham Anicut System.	Total.
Outlay.	RS.	RS.	RS.	RS.
Actual outlay to end of 1876-77 on current sanctions.	28,80,196	10,31,154	11,53,162	45,64,512
Actual outlay to end of 1876-77 on old sanctions.	1,72,816	3,90,551	...	5,63,367
Outlay debited to ordinary on works classed under extraordinary.	4,61,568	9,22,497	...	13,84,065
Total, Actual Outlay ...	30,14,580	23,44,202	11,53,162	65,11,944
Probable outlay during 1877-78	2,58,582	75,515	34,777	3,68,874
Proposed outlay during 1878-79	3,00,041	2,61,597	38,362	6,00,000
Total, Outlay ...	35,73,203	26,81,314	12,26,301	74,80,818
Estimates.				
Amount of estimate sanctioned and remaining current.	27,99,278	9,91,973	11,19,587	49,10,838
Completion estimates of Kistna Delta submitted for sanction.	...	52,48,130	...	52,48,130
Total, Current Sanctions ...	27,99,278	62,40,103	11,19,587	1,01,58,968
Amount of estimates completed	5,72,638	10,46,680	...	16,19,318
Amount applied for sanction on account of establishment and tools and plant—*vide* letter to Government of India, No. 629 I, 12th August 1878.	8,27,358	4,74,274	77,411	13,79,043
Total, Estimates ...	41,99,274	77,61,057	11,96,998	1,31,57,329
Amount remaining to complete the works ...	6,26,071	50,79,743	—29,305	56,76,511

The actual outlay on the Srivaikuntham Anicut System during 1877-78 was only Rupees 13,019, or Rupees 21,758 less than the amount entered as probable outlay in the regular estimate, the excess over estimate is therefore only Rupees 7,547, which is partly due to the increase under establishment and tools and plant which were charged at the fixed percentages on the grant. A revised estimate for the project is now under preparation.

Paragraph 10.—In letter, No. 629 I, dated 12th August 1878, to the Government of India, the correct amount of the existing sanctions has been communicated and the differences between them and the figures settled by the Government of India in their letter, No. 93 A I, dated 4th March 1878, fully explained. The amounts of estimates shown in the statement in the preceding paragraph correspond with the information already furnished. The following statement compares the figures of outlay given in the budget and those in the books of the Government of India :—

	Outlay to end of 1876-77 as shown in the Budget Estimate.	Outlay to end of 1876-77 as shown in the Books of Government of India.	Increase.	Decrease.
	RS.	RS.	RS.	RS.
Godavari Delta	25,53,012	25,38,428	...	14,584
Kistna do.	14,21,705	14,17,625	...	4,080
Srivaikuntham Anicut	11,53,162	11,53,169	7	...

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In the absence of the information showing how the figures in the books of the Government of India have been arrived at, it is impossible to trace the cause of the differences. The appropriation and outlay accounts of the year 1874-75 show an outlay of Rupees 4,080 on account of surveys in connection with the Kistna Delta System, and this corresponds with the difference to be accounted for on this system.

Paragraph 18.—The appointment of a Deputy Chief Engineer for Irrigation has been provided for in the scale of re-organization submitted with letter, No. 3,675 W, dated 18th September 1878.

(Signed) J. O. HASTED, Lt.-Col., R.E.
Ag. Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 6. ORDER THEREON, 2nd December 1878, No. 982 I.

THE revised budget estimate for 1878-79 is issued for a total of Rupees 6,00,000 under Extraordinary, and Rupees 28,06,000 under Ordinary.

2. The note of the Chief Engineer for Irrigation explains the modifications of the preliminary budget which have been made under each fund and class and also the several points noticed by the Government of India in their orders.

3. The budget as revised will be submitted together with a copy of these Proceedings for the consideration and approval of the Government of India.

(True Extract.)

Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To Superintending Engineers.
To the Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.
" Financial "
" Accountant-General.

Exd. C. Howarth.
Spare Copies 100 Copies of Budget.

Revenue 1878 Dept

IRRIGATION.
ACCOUNT.

No 55-14.

Govt. of (1878) Madras.

PUBLIC WORKS.

To

SUPERINTENDING ENGINEERS,

&c., &c., &c.

Dated December 2nd.

Issued

Read. 76—do Encl. 1

G. O., 2nd December 1878, No. 982 I.

DECEMBER.

Nos. 5-6.

No. 3062
Communicated to the
Board of Revenue
18. Dec /78.

Revised Budget Estimate for 1878-79,
forwarded for consideration and approval of
Government.

Rev 3574/78.

FINAL ISSUE.

3062/4

IRRIGATION BUDGET ESTIMATE, 1878-79. **MADRAS PRESIDENCY.**

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET ESTIMATE

OF THE

IRRIGATION BRANCH

OF THE

GOVERNMENT OF MADRAS

FOR THE YEAR

1878-79.

FORT ST. GEORGE,
1878.

(Signed) J. O. HASTED, Lieut.-Colonel, R.E.,
Acting Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

3062/5

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IRRIGATION BUDGET ESTIMATE, 1878-79. MADRAS PRESIDENCY.

GOVERNMENT OF MADRAS.

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BUDGET ESTIMATE OF THE IMPERIAL REVENUE FROM IRRIGATION WORKS IN MADRAS, FOR THE YEAR FROM 1ST APRIL 1878 TO 31ST MARCH 1879.

	Budget Estimate, 1878-79.	Regular Estimate, 1877-78.	Budget Estimate, 1877-78.	Actual Realization, 1876-77.
Direct Receipts to be included as Irrigation Revenue in the Finance Accounts of Public Works Department.	Rs.	Rs.	Rs.	Rs.
I.—Revenue from works for which both Capital and Revenue Accounts are kept.				
Godavari Delta System.				
VI.—Receipts from other canal produce	20,000	22,929	20,000	16,776
VIII.—Navigation receipts	42,000	42,466	42,000	44,957
IX.—Rents of buildings	...	744	...	734
XI.—Miscellaneous	5,500	861	5,500	865
Total ...	67,500	67,000	67,500	63,332
Kistna Delta System.				
IV.—Water-supply of Towns*	1,350	1,000	1,364	1,300
VI.—Receipts from other Canal produce	2,000	4,170	2,000	4,457
VIII.—Navigation receipts	21,000	15,000	12,000	17,184
IV.—Rents of buildings	...	...	...	...
XI.—Miscellaneous	2,000	2,000	900	5,061
Total ...	26,350	22,170	16,264	28,002
Penner Anicut System.				
VI.—Receipts from other Canal produce	200	...	200	1
XI.—Miscellaneous	200	... 62	200	35
Total ...	400	... 62	400	36
Palar Anicut System.				
VI.—Receipts from other Canal produce	20	80	20	102
XI.—Miscellaneous	180	20	200	2
Total ...	200	100	220	104
Pelandorai Anicut System.				
V.—Receipts from plantation	...	...	...	111
XI.—Miscellaneous	50	... 100	20	4
Total ...	50	100	20	115
Cauvery Delta System.				
VI.—Receipts from other Canal produce	9,000	3,500	9,000	4,041
XI.—Miscellaneous	...	500	...	327
Total ...	9,000	4,000	9,000	4,368
Srivaikuntham Anicut System.				
IV.—Water-supply of Towns†	1,000	550	1,000	565
VI.—Receipts from other Canal produce	500	120	500	92
IX.—Rents of buildings	...	100	...	124
XI.—Miscellaneous	...	30	...	23
Total ...	1,500	800	1,500	804

* Masulipatam.
† Tuticorin.

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE IMPERIAL REVENUE FROM IRRIGATION WORKS IN MADRAS, FOR THE YEAR FROM 1ST APRIL 1878 TO 31ST MARCH 1879—*(Continued)*.

	Budget Estimate, 1878-79.	Regular Estimate, 1877-78.	Budget Estimate, 1877-78.	Actual Realization, 1876-77.
	Rs.	Rs.	Rs.	Rs.
Chembrambakum Tank.				
XI.—Miscellaneous	...	80	...	9
V.—Receipts from plantation	...	20	...	7
Total ...	...	100	...	16
Total, Revenue Receipts ...	1,05,000	94,332	94,904	96,777
Madras Water Works ...	...	— 10,610	...	...
Net Revenue Receipt ...	1,05,000	83,722	94,904	96,777
III.—Revenue from Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept—				
VI.—Receipts from other Canal produce	11,000	12,874	10,000	12,432
XI.—Miscellaneous	4,000	880	3,500	765
Total ...	15,000	13,754	13,500	13,197
Summary of Preceding.				
I.—Revenue from works for which both Capital and Revenue Accounts are kept	1,05,000	83,722	94,904	96,777
III.—Revenue from Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept	15,000	13,754	13,500	13,197
Grand Total ...	1,20,000	97,476	1,08,404	1,09,974

MEMORANDUM OF THE AMOUNTS TO BE CREDITED TO EACH CANAL ON ACCOUNT OF ENHANCED SHARE OF LAND REVENUE.

Information not available	Rs. ...	Rs. ...	Rs. ...	Rs. ...

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE CHARGES FOR IRRIGATION WORKS, ORDINARY AND EXTRAORDINARY IN MADRAS, FOR THE YEAR FROM 1ST APRIL 1878 TO 31ST MARCH 1879.

	Reference to detailed Estimate.	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Regular Estimate, 1877-78.
CAPITAL.		Rs.	Rs.	Rs.
A.—Extraordinary.				
I.—Works	...	4,41,393	3,75,087	A 2,69,360
II.—Establishment	...	1,21,572	1,03,285	78,086
III.—Tools and Plant	...	37,035	21,628	21,428
IV.—Suspense Accounts	...	...	...	...
	...	6,00,000	5,00,000	3,68,874
Less refund from Ordinary and Provincial grants ...	...	50,000	1,00,000	1,00,000
A.—Extraordinary Total ..	...	5,50,000	4,00,000	2,68,874
B.—Ordinary.				
I.—Works	...	35,098	83,820	86,891
II.—Establishment	...	27,666	70,035	62,124
III.—Tools and Plant	...	2,477	5,100	13,374
IV.—Suspense Accounts	...	...	...	—16,686
State Outlay on Guaranteed Irrigation Works	...	8,743	8,698	4,000
B.—Ordinary Total ..	...	73,984	1,67,653	1,49,703
Add refund to Loan Funds ..	...	...	...	...
TOTAL CAPITAL, Extraordinary and Ordinary ..	...	6,23,984	5,67,653	4,18,577
C.—Revenue.				
I.—Extensions and Improvements	...	34,000	29,168	22,737
II.—Maintenance and Repairs	...	4,46,310	4,19,980	4,24,058
III.—Establishment	...	2,28,850	2,23,269	2,45,925
IV.—Tools and Plant	...	76,788	48,260	50,986
Refunds of Revenue	...	...	...	...
C.—Revenue Total ..	...	7,85,948	7,20,677	7,43,706
D.—Ordinary Agricultural, Expenditure for which no Capital or Revenue Account is kept.				
Original Works	...	2,16,316	2,82,728	2,29,937
Repairs	...	11,11,690	10,38,136	8,66,020
Establishment...	...	3,92,862	3,86,442	3,51,204
Tools and Plant	...	39,200	24,364	20,491
Suspense Accounts	...	...	...	282
Refund to M. I. & C. Co. for Surveys of abandoned projects.	...	1,86,000	...	6,00,000
D.—Total ...	...	19,46,068	17,31,670	20,67,934

IRRIGATION BUDGET ESTIMATE, 1878-79.

MADRAS PRESIDENCY.

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE CHARGES FOR IRRIGATION WORKS, ORDINARY AND EXTRAORDINARY IN MADRAS, FOR THE YEAR FROM 1ST APRIL 1878 TO 31ST MARCH 1879.

	Reference to Detailed Estimate.	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Regular Estimate, 1877-78.
Total Ordinary B + C + D.	Rs.	Rs.	Rs.	Rs.
Works	...	2,85,414	3,95,716	3,39,565
Repairs	...	15,58,000	14,58,116	12,90,078
Establishment	...	6,49,378	6,79,746	6,59,253
Tools and Plant	...	1,18,465	77,724	84,851
Suspense Accounts	...	...	...	**—16,404**
Receipts on Capital Account	...	...	...	...
State Outlay on Guaranteed Irrigation Works	...	8,743	8,698	4,000
Refund to M. I. & C. Co. for Surveys of abandoned projects.	...	1,86,000	...	6,00,000
	...	28,06,000	26,20,000	29,61,343
Add Refunds to Loan Funds	...	...	...	...
	...	28,06,000	26,20,000	29,61,343
Grand Total, Ordinary and Extraordinary.				
Works	...	7,26,807	7,70,803	6,08,925
Repairs	...	15,58,000	14,58,116	12,90,078
Establishment	...	7,70,950	7,83,031	7,37,339
Tools and Plant	...	1,55,500	99,352	1,06,279
Suspense Accounts	...	...	...	—16,404
Receipts on Capital Account	...	...	...	...
State Outlay on Guaranteed Irrigation Works	...	8,743	8,698	4,000
Refund to M. I. & C. Co. for Surveys of abandoned projects.	...	1,86,000	...	6,00,000
	...	34,06,000	31,20,000	33,30,217
Less Refund from Provincial and Ordinary Grants ...	...	50,000	1,00,000	1,00,000
Grand Total ...	...	33,56,000	30,20,000	32,30,217

GOVERNMENT OF MADRAS.

3062/8

PART I.

BUDGET ESTIMATE OF EXPENDITURE, ORDINARY AND EXTRAORDINARY ON IRRIGATION WORKS IN MADRAS FOR THE YEAR 1878-79, ARRANGED BY PROJECTS AND OBJECTS OF WORKS.

	Amount of Estimate.	Actual Outlay to end of 1876-77.	Probable Outlay during 1877-78, (Regular Estimate).	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Remarks.
A.—CAPITAL EXTRAORDINARY.	Rs.	Rs.	Rs.	Rs.	Rs.	
Godavari Delta System.						
I.—Works	26,07,718	17,50,120	1,85,850	2,19,190	2,15,650	Amount of sanctions given by the Government of India in their letter
II.—Establishment ...	...	5,10,190	51,932	60,371	59,382	Rs.
III.—Tools and Plant ...	1,91,560	90,005	20,800	20,480	20,800	No. 108 I, of 2nd March 1871 .. 9,45,400
IV.—Suspense Accounts ...	...	29,935	...	...	...	No. 181 I, of 20th May 1871 .. 1,35,400
	27,99,278	23,80,250	2,58,582	3,00,041	2,95,832	No. 367 I, of 2nd Aug. 1871 .. 13,04,640
V.—Less Receipts on Capital Account	...	54	...	...	...	No. 217 I, of 14th April 1874 .. 2,33,200 No. 120 A-I, of 18th April 1874 1,91,560 No. 279 I, of 30th June 1876 .. 27,780 No. 158 I, of 15th June 1877 .. 13,573 No. 30 I, of 30th June 1878 .. 3,285
Total ...	27,99,278	23,80,196	2,58,582	3,00,041	2,95,832	Total ... 27,99,278
Kistna Delta System.						
I.—Works	51,41,970	7,68,300	56,242	1,92,703	1,15,389	Amount of sanctions given by the Government of India in letter
II.—Establishment ...	7,96,468	2,39,426	18,645	53,076	31,774	Rs.
III.—Tools and Plant ...	3,01,665	23,860	628	15,818	628	Nos. 163 I, of 25th Oct. 1867, and 132 A I, of 1st Sept. 1868 4,14,193
IV.—Suspense Account ...	...	795	...	...	...	Nos. 132 A I, of 1st Sept. 1868, and 130 I, of 14th April 1871. 1,87,990
	62,40,103	10,32,381	75,515	2,61,597	1,47,791	No. 130 I, of 24th April 1871 .. 1,13,530
V.—Less Receipts on Capital Account	...	1,227	...	...	...	No. 43 I, of 21st Feb. 1878 .. 20,990
						7,36,703
Total ...	62,40,103	10,31,154	75,515	2,61,597	1,47,791	Estimates submitted to the Government of India with Docket
						Rs.
						No. 3,573, of 19th Dec. 1874 .. 10,94,320
						No. 3,528, of 22nd Dec. 1876 .. 27,21,270
						Letter Nos. 344 I, of 24th Sept. 1877 and 629 I, of 12th Aug. 1878 .. 14,42,180
						52,57,770
						59,94,473
						Estimates not yet removed from the list of current sanctions for want of completion certificates.
						Rs.
						Extension of Cummamur Canal .. 1,95,770
						West side channel, Eastern Delta .. 49,860
						2,45,630
						62,40,103
Penner Anicut System.						
I.—Works	4,20,660	4,16,173	...	...	16,780	Government of India Register No.
II.—Establishment ...	...	1,13,893	...	...	4,620	7 A I. of 1868-69. G.O. No.
III.—Tools and Plant ...	...	2,433	...	...	200	1,844 of 20th June 1867 .. 4,12,000
IV.—Suspense Accounts ...	...	3,736	...	...	...	G.O. No. 972 of 23rd Mar. 1869 .. 5,900
	4,20,660	5,36,235	...	...	21,600	„ No. 12 of 5th Jan. 1869 .. 2,760
V.—Less Receipts on Capital Account	...	1	...	...	...	4,20,660
Total ...	4,20,660	5,36,234	...	...	21,600	

GOVERNMENT OF MADRAS.

PART I.

BUDGET ESTIMATE OF EXPENDITURE, ORDINARY AND EXTRAORDINARY ON IRRIGATION WORKS IN MADRAS FOR THE YEAR 1878-79, ARRANGED BY PROJECTS AND OBJECTS OF WORKS—(*Continued*).

	Amount of Estimate.	Actual Outlay to end of 1876-77.	Probable Outlay during 1877-78, (Regular Estimate).	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Remarks.
Srivaikuntham Anicut System.	Rs.	Rs.	Rs.	Rs.	Rs.	
I.—Works	9,39,500	9,53,844	27,268	29,500	27,268	Government of India Register No. 65 I of 1876-76. G.O. No. 270 I of 29th January 1876 .. 11,19,587
II.—Establishment ...	1,73,982	1,98,203	7,509	8,125	7,509	
III.—Tools and Plant ...	6,105	1,317	...	737	...	
IV.—Suspense Account ...	...	...	...	...	...	
V.—Less Receipts on Capital Account	11,19,587	11,53,364	34,777	38,362	34,777	
	...	202	...	...	...	
Total ...	11,19,587	11,53,162	34,777	38,362	34,777	
Less met by refund from Provincial grant on account of Madras Water Works ...	...	...	3,68,874	6,00,000	5,00,000	
Total, Capital Extraordinary ..	...	...	1,00,000	50,000	1,00,000	
	...	...	2,68,874	5,50,000	4,00,000	
B. CAPITAL ORDINARY.						
Godavari Delta System.						
I.—Works	17,350	...	21,400	9,146	3,000	G.O. No. 2,592 of 20th Sept. 1875, and No. 73 I 25th Jan. 1878 .. 17,350
II.—Establishment ...	...	...	1,439	2,518	1,401	
III.—Tools and Plant ...	...	...	12,440	229	5,100	
IV.—Suspense Account ...	...	...	—21,990	...	...	
Total ...	17,350	...	—13,289	11,893	9,501	
Kistna Delta System.						
I.—Works	6,340	...	14,277	6,603	7,650	G.O. No. 1,115 A of 6th May 1876.
II.—Establishment ...	...	...	2,732	1,819	2,948	
III.—Tools and Plant ...	...	...	746	1,765	...	
IV.—Suspense Account ...	...	...	360	...	...	
Total ...	6,148	...	18,115	10,187	10,598	
Chembrambakam Tank.						
I.—Works	5,06,366	4,17,578	41,550	4,349	73,170	
II.—Establishment ...	1,31,628	1,02,872	32,216	1,198	20,159	
III.—Tools and Plant ...	5,006	4,696	...	108	...	
Less Receipts on Capital Account	..	—285	...	...	...	
Total ...	6,43,000	5,24,861	73,766	5,655	93,329	
Palar Anicut System.						
I.—Works	3,85,556	...	250	...	...	G.O. No. 509 I of 20th Nov. 1877. 5,200 Estimate under consideration ... 3,86,326 3,91,526
II.—Establishment ...	...	...	194	...	...	
III.—Tools and Plant ...	5,970	...	188	...	4,512	
Total ...	3,91,526	...	632	...	...	
Cauvery Delta System.					4,512	
I.—Works	31,380	...	4,714	15,000	...	Government of India Register No. 247 I of 1877-78. G.O. No. 374 I of 4th October 1877 31,380
II.—Establishment ...	...	...	3,656	4,131	127	
III.—Tools and Plant ...	...	...	...	375	...	
IV.—Suspense Account ...	...	...	4,944	...	...	
Total ...	31,380	...	13,314	19,506	127	

GOVERNMENT OF MADRAS.

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PART I.

BUDGET ESTIMATE OF EXPENDITURE, ORDINARY AND EXTRAORDINARY ON IRRIGATION WORKS IN MADRAS FOR THE YEAR 1878-79, ARRANGED BY PROJECTS AND OBJECTS OF WORKS—(*Continued*).

	Amount of Estimate.	Actual Outlay to end of 1876-77.	Probable Outlay during 1877-78, (Regular Estimate).	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Remarks.
Penner Anicut System.	Rs.	Rs.	Rs.	Rs.	Rs.	
I.—Works	1,31,210	1,61,893	4,700	...	...	G.O. No. 1,738 of 19th June 1875; and No. 1,134 of 8th May 1876.. 1,59,150
II.—Establishment ...	34,680	44,339	3,647	...	...	G.O. No. 2,604 of 27th Sept. 1876. 15,600
III.—Tools and Plant ...	8,860	16,562	...	...	...	1,74,750
IV.—Suspense Account ...	...	2,103	...	...	...	
Total ...	1,74,750	2,24,897	8,347	...	..	
State outlay on Guaranteed irrigation works	...	...	4,000	8,743	8,698	
Special Revenue Investigations.						
I.—Works	...	...	...	...	...	
II.—Establishment	...	...	18,240	12,000	40,888	
III.—Tools and Plant ...	...	...	...	...	...	
Total ...	...	...	18,240	12,000	40,888	
Survey Establishment	...	...	...	6,000	...	
Total, Capital Ordinary ..	...	...	1,49,703	73,984	1,67,653	
C. REVENUE.						
Godavari Delta System.						
I A.—Extension and Improvements	...	...	8,400	11,000	10,000	
I B.—Maintenance and Repairs	...	...	1,50,000	1,36,670	1,28,480	
II.—Establishment	...	...	98,738	89,621	88,229	
III.—Tools and Plant ...	...	...	28,610	39,872	34,310	
Total ...	...	...	2,85,748	2,77,163	2,61,019	
Kistna Delta System.						
I A.—Extension and Improvements	...	...	3,300	4,000	5,138	
I B.—Maintenance and Repairs	...	...	1,07,000	1,14,736	1,13,000	
II.—Establishment	...	...	67,384	58,623	57,582	
III.—Tools and Plant ...	...	...	21,626	14,568	12,750	
Refunds of Revenue	...	...	...	...	...	
Total ...	...	...	1,99,310	1,91,921	1,88,470	
Penner Anicut System.						
I A.—Extensions and Improvements	...	...	745	...	3,030	
I B.—Maintenance and Repairs	...	...	23,108	28,700	29,500	
II.—Establishment ...	...	...	12,686	12,279	13,604	
III.—Tools and Plant ...	...	...	...	718	...	
Refunds of Revenue	...	...	...	...	...	
Total ...	...	...	36,539	41,697	46,134	

GOVERNMENT OF MADRAS.

PART I.

BUDGET ESTIMATE OF EXPENDITURE, ORDINARY AND EXTRAORDINARY ON IRRIGATION WORKS IN MADRAS FOR THE YEAR 1878-79 ARRANGED BY PROJECTS AND OBJECTS OF WORKS—(*Continued*).

—	Amount of Estimate.	Actual Outlay to end of 1876-77.	Probable Outlay during 1877-78 (Regular Estimate).	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Remarks.
C.—REVENUE—(Contd.)	Rs.	Rs.	Rs.	Rs.	Rs.	
Chembrambakum Tank.						
I A.—Extensions and Improvements.	...	...	198	...	...	
I B.—Maintenance and Repairs.	...	...	1,500	9,600	10,000	
II.—Establishment	...	...	1,280	3,358	3,469	
III.—Tools and Plant	...	...	100	240	...	
Refunds of Revenue ...	...	...	...	...	...	
Total ...	...	...	3,078	13,198	13,469	
Palar Anicut System.						
I A.—Extensions and Improvements.	...	...	1,600	3,000	2,000	
I B.—Maintenance and Repairs.	...	...	34,659	37,200	39,000	
II.—Establishment	...	...	15,568	13,754	13,978	
III.—Tools and Plant	...	...	...	1,005	...	
Refunds of Revenue ...	...	...	...	...	...	
Total ...	...	...	51,827	54,959	54,978	
Pelandorai Anicut System.						
I A.—Extensions and Improvements.	...	...	...	...	...	
I B.—Maintenance and Repairs.	...	...	16,870	4,800	11,000	
II.—Establishment	...	...	6,271	1,970	3,679	
III.—Tools and Plant	...	...	...	120	...	
Total ...	...	...	23,141	6,890	14,679	
Cauvery Delta System.						
I A.—Extensions and Improvements.	...	...	8,100	10,000	9,000	
I B.—Maintenance and Repairs.	...	...	76,000	66,810	69,000	
II.—Establishment	...	...	36,724	30,258	35,049	
III.—Tools and Plant	...	...	650	1,920	300	
Refunds of Revenue ...	...	...	...	...	...	
Total ...	...	...	1,21,474	1,08,988	1,13,349	
Srivaikuntahm Anicut System.						
I A.—Extensions and Improvements.	...	...	394	6,000	...	
I B.—Maintenance and Repairs.	...	...	14,921	47,800	20,000	
II.—Establishment	...	...	7,274	16,987	7,679	
III.—Tools and Plant	...	...	...	1,345	...	
Refunds of Revenue ...	...	...	...	...	...	
Total ...	...	...	22,589	72,132	27,679	
Reserve at the disposal of Government—						
Tools and Plant	...	...	...	17,000	900	
Total ...	...	...	...	17,000	900	
Survey Establishment	...	...	...	2,000	...	
Total, Revenue Ordinary ...	...	...	7,43,706	7,85,948	7,20,677	

GOVERNMENT OF MADRAS.

PART I.

BUDGET ESTIMATE OF EXPENDITURE, ORDINARY AND EXTRAORDINARY, ON IRRIGATION WORKS IN MADRAS FOR THE YEAR 1878-79 ARRANGED BY PROJECTS AND OBJECTS OF WORKS—(Continued).

—	Amount of Estimate.	Actual Outlay to end of 1876-77.	Probable Outlay during 1877-78 (Regular Estimate).	Budget Estimate, 1878-79.	Budget Estimate, 1877-78.	Remarks.
D.—ORDINARY AGRICULTURAL WORKS FOR WHICH NO CAPITAL OR REVENUE ACCOUNTS ARE KEPT.	Rs.	Rs.	Rs.	Rs.	Rs.	
Original Works	...	...	2,29,937	2,16,316	2,82,728	
Repairs	...	...	8,66,020	11,11,690	10,38,136	
Establishment	...	...	3,51,204	3,92,862	3,86,442	
Tools and Plant	...	...	20,491	39,200	24,364	
Suspense Accounts	...	...	282	...	...	
Refunds to M. I. & C. Co. for Surveys of abandoned projects.	...	...	6,00,000	1,86,000	...	
Total, Ordinary Agricultural	...	...	20,67,934	19,46,068	17,31,670	
Grand Total, Ordinary ...	...	...	29,61,343	28,06,000	26,20,000	

CHARGES.

GOVERNMENT OF MADRAS.

PART I.

ABSTRACT OF CHARGES TO BE INCURRED FROM IMPERIAL FUNDS AND CONTRIBUTIONS AS DETAILED WITHIN.

—	Budget Estimate, 1878-79.								Budget Estimate, 1877-78.	Regular Estimate, 1877-78.
	Works.	Repairs.	Establishment.	Tools and Plant.	Suspense.	Refund to M. I. & C. Co. for Surveys of abandoned projects.	State Outlay on Guaranteed Irrigation Works.	Total.		
Extraordinary—	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
In India ...	4,41,393	...	1,21,572	37,035	...	...	...	6,00,000	4,99,372	3,68,246
In England ..	...	...	...	...	..	..	...	...	628	628
Total ...	4,41,393	...	1,21,572	37,035	...	...	...	6,00,000	5,00,000	3,68,874
Ordinary—										
In India ...	2,85,414	15,58,000	6,49,378	1,18,465	...	1,86,000	8,743	28,06,000	26,84,000	29,52,343
In England ...	..	...	...	...	...	...	...	...	38,000	9,000
Total ...	2,85,414	15,58,000	6,49,378	1,18,465	...	1,86,000	8,743	28,06,000	27,22,000	29,61,343
Total, Ordinary and Extraordinary—										
In India ..	7,26,807	15,58,000	7,70,950	1,55,500	...	1,86,000	8,743	34,06,000	31,83,372	33,20,589
In England ...	...	...	...	...	...	...	...	...	38,628	9,628
Total ...	7,26,807	15,58,000	7,70,950	1,55,500	...	1,86,000	8,743	34,06,000	32,22,000	33,30,217

GOVERNMENT OF MADRAS.

PART II.

DETAIL OF BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

3062/14

Division.	Sub-head of Classification.	Item No.	Details of Works and Locality.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Grant, 1878-79. Ordinary.	Grant, 1878-79. Extraordinary.	Item No.	Remarks and References.
				Rs.	Rs.	Rs.	Rs.	Rs.		
			GODAVARI DELTA SYSTEM.							
			(1.) Head Works.							
	C. Works	1	Improvements to under sluices at Dowlaishvaram ...	8,650	...	...	5,000	...	1	G.O., No. 405 I, of 13th May 1878.
		2	Do. do. at Vijeshvaram ...	8,700	...	...	4,000	...	2	No. 73 I, of 25th January 1878.
			(2.) Main Canals and Branches.							
	D. Regulators	3	Main Canal— Head sluice	17,890	11,956	700	...	1,000	3	G.O., No. 2,335, of 28th September 1870; and No. 1,409, of 22nd May 1871.
	B. Land	4	Cocanada Canal— Compensation for land	6,545	233	1,250	...	500	4	
	L. Earthworks	5	Improvements	38,120	37,634	486	...	5,000	5	G.O., No. 1,409, of 22nd May 1871; and No. 203 I, of 31st July 1877.
	B. Land	6	Coringa Canal— Compensation for land	6,543	187	450	...	1,000	6	
	L. Earthworks	7	Improvements	41,180	29,234	3,734	...	4,200	7	
	B. Land	8	Bank Canal— Compensation for land	6,220	..	50	...	1,000	8	G.O., No. 1,217, of 7th May 1874.
	I. Navigation Works ...	9	Lock at 30th mile	20,600	2,691	9,000	...	10,000	9	
		10	Lock weir at 30th mile	3,200	...	1,000	...	1,500	10	
	B. Land	11	Injeram Canal— Compensation for land	3,273	...	...	...	800	11	G.O., No. 1,409, of 22nd May 1871.
	B. Land	12	Samulcottah Canal— Compensation for land	...	536	1,350	...	500	12	G.O., No. 3,215, of 12th October 1868.
	Do.	13	Compensation for land taken up for channels completed in former years.	...	...	...	146	...	13	
Eastern Delta ...	C. Works	14	(3.) Distributaries. Cocanada Canal— Head sluices and dividing dams	21,000	13,317	2,230	...	8,000	14	G.O., No. 1,409, of 22nd May 1871.
	L. Earthworks	15	Minor channels	8,000	8,503	2,488	...	2,000	15	
	C. Works	16	Coringa Canal— Head sluices and dividing dams	18,000	10,225	716	...	4,500	16	
	B. Land	17	Mandapetta Canal— Compensation for land	3,273	251	1,000	...	1,000	17	G.O., No. 1,281, of 22nd May 1876
	C. Works	18	Head sluices and dividing dams	4,467	1,615	1,320	...	1,500	18	
	C. Works	19	Bank Canal— Head sluices and dividing dams	5,600	...	...	...	5,600	19	G.O., No. 1,217, of 7th May 1874.
	L. Earthworks	20	Minor channels	7,500	...	...	...	7,500	20	
	C. Works	21	Samulcottah Canal— Head sluices and dividing dams	8,500	6,416	...	...	2,400	21	G.O., No. 3,215, of 12th October 1868.
	L. Earthworks	22	Minor channels	15,200	8,235	3,208	...	1,000	22	
			(4.) Drainage and Protective Works.							
	L. Earthworks	23	Thuliabaga Drain— Improvements	1,31,710	91,289	6,170	...	5,000	23	G.O., No. 1,409, of 22nd May 1871.
	Do.	24	Biccavole Drain— Improvements	60,730	42,593	1,825	...	5,000	24	
	B. Land	25	Taki Drain— Compensation for land	18,000	...	1,076	...	1,000	25	
	L. Earthworks	26	Improvements	2,55,600	88,538	8,000	...	19,000	26	
			Total, Eastern Delta ...	...	...	...	9,146	89,000		
	D. Regulators	27	(2.) Main Canals and Branches. Main Canal— Improvements to head sluice at Bobberlunka ...	...	...	8,500	...	10,000	27	Estimates under review.
	I. Navigation Works ...	28	Gunnaram Canal— Lock at Ralli	...	...	...	...	15,000	28	
Central Delta ...	B. Land		Bank Canal—							
	I. Navigation Works ...	29	Compensation	...	...	...	...	15,000	29	
			Lock weir at Neddapalayam							
			Do. at Chintalunka							
			Do. at Tanilunka							
			Total, Central Delta ...	...	...	...	...	40,000		

GOVERNMENT OF MADRAS.

PART II.

DETAIL OF BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Sub-head of Classification.	Item No.	Details of Works and Locality.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Grant, 1878-79. Ordinary.	Grant, 1878-79. Extraordinary.	Item No.	Remarks and References.
			GODAVARI DELTA SYSTEM (Continued).							
			(1.) Head Works.							
	B. Land	29	Compensation for land for Paravelli, Attili, Bhimaveram, and Akid Rest-houses.	Rs. 896	Rs. 800	Rs. 50	...	Rs. 40	29	
			(2.) Main Canals and Branches.							
	B. Land	30	Main Canal— Compensation for land	2,500	...	1,000	...	1,000	30	G.O., No. 2,929, of 2nd November 1876.
	L. Earthworks	31	Improvements from 0 to 2½ miles	24,245	30,387	4,000	...	2,300	31	
			Improvements from 2½ miles	12,505						
	B. Land	32	Kakaraparru Canal— Compensation for land	2,000	...	1,000	...	500	32	
	L. Earthworks	33	Improvements	31,000	16,343	...	...	2,500	33	
	B. Land	34	Narsapur Canal— Compensation for land	1,820	1,176	400	...	500	34	
	F (1). Other cross drainage works.	35	Saripally under tunnel	7,000	...	5,000	...	2,000	35	
	I. Navigation works ...	36	Lock at Marter	19,110	2,418	1,000	...	8,000	36	G.O., No. 238 I, of 17th August 1877.
		37	Altering lock weir at Marter	1,310	...	1,000	...	300	37	
	L. Earthworks	38	Do. do. at Kavitem	1,070	...	800	...	200	38	
		39	Improving Marter lock weir channel	300	...	250	...	50	39	
	H. Escapes	40	Bank Canal— Mukkamala calingulah alteration	600	...	...	...	600	40	
	I. Navigation works ...	41	Lock (tidal) at Latchmipolliem	30,700	2,645	11,000	...	16,000	41	G.O., No. 7 I, of 1st May 1877.
		42	Do. weir at do.	4,000	602	3,000	...	800	42	
	L. Earthworks	43	Improvements	25,800	22,308	2,500	...	800	43	
	H. Escapes	44	Undi Canal— Escape at 7½ miles	4,910	623	...	...	3,000	44	
	I. Navigation Works ...	45	Do. at 15¾ miles above aqueduct	3,550	415	...	...	2,000	45	G.O., No. 2,925, of 18th November 1871
	L. Earthworks	46	Lock weir at Yenamadurru	5,110	457	...	...	3,000	46	
Western Delta ...		47	Improvements to canal	26,600	20,709	130	...	1,000	47	
	B. Land	48	Attili Canal— Compensation for land	4,500	181	500	...	500	48	G.O., No. 1,277, of 14th April 1877.
	B. Land	49	Ellore Canal— Compensation for land	1,000	206	300	...	200	49	
	F. River and Hill Torrent Works.	50	Under tunnel at 20th mile	10,300	....	8,000	...	4,000	50	G.O., No. 1,362, of 20th April 1877.
	L. Earthworks	51	Improvements	46,100	22,703	13,000	...	12,000	51	
			(3.) Distributaries.							
	C. Works	52	Narsapur Canal— Head sluices and dividing dams	20,471	4,825	4,500	...	5,000	52	G.O., No. 238 of 17th August 1877.
	L. Earthworks	53	Minor channels	9,273	8,531	800	...	500	53	
	C. Works	54	Bank Canal— Head sluices and dividing dams	5,227	2,644	1,000	...	1,000	54	
	C. Works	55	Venkaya and Weyeru Canal— Head sluices and dividing dams	10,110	1,643	300	...	1,000	55	G.O., No. 2,929, of 2nd November 1876.
	L. Earthworks	56	Minor channels	4,289	539	...	...	1,000	56	
	B. Land	57	Undi Canal— Compensation for land	4,990	163	400	...	500	57	
	C. Works	58	Head sluices and dividing dams	8,200	..	600	...	1,000	58	G.O., No. 2,925, of 18th November 1871.
	L. Earthworks	59	Minor channels	12,150	4,061	1,800	...	2,000	59	
	C. Works	60	Attili Canal— Head sluices and dividing dams	10,338	8,136	...	...	500	60	G.O., No. 1,277, of 14th April 1877.
	L. Earthworks	61	Minor channels	13,620	10,411	2,300	...	100	61	
	B. Land	62	Gostanadi and Velpur Canal— Compensation for land	5,750	342	3,000	...	500	62	G.O., No. 2,925, of 18th November 1871.
	C. Works	63	Head sluices and dividing dams	9,580	1,959	600	...	1,000	63	
	B. Land	64	Ellore Canal— Compensation for land, mid-level channel ...	7,440	984	1,000	...	500	64	G.O., No. 1,362, of 20th April 1877.
	C. Works	65	Head sluices and dividing dams	31,346	30,435	...	...	400	65	

GOVERNMENT OF MADRAS.

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PART II.

DETAIL OF BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Sub-head of Classification.	Item No.	Details of Works and Locality.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Grant 1878-79. Ordinary.	Grant 1878-79. Extraordinary.	Item No.	Remarks and References.
				Rs.	Rs.	Rs.	Rs.	Rs.		
			GODAVERY DELTA SYSTEM—(Continued).							
			(3.) Distributaries—(Continued).							
	B. Land	66	Ellore Canal—(*Continued*).					300	66	
	C. Works	67	Compensation for land, low-level channel ...		113	290	...	3,000	67	
	L. Earthworks	68	Head sluices and dividing dams	2,760	9,058	1,900	...	200	68	
			Minor channels	15,450	3,781	2,200	...			
				7,560						G.O., No. 1,362, of 20th April 1877.
			(4.) Drainage and Protective Works.							
	B. Land	69	Ellore Canal—					100	69	
	C. Works	70	Compensation for land	9,660	...	710	...	2,000	70	
Western Delta ...			Minor drains	24,153	23,653	...	...			
	B. Land	71	Gostanadi Drain—					100	71	
			Compensation for land			1,000	...			
	C. Works	72	Yenamadurru Drain—	2,500	...			1,000	72	G.O., No. 2,925, of 18th November 1871.
			Masonry Inlets			...	...			
	B. Land	73	Kaza Drain—	8,670	...			100	73	
	C. Works	74	Compensation for land			50	...	6,000	74	
	L. Earthworks	75	Outfall sluice	200	...		...			
			Improvements to channel below outfall sluice ...	6,325	...	...	...	100	75	G.O., No. 522 I, of 23rd Nov. 1877.
	L. Earthworks	76	Mogultur Drain—	500	...	400	...			
			Improvements					1,000	76	
				21,069	15,896	3,000	...			
			Total, Western Delta ...	...	...	...	...	90,190		
			Total, Godavery Delta System ...	...	...	...	9,146	2,19,190		
			KISTNA DELTA SYSTEM.							
			(2.) Main Canals and Branches.							
	D. Regulators	77	Main Canal—			6,560	...	3,440	77	G.O., No. 634 I, of 27th Dec. 1877.
		78	Improvements to head sluice	9,940	...	...	...	1,000	78	G.O., No. 1,389, of 20th May 1871.
	I. Navigation Works ...		Masonry wall and revetment, north side ...	24,835	24,494	...				
	L. Earthworks	79	Masulipatam Canal—			...	1,510	...	79	G.O., No. 132 I, of 14th February 1878.
		80	Lock sheds	1,510	...	687	...	1,000	80	G.Os., No. 3,215, of 12th October 1868, and No. 3,208, of 1st October 1872.
			Completing sloping banks from 1st to 4th mile ...	10,100	8,639					
	K. Buildings	81				87	...	1,000	81	G.O., No. 3,215, of 12th October 1868.
		82	Enlarging the canal from 4th to 12½ miles ...	65,000	64,959	...	440	...	82	G.O., No. 132 I, of 14th February 1878.
			Tappal lascars' shed	440	...					
	B. Land	83	Ryves' Canal—			...	...	1,000	83	
	E. Falls and Weirs ...	84	Compensation for land	3,000	3,218	...	...	2,500	84	G.O., No. 3,215, of 12th October 1868.
	G. Bridges	85	Two calingulahs and bridges	2,960	445	...	...	3,000	85	G.O., No. 79, of 11th January 1876.
			Bridge of three arches of 38 feet span at crossing Ellore road.	12,440	9,226	3,000	...			
Eastern Delta ...		86	Accommodation bridge across Pulleru near Marivada.	3,710	2,396	140	...	1,200	86	
	L. Earthworks	87	New cut	2,76,880	2,34,420	9,000	...	19,500	87	G.O., No. 3,215, of 12th October 1868.
		88	Widening near Marivada	58,180	47,364	4,000	...	7,800	88	
	D. Regulators	89	Bank Canal—	6,940	...	...	...	787	89	G.O., No. 3,528, of 22nd December 1876.
	I. Navigation Works ...	90	Head sluice	11,970	...	...	...	10,000	90	
			Head lock	...	...	...	...	500	91	
	B. Land	91	Ellore Canal—	1,880	...	...	...	1,880	92	G.O., No. 3,528, of 22nd December 1876.
	F. River and Hill Torrent Works.	92	Compensation	1,235	...	...	...	1,235	93	
		93	Improvements to Budemeru aqueduct	1,280	...	...	...	1,280	94	
		94	Ampapuram outlet	380	...	...	...	380	95	
		95	Do. inlet	255	...	...	...	255	96	Estimate submitted to Government of India *vide* G.O., No. 3,528, of 22nd December 1876.
		96	Viravelli outlet on 22nd mile	6,720	...	...	...	6,720	97	
		97	Nellivagu outlet on 23rd mile	2,765	...	...	...	2,765	98	
		98	Perikid outlet							
			Pedapadu outlet							

GOVERNMENT OF MADRAS.

PART II.

DETAIL OF BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

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Division.	Sub Head of Classification.	Item No.	Details of Works and Locality.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Grant, 1878-79. Ordinary.	Grant, 1878-79. Extraordinary.	Item No.	Remarks and References.
				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
			KISTNA DELTA SYSTEM—(Continued).							
			(2.) Main Canals and Branches—(Continued).							
			Ellore Canal—(Continued).							
	F. River and Hill torrent works	99	Watlur Outlet	4,900	...	...	...	4,900	99	Estimates submitted to Government of India—*vide* G.O., No. 3,528, of 22nd December 1876.
		100	West Tammileru aqueduct alteration	13,000	...	...	...	10,000	100	
	I. Navigation works	101	Two Lock Sheds	110	...	...	110	...	101	
	K. Buildings	102	Four Tappal Lascars' Sheds	220	...	...	220	...	102	G.O., No. 132 I, of 14th February 1878.
			Polrazkodu Canal—							
	B. Land	103	Compensation	...	...	...	...	1,000	103	
	D. Regulators	104	Head Sluice	800	...	...	...	800	104	Estimates submitted to Government of India—*vide* G.O., No. 3,528, of 22nd December 1876.
	L. Earthworks	105	Improvements	31,600	...	...	...	9,000	105	
	B. Land	106	Compensation	5,000	2,914	...	...	2,000	106	
	I. Navigation works	107	Five Lock Sheds	30 2	...	...	302	...	107	G.O., No. 3215, of 12th October 1868.
Eastern Delta—(Continued).	K. Buildings	108	One Tappal Lascar's Shed	55	...	...	55	...	108	G.O., No. 132 I, of 14th February 1878.
			(3.) Distributaries.							
			Polrazkodu Canal—							
	C. Works	109	Head Sluice to Chevoorkodu	500	...	...	...	500	109	
	L. Earthworks	110	Kaikalur Channel	8,450	...	...	...	6,000	110	Estimates submitted to Government of India—*vide* G.O., No. 3,528 A, of 22nd December 1876.
		111	Chevoorkodu	57,585	...	...	...	5,000	111	
		112	Nurasayapollem Channel	3,915	...	...	...	3,000	112	
			(4.) Drainage and Protective Works.							
			Peddakommaleru—							
	L. Earthworks	113	Improvements	2,05,000	...	...	...	5,000	113	Do. do. do.
			Total, Eastern Delta	...	...	...	2,637	1,14,442		
			(1.) Head Works.							
			Raising the Anicut	60	...	60	...	60	114	
			(2.) Main Canals and Branches.							
			Main Canal—							
	C. Works	114	Improvements to Head Sluice	9,340	...	8,443	...	5,000	115	G.O., No. 634 I, of 27th December 1877.
	D. Regulators	115	Five Lock Sheds	302	...	...	302	...	116	G.O., No. 132 I, of 14th February 1878.
	I. Navigation works	116	Bank Canal—	...	...	...	...	2,000	117	
			Compensation	1,000	...	...	...	1,000	118	Estimates submitted to Government of India—*vide* G.O., No. 3,572, of 19th December 1874.
	B. Land	117	Kullur Lock Weir alteration	800	...	...	...	800	119	
	E. Falls and Weirs	118	Vellatoor do. do.	800	...	...	...	800	120	
		119	Pemmudi do. do.	38,490	...	...	...	5,000	121	
		120	Flood banks	302	...	...	302	...	122	G.O., No. 132 I, of 14th February 1878.
	L. Earthworks	121	Five Lock Sheds	1,885	...	...	...	1,885	123	Estimates submitted to Government of India—*vide* G.O., No. 3,572, of 19th December 1874.
	Navigation works	122	Nizampatam Canal—	2,055	...	...	...	2,000	124	
			Screw gearing shutters to head sluice	1,015	...	...	1,015	...	125	
	D. Regulators	123	Extension, &c.	...	...	...	440	...	126	G.O., No. 132 I, of 14th February 1878.
		124	Sixteen Lock Sheds	5,480	...	...	...	1,535	127	
Western Delta ...	I. Navigation works	125	Eight Tappal Lascars' Sheds	7,640	...	...	...	7,640	128	
	K. Buildings	126	Commamur Canal—							
			Compensation	2,910	...	...	...	2,910	129	
	B. Land	127	Nallawada Outlet	4,160	...	...	...	4,160	130	Estimates submitted to Government of India—*vide* G.O., No. 3,572, of 19th December 1874.
	F. River and Hill Torrent Works.	128	Do. Inlet	1,670	...	...	...	1,670	131	
		129	Nakkavagu Outlet	2,200	...	...	...	2,200	132	
		130	Do. Inlet	27,720	...	...	...	14,889	133	
		131	Head Lock Weir	35,370	...	...	...	19,712	134	
	H. Escapes	132	Kollimeria Lock	549	...	...	357	...	135	G.O., No. 132 I, of 14th February 1878.
	I. Navigation works	133	Tidal Lock	2,88,290	...	...	...	5,000	136	G.O., No. 3,572, of 19th Dec. 1874.
		134	Six Lock Sheds	550	...	...	550	...	137	G.O., No. 132 I, of 14th February 1878.
		135	Widening, &c.							
	L. Earthworks	136	Ten Tappal Lascars' Sheds							
	K. Buildings	137								

GOVERNMENT OF MADRAS.

PART II.

DETAIL OF BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Sub Head of Classification.	Item No.	Details of Works and Locality.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Grant, 1878-79. Ordinary.	Grant, 1878-79. Extraordinary.	Item No.	Remarks and References.
			KISTNA DELTA SYSTEM—(Continued).							
			(3.) Distributaries.							
			Nizampatam Canal—							
Western Delta ...	C. Works	138	Mippr Sluices	Rs. 2,000	Rs. ...	Rs. 1,000	Rs. 1,000	Rs. ...	138	G.O., No. 3,408, of 30th November 1875.
			Total, Western Delta ...	...	...	...	3,966	78,261		
			Total, Kistna Delta System ...	...	...	...	6,603	1,92,703		
			CHEMBRAMBAUKAM TANK.							
			(2A.) Reservoirs.							
	C. Works	139	Embanking lower part of New Bungaroo Channel	2,650	...	...	2,650	...	139	G.O., No. 102 I, of 25th June 1877, Government of India register, No. 31 I, of 1877-78 (G.O., No. 515 I, of 22nd November 1877.)
		140	Constructing Meypoor Sluice	4,605	4,349	...	256	...	140	
		141	Poonamallee Sluice	11,340	11,094	...	246	...	141	
		142	Chetti Sluice	8,433	6,468	...	251	...	142	
Mount		143	Mangadu Sluice	1,308	1,024	...	284	...	143	
		144	Cunnatoor Sluice	7,993	7,777	...	216	...	144	
		145	Palanthandalam Sluice	1,429	1,305	...	124	...	145	
	O. Miscellaneous ...	146	Gauges at Koratoor and Kesavaram Anicuts and at Mangadu Sluice.	420	57	74	222	...	146	
		147	Sundries	9,365	8,619	...	100	...	147	
			Total, Chembrambaukam Tank ...	...	...	...	4,349	...		
			CAUVERY DELTA SYSTEM.							
			(2.) Main Canals and Branches.							
Tanjore	D. Regulators	148	Constructing Regulating Works on the Kodumurti and Tirumalarajanar rivers.	31,380	...	4,714	15,000	...	148	G.O., No. 374 of 4th October 1877, Government of India register, No. 227 I, of 1877-78.
			Total, Cauvery Delta System ...	...	...	...	15,000	...		
			SRIVAIKUNTHAM ANICUT SYSTEM.							
			(2.) Main Canals and Branches.							
			South Main Channel—							
	L. Earthworks ...	149	Improvements (South Main Channel) ...	67,000	66,986	...	...	9,000	149	G.O., No. 270 I, of 29th January 1876.
			North Main Channel—							
	N. Tanks and Reservoirs...	150	Oopar Odai Escape Weir	39,310	34,732	180	...	200	150	
		151	Pattacolum tank revetment	11,920	6,163	500	...	1,100	151	
		152	Korampallum do. do. ...	70,880	62,910	5,690	...	2,280	152	
			(3.) Distributaries.							
Tinnevelly ...			South Main Channel—							
			Head Sluices and dividing dams	36,001	44,079	...	...	659	153	
	C. Works	153	Improvements	71,365	92,357	...	...	13,210	154	
	L. Earthworks ...	154	North Main Channel—							
			Head Sluices and dividing dams	15,841	5,741	...	...	1,159	155	
	C. Works	155	Improvements	39,612	14,112	...	...	1,892	156	
	L. Earthworks	156								
			Total, Srivaikuntam Anicut System ...	...	...	...	...	29,500		

GOVERNMENT OF MADRAS.

PART II—

DETAIL OF THE BUDGET ESTIMATE FOR WORKS (Continued).

UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Grant, 1878-79. Extraordinary.	Grant, 1878-79. Ordinary.	Item No.	Remarks and References.
		REVENUE, EXTENSIONS AND IMPROVEMENTS.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Godavari Delta System—								
...	...	Eastern Delta Division	...	...			...	4,000	...	
...	...	Central do.	...	...		...	...	2,000	...	
...	...	Western do.	...	...		...	...	5,000	...	
		Kistna Delta System—		...		...	...		...	
...	...	Eastern Delta Division	...	...			...	1,500	...	
...	...	Western do.	...	...		...	...	2,500	...	
		Penner Anicut System—		...		...	...		...	
...	...	Nellore Southern Division	...	...		...	...	...	...	
		Chembrambakam Tank—		...		...	...		...	
...	...	Mount Division	...	...		...	...	1,000	...	The provision is for minor improvements for the most part within the limit of District Engineers' power of sanction.
		Palar Anicut System—		...		...	...	1,000	...	
...	...	Vellore Division	...	...		...	...	1,000	...	
...	...	Wallajah do.	...	...		...	...		...	
...	...	Chingleput do.	...	...		...	...	...	...	
		Pelandorai Anicut System—		...		...	...	4,000	...	
...	...	Virdachellum Division	...	...		...	...	4,000	...	
		Cauvery Delta System—		...		...	...	1,000	...	
...	...	Tanjore Division	...	...		...	...	1,000	...	
...	...	Mayavaram do.	...	...		...	...		...	
...	...	Negapatam do.	...	...		...	...	6,000	...	
...	...	Manargudi do.	...	...		...	...		...	
		Srivaikuntham Anicut System—		...		...	...	34,000	...	
...	...	Tinnevelly Division	...	...		...	...		...	
		Total, Revenue Extensions and Improvements ...	...							
		ORDINARY AGRICULTURAL WORKS FOR WHICH NO CAPITAL OR REVENUE ACCOUNT IS KEPT.								
		(1.) Irrigation.								
	1	Godavari.—Improvements to Byana weir							1	G.O., No. 1 I, of 1st May 1877.
	2	Kurnool.—Improving Peddakambam channel	C.	16,580	393	8,311	...	...	2	G.O., No. 370 I, of 13th October 1877.
...	3	New head of Kathwa channel	C.	19,470	...	...	...	...	3	Do. do.
			C.	3,280	...	...	...	...		
		Madras Water Works.								
		Cholavaram Tank Supply Channel.							4	
	4	Chingleput.—Katankal surplus weir extension	C.	19,000	20	...	...	...	5	
...	5	Raising No. 2 bridge	C.	560	...	...	...	...	6	
...	6	Busikal surplus weir extension	C.	17,400	...	...	...	...		
		Red Hills Tank Supply Channel.							7	
...	7	Levelling the head of the channel ...	C.	420	...	...	...	...		
		Cholavaram Tank.							8	G.O., No. 2,785, of 17th October 1876. G O., No. 240, of 25th June 1872; Government of India, Register No. 7 A I of 1868-69. Revised estimate is ready, with the exception of land compensation.
...	8	Reconstructing west weir	C.	630	...	...	...	...		
		Distribution.							9	
...	9	Maranambedu channel ...			...	...	...	...		
...		Red Hills tank, north sluice	C.	23,350						
...		Velangadupakam channel								
		Madavaram channel							10	
...	10	General.			1,55,899	10,000	...	...		
		Compensation for land	C.	1,85,964	...	...	...	...	11	
	11	Total, Madras Water Works ...	...	...						

GOVERNMENT

PART II.

DETAIL OF THE BUDGET ESTIMATE FOR WORKS

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.
				Rs.
...	12	Tanjore.—Improving under-sluices—		
...	13	Lower Coleroon Anicut	C.	8,720
...	14	Coimbatore.—Constructing head-sluice for the Chittra-chavadi Channel.	C.	4,160
...	15	Arkenkotta Channel Manganary jungle stream disposal.	C.	...
		Tinnevelly.—Melakallur tank	C.	11,000
		(3.) River Embankments.		
...	16	Godavari.—Embankment, left bank of Godavery to Gowtami-Godavery, Rajamundry to Yanam, Eastern Delta.	C.	57,990
...	17	Do. Embankment of Vasista-Godavery above Gunnaram aqueduct, Central Delta.	C.	34,400
...	18	Do. Embankment right bank of Gowtami-Godavery and Virdi-Gowtami-Godavery, head of Central Delta to Mokaltippa.	C.	68,670
...	19	Do. Polaveram Island embankment, Central Delta.	C.	59,150
...	20	Do. Embankment left bank of Vasista-Godavery from Gunnarum aqueduct to Ambravetti	C.	28,075
...	21	Do. Embankment from Vijeswaram to Polavaram, Ellore Division.	C.	1,48,730
...	22	Do. Embankment left bank Godavery Purushottaputnum to Rajahmundry.	C.	1,25,110
...	23	Kistna.—Left embankment, Eastern Delta	C.	50,000
...	24	Nellore.—Improving right embankment from Narasimmakonda to the Penner Anicut.	C.	42,800
...	25	Do.—Improving right embankment from Penner Anicut to the sea.	C.	61,450
...	26	Kistna.—Towing-path, Nizampatam Canal	C.	8,930
...	27	Minor Works	C.	...
		Total ...	...	...

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(Continued).

UNDER IRRIGATION FOR THE YEAR 1878-79.

Outlay.		Grant, 1878-79.		Item No.	Remarks and References.
To end of 1876-77.	Probable during 1877-78.	Extraordinary.	Ordinary.		
Rs.	Rs.	Rs.	Rs.		
...	...	...	...	12	G.O., No. 70 I, of 25th January 1878.
...	...	...	...	13	G.O., No. 406 I, of 15th October 1877.
...	...	...	...	14	Estimate awaited. Estimate postponed.
...	3,540	...	...	15	G.O., No. 3,194, of 11th November 1874.
6,596	...	...	...	16	G.O., No. 2,575, of 27th September 1876.
...	...	...	...	17	G.O., No. 3,373, of 12th December 1876.
...	...	...	...	18	G.O., No. 346 I, of 25th September 1877.
27,069	3,019	...	...	19	G.O., No. 95 I, of 22nd June 1877.
...	...	...	...	20	Estimate under consideration.
39,700	7,678	...	...	21	G.O., No. 1,998, of 14th August 1876.
44,082	...	...	...	22	
...	...	...	...	23	G.O., No. 3,528, of 22nd December 1876.
25,349	6,000	...	...	24	G.O., No. 1,946, of 1st August 1876.
25,233	25,000	...	...	25	G.O., No. 1,946, of 1st August 1876.
2,458	3,600	...	...	26	G. O., No. 1,415, of 21st May 1875.
...	...	...	2,16,316	27	*Vide* Schedule showing distribution of Grants by Districts and Divisions.
...	...	...	2,16,316		

GOVERNMENT OF MADRAS.

PART II.

GENERAL ABSTRACT OF THE GRANTS PROVIDED FOR IN THE PRECEDING ESTIMATE.

	Imperial Funds.			Contributions.	Local Funds.	Total.
	In India.	In England.	Total.			
EXTRAORDINARY.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godavari Delta System	2,19,190	...	2,19,190	...	...	2,19,190
Kistna do.	1,92,703	...	1,92,703	...	...	1,92,703
Pénner Anicut System	...	...	...	...	...	...
Pelandorai do.	...	...	...	...	...	...
Cauvery Delta System	...	...	...	...	...	...
Srivaikuntham Anicut System	29,500	...	29,500	...	...	29,500
	4,41,393	...	4,41,393	...	...	4,41,393
ORDINARY.						
Capital.						
Godavari Delta System	9,146	...	9,146	...	...	9,146
Kistna do.	6,603	...	6,603	...	...	6,603
Chembrambakam tank	4,349	...	4,349	...	...	4,349
Palar Anicut System	...	...	...	...	...	...
Cauvery Delta do.	15,000	...	15,000	...	...	15,000
	35,098	...	35,098	...	...	35,098
Revenue, Extensions and Improvements.						
Godavari Delta System	11,000	...	11,000	...	...	11,000
Kistna do.	4,000	...	4,000	...	...	4,000
Penner Anicut System	...	...	...	...	...	...
Chembrambakam tank	...	...	...	...	...	...
Palar Anicut System	3,000	...	3,000	...	...	3,000
Pelandorai Anicut System	...	...	...	...	...	...
Cauvery Delta do.	10,000	...	10,000	...	...	10,000
Srivaikuntham Anicut System	6,000	...	6,000	...	...	6,000
	34,000	...	34,000	...	...	34,000
Ordinary Agricultural Works.						
Irrigation	1,70,316	..	1,70,316	...	...	1,70,316
River Embankments	4,500	...	4,500	...	...	4,500
Drainage	3,700	...	3,700	...	...	3,700
Miscellaneous	2,800	...	2,800	...	...	2,800
	2,16,316	...	2,16,316	...	...	2,16,316
Total, Ordinary	2,85,414	...	2,85,414	...	...	2,85,414
Grand Total, Ordinary and Extraordinary	7,26,807	...	7,26,807	...	...	7,26,807

GOVERNMENT OF MADRAS.

3062/18

PART II.

MINOR NEW WORKS.

ORDINARY AGRICULTURAL.

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total for each District.	Amount.	Total for each District.
	Rs.	Rs.	Rs.	Rs.
(1.) Irrigation.				
ijam District—				
Berampore Division	1,500		1,300	
Chicacole do.	3,000	4,500	1,804	3,104
zagapatam District—				
Golcondah Division	2,000	2,000	1,800	1,800
davari District—				
Ellore Division	3,500		2,200	
Rajahmundry Division	4,000	7,500	2,800	5,000
istna District—				
Guntoor Division	6,500		6,500	
Eastern Delta do.	500	7,000	500	7,000
ellore District—				
Southern Division	2,000		2,000	
Central do.	3,000		2,500	
Northern do.	2,000	7,000	2,000	6,500
uddapah District—				
Sidhout Division	5,000		4,500	
Cuddapah do.	3,500		3,000	
Madnapully do.	2,500	11,000	2,000	9,500
Kurnool District—				
Kurnool Division	4,000		5,500	
Nundial do.	2,500		2,750	
Cumbum do.	3,500	10,000	2,750	11,000
Bellary District—				
Bellary Division	500		250	
Hospett do.	1,500		1,050	
Ghooty do.	2,500		3,500	
Pennacondah Division	2,500	7,000	2,200	7,000
Chingleput District—				
Chingleput Division	8,000		8,000	
Mount do.	3,300		3,300	
Siruloor do.	5,000	16,300	5,000	16,300
North Arcot District—				
Wallajah Division	3,800		2,500	
Chittoor do.	3,000		4,000	
Vellore do.	4,000		2,000	
Polur do.	4,000	14,800	2,500	11,000

GOVERNMENT OF MADRAS.

PART II.
MINOR NEW WORKS.
ORDINARY AGRICULTURAL.

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total for each District.	Amount.	Total for each District.
	Rs.	Rs.	Rs.	Rs.
South Arcot District—				
Cuddalore Division	5,000		7,000	
Tindevanum Division	2,000		2,000	
Virdachellum do.	5,000		4,000	
		12,000		13,000
Salem District—				
Salem Division	6,000		6,000	
Oossoor do.	5,000		6,500	
Tripatore do.	5,000		4,500	
		16,000		17,000
Tanjore District—				
Tanjore Division	750		2,000	
Mayaveram do.	750		500	
Manargudi do.	1,000		1,000	
		2,500		3,500
Trichinopoly District—				
Trichinopoly Division	4,000		4,000	
Musery do.	2,000		2,000	
Wudiarpolliem do.	1,500		1,000	
		7,500		7,000
Coimbatore District—				
Coimbatore Division	3,000		1,820	
Colligal do.	500		850	
Caroor do.	3,000		2,000	
Irrigation do.	1,000		830	
		7,500		5,500
Malabar District—				
Cochin Division	500		500	
		500		500
Madura District—				
Madura Division	6,000		2,000	
Dindigul Division	5,000		2,000	
		11,000		4,000
Tinnevelly District—				
Northern Division	5,000		4,000	
Tinnevelly do.	13,716		3,500	
Shermadavy do.	7,500		3,500	
		26,216		11,000
Total, Irrigation		1,70,316		1,39,704
(2). River Conservancy.				
Kistna District—				
Guntoor Division			600	
Eastern Delta do.			400	
				1,000
Nellore District—				
Southern Division			1,000	
				1,000
Chingleput District—				
Chingleput Division			500	
Mount do.			200	
Sirulur do.			500	
				1,200

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GOVERNMENT OF MADRAS.

PART II.
MINOR NEW WORKS.
ORDINARY AGRICULTURAL.

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total for each District.	Amount.	Total for each District.
	Rs.	Rs.	Rs.	Rs.
North Arcot District—				
Wallajah Division			200	
Chittoor do.			100	
Vellore do.			100	
Polur do.				500
South Arcot District—				
Cuddalore Division			500	
Virdachellum do.				500
Tanjore District—				
Tanjore Division			1,000	
Mayavaram do.			750	
Negapatam do.			500	
Manargudi do.			250	
				2,500
Coimbatore District—				
Colligal Division			500	
Caroor do.			400	
Irrigation do.			300	
				1,200
Total, River Conservancy				7,900
(3). River Embankments.				
Ganjam District—				
Berhampore Division	500	500		
Kistna District—				
Guntoor Division	500		600	
Eastern Delta Division	500		400	
		1,000		1,000
Cuddapah District—				
Sidhout Division	500	500		
Chingleput District—				
Chingleput Division	500			
Sirulur do.	500			
		1,000		
North Arcot District—				
Wallajah Division			200	
Chittoor do.			800	
Vellore do.	500		800	
Polur do.			200	
		500		2,000
Coimbatore District—				
Coligal Division	200		500	
Caroor do.	600		600	
Irrigation	200		200	
		1,000		1,300
Total, River Embankments		4,500		4,300
(4). Drainage.				
Kistna District—				
Guntoor Division	800			
Eastern Delta do.	200			
		1,000		
Nellore District—				
Southern Division	500	500	500	500

GOVERNMENT OF MADRAS.

PART II.
MINOR NEW WORKS.
ORDINARY AGRICULTURAL.

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total for each District.	Amount.	Total for each District.
	Rs.	Rs.	Rs	Rs.
North Arcot District—				
Wallajah Division	200		50	
Chittoor do.	...		50	
Vellore do.	...		50	
Polur do.	...		50	
		200		200
Tanjore District—				
Tanjore Division	...		750	
Mayavaram do.	500		500	
Negapatam do.	...		250	
Manargudi do.	...		500	
		500		2,000
Trichinopoly District—				
Trichinopoly Division	500		2,480	
Musery do.	500		270	
Wudiarpolliem do.	500		2,500	
		1,500		5,250
Total, Drainage ...	...	3,700	...	7,950
(5). Miscellaneous.				
Godavari District—				
Eastern Delta Division	500		...	
		500		...
Kistna District—				
Eastern Delta Division	500		1,000	
		500		1,000
Nellore District—				
Southern Division ...	500		500	
		500		500
Cuddapah District—				
Sidhout Division	...		500	
Cuddapah do.	500		400	
Madanapully do.	...		400	
		500		1,300
Bellary District—				
Hospett Division	60		60	
Ghooty do.	70		70	
Pennacondah do.	70		70	
		200		200
Chingleput District—				
Chingleput Division	50		50	
Mount do.	100		100	
Siruloor do.	50		50	
		200		200
North Arcot District—				
Wallajah Division	...		100	
Chittoor do.	100		50	
Vellore do.	...		50	
Polur do.	...		100	
		100		300

GOVERNMENT OF MADRAS.

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PART II.
MINOR NEW WORKS.
ORDINARY AGRICULTURAL.

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total for each District.	Amount.	Total for each District.
	RS.	RS.	RS.	RS.
Tanjore District—				
Tanjore Division	...		...	
Mayavaram do.	...		200	
Manargudi do.	...		100	
Negapatam do.	...		100	
		...		500
Trichinopoly District—				
Trichinopoly Division	200		...	
Musery do.	100		...	
Wudiarpolliem do.	...		...	
		300		...
Total, Miscellaneous ...	...	2,800	...	4,000
Reserve at the disposal of Government ...	...	35,000		54,274
Total, Minor New Works ...	...	2,16,316	...	2,18,128

GOVERNMENT OF MADRAS.

PART II—

DETAIL OF THE BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

(MADRAS FORM.)

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Outlay. Total.	Grant, 1878-79. Extraordinary.	Grant, 1878-79. Ordinary.	Item No.	Remarks and References.
		GODAVARI DELTA SYSTEM.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
		(1.) Head Works.									
	1	Rest-houses	...	13,285	12,957	309	13,266	...	...	1	Including Rs. 3,000 and Rs. 285 sanctioned in G.O., No. 2,416, of 14th October 1872; and No. 203 I, of 31st July 1877.
	2	Improvements to under sluices at Dowlaishvaram	...	8,650	...	...	...	...	5,000	2	G.O., No. 405 of 13th May 1878.
	3	Do. do. to Vijeshvaram	...	8,700	...	...	...	...	4,000	3	G.O., No. 73 I, dated 25th January 1878.
	4	Total ... {Extraordinary ... {Ordinary ...	A A	13,285 17,350	12,957 ...	309 ...	13,266 ...	... ...	... 9,000	4	
		(2.) Main Canals and Branches.									
	5	Main canal	...	45,950	37,270	785	38,055	1,000	...	5	
	6	Samulcottah canal	...	1,15,380	1,08,910	1,350	1,10,260	500	...	6	Inclusive of Rs. 3,680 sanctioned in G.O., No. 2,577, of 6th August 1869.
	7	Cocanada do.	...	1,64,345	1,58,132	1,736	1,59,868	5,500	...	7	Revised estimate promised.
	8	Mandapetta do.	...	34,450	33,571	...	33,571	...	...	8	Revised estimate sanctioned in G.O., No. 1,281, of 22nd May 1876.
	9	Bank do.	...	2,20,100	1,72,416	26,678	1,99,094	12,500	...	9	
	10	Coringa do.	...	55,689	37,494	4,184	41,678	5,200	...	10	Inclusive of Rs. 846 sanctioned in G.O., No. 4, of 4th January 1875.
	11	Injeram do.	...	22,526	8,601	6,197	14,798	800	...	11	Inclusive of Rs. 2,203 sanctioned in G.O., No. 230, of 24th January 1872.
	12	Compensation for land taken up for channels completed in former years.	...	...	...	...	...	...	146		
Eastern Delta ...		Total ... {Extraordinary ... {Ordinary ...	A A	6,58,440 ...	5,56,394 ...	40,930 ...	5,97,324 ...	25,500 ...	... 146	12	
		(3.) Distributaries.									
	13	Samulcottah canal	...	23,700	14,652	3,208	17,860	3,400	...	13	
	14	Cocanada do.	...	29,000	21,821	4,718	26,539	10,000	...	14	Revised estimate promised.
	15	Mandapetta do.	...	14,984	4,840	6,370	11,210	2,500	...	15	Revised estimate sanctioned in G.O., No. 1,281, of 22nd May 1876.
	16	Bank do.	...	13,100	...	...	...	13,100	...	16	
	17	Coringa do.	...	26,000	11,854	5,099	16,953	4,500	...	17	
	18	Injeram do.	...	11,000	5,662	849	6,511	...	...	18	
	19	Total ... {Extraordinary ... {Ordinary ...	A A	1,17,784 ...	58,829 ...	20,244 ...	79,073 ...	33,500 ...	... ...	19	
		(4.) Drainage and Protective Works.									
	20	Bikkavole drain	...	71,300	45,898	2,025	47,923	5,000	...	20	
	21	Thuliabaga drain	...	1,50,966	96,937	14,730	1,11,667	5,000	...	21	
	22	Taki drain	...	2,88,000	97,294	9,076	1,06,370	20,000	...	22	Inclusive of Rs. 3,700 sanctioned in G.O., No. 4, of 4th January 1875.
	23	Mandapetta canal drain	...	159	342	...	342	...	...	23	Revised estimate sanctioned in G.O., No. 1,281, of 22nd May 1876.
	24	Total ... {Extraordinary ... {Ordinary ...	A A	5,10,425 ...	2,40,471 ...	25,831 ...	2,66,302 ...	30,000 ...	... ...	24	
	25	Total, Eastern Delta ... {Extraordinary ... {Ordinary ...	A A	12,99,934 17,350	8,68,651 ...	88,074 ...	9,56,725 ...	89,000 ...	... 9,146	25	Government of India, Register Nos. 132 A I, of 1868-69; 26 C, of 1870-71; 21 I, of 1871-72; 5 I, of 1874-75; 120 A I, of 1873-74; 91 I, of 1876-77 .. .. Rs. 12,89,505 Additions by Madras Government as per orders quoted above 10,429 12,99,934
	26	(2.) Main Canals and Branches. Main canal	...	...	...	8,500	8,500	10,000	...	26	
	27	Gunnaram canal	...	...	...	...	...	15,000	...	27	Estimates under review.
	28	Bank do.	...	...	...	...	...	15,000	...	28	
	29	Amalapur	...	...	...	...	...	...	...	29	
Central Delta ...	30	Billakarru	...	...	...	...	...	...	...	30	
	31	Bendamurlanka	...	...	...	...	...	...	...	31	
	32	Total ... {Extraordinary ... {Ordinary ...	A A	... ...	... ...	8,500 ...	8,500 ...	40,000 ...	... ...	32	

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GOVERNMENT

PART II—

DETAIL OF THE BUDGET ESTIMATE FOR WORKS

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.
		GODAVARI DELTA SYSTEM—(Continued).		Rs.
		(1.) Head Works.		
	33	Rest-houses	...	22,997
	34	Total ... { Extraordinary ... / Ordinary ...	A ...	22,997 ...
		(2.) Main Canals and Branches.		
	35	Main canal	...	53,650
	36	Ellore canal	...	59,604
	37	Kakaraparru canal	...	36,650
	38	Narsapore do.	...	1,79,664
	39	Bank do.	...	1,05,333
	40	Venkaiya and Weyeru canal	...	1,565
	41	Undi canal	...	83,760
	42	Attili do.	...	57,252
	43	Gostanadi and Velpur canal	...	1,16,450
	44	Junction canal and Nandamur weir	...	78,218
	45	Total ... { Extraordinary ... / Ordinary ...	A ...	7,72,146 ...
Western Delta ...		(3.) Distributaries.		
	46	Ellore canal	...	1,17,180
	47	Kakaraparru canal	...	675
	48	Narsapur do.	...	31,736
	49	Bank do.	...	10,207
	50	Venkaiya and Weyeru canal	...	14,399
	51	Undi canal	...	25,340
	52	Attili do.	...	23,958
	53	Gostanadi and Velpur canal	...	15,330
	54	Total ... { Extraordinary ... / Ordinary ...	A ...	2,38,825 ...
		(4.) Drainage and Protective Works.		
	55	Narsapur canal	...	700
	56	Gostanadi drain	...	94,000
	57	Yenamadurru drain	...	28,800
	58	Nakala drain	...	13,200
	59	Bondada drain	...	9,900
	60	Rudrayakodu drain	...	1,650
	61	Kaza drain	...	10,588
	62	Baggeswaram drain	...	6,050
	63	Minor drains	...	4,840
	64	Attili canal drains	...	690
	65	Ellore do.	...	99,820

2062/22

OF MADRAS.

(MADRAS FORM).

UNDER IRRIGATION FOR THE YEAR 1878-79.

Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Outlay. Total.	Grant 1878-79. Extraordinary.	Grant 1878-79. Ordinary.	Item No.	Remarks and References.
Rs.	Rs.	Rs.	Rs.	Rs.		
21,813	970	22,783	40	...	33	Revised estimate sanctioned in G.O., No. 2,929, of 2nd November 1876.
21,813 ...	970 ...	22,783 ...	40 ...	... ...	34	—
43,511	6,200	49,711	3,300	...	35	Revised estimate sanctioned in G.O., No. 2,929, of 2nd November 1876.
26,705	21,300	48,005	16,200	...	36	Sanctioned by Government of India, Register No. 13 I, of 1877-78; G.O., No. 166 I, of 13th July 1877.
19,989	1,000	20,989	3,000	...	37	Inclusive of Rs. 3,650 sanctioned in G.O., No. 38, of 7th January 1875.
1,52,505	17,200	1,69,705	11,050	...	38	Revised estimate sanctioned in G.O., No. 238 I, of 17th August 1877.
67,588	18,500	86,088	18,200	...	39	Revised estimate sanctioned in G.O., No. 7 I, of 1st May 1877.
1,565	...	1,565	...	...	40	
38,245	1,580	39,825	9,000	...	41	
52,989	500	53,489	500	...	42	Revised estimate sanctioned in G.O., No. 1,277, of 14th April 1877.
91,836	3,900	95,736	...	...	43	Revised estimate for portions were sanctioned in G.O., No. 1,388, of 15th May 1875.
73,604	100	73,704	...	...	44	Revsed estimate sanctioned in G.O., No. 2,929, of 2nd November 1876.
5,68,537 ...	70,280 ...	6,38,817 ...	61,250 ...	... ...	45	
96,583	5,900	1,02,483	4,400	...	46	Revised estimate sanctioned by Government of India, Register No. 13 I, of 1877-78.—*Vide* G.O., No. 166 I, of 13th July 1877.
...	...	...	...	...	47	
13,933	5,650	19,583	5,500	...	48	Revised estimate sanctioned in G.O., No. 238 I, of 17th August 1877.
4,219	1,000	5,219	1,000	...	49	Do. do. in G.O., No. 7 I, of 1st May 1877.
2,181	300	2,481	2,000	...	50	Do. do. in G.O., No. 2,929, of 2nd Nov. 1876.
4,223	2,400	6,623	3,500	...	51	
18,547	2,300	20,847	600	...	52	
2,301	600	2,901	1,500	...	53	
1,41,987 ...	18,150 ...	1,60,137 ...	18,500 ...	... ...	54	
...	...	...	...	...	55	Revised estimate sanctioned in G.O., No. 238 I, of 17th August 1877.
17,250	1,150	18,400	100	...	56	
13,747	...	13,747	1,000	...	57	
9,899	...	9,899	...	...	58	
3,563	450	4,013	6,200	...	59	
6,050	100	6,150	...	...	60	
2,413	100	2,513	...	...	61	Government of India, Register No. 34 I, of 1877-78; G.O., No. 522 I, of 23rd November 1877.
2,092	...	2,092	...	...	62	
85,230	3,526	88,756	2,100	...	63	
					64	
					65	Revised estimate sanctioned by the Government of India, Register No. 13 I, of 1877-78; G.O., No. 166 I, of 13th July 1877.

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GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

DETAIL OF THE BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.
		GODAVARI DELTA SYSTEM—(Continued).		
		(4.) Drainage and Protective Works—(Continued).		Rs.
		Brought forward ...		
	66	Mogultur drain	...	24,232
	67	Undi canal drain	...	1,600
Western Delta—(*Continued*).	68	Total ... {Extraordinary ... / Ordinary ...}	A / ...	2,96,070 / ...
	69	Total, Western Delta ... {Extraordinary ... / Ordinary ...}	... / ...	13,30,038 / ...
	70	Total, Godavery Delta System ... {Extraordinary ... / Ordinary ...}	A / A	26,29,972 / 17,350
		KISTNA DELTA SYSTEM.		
		(1.) Head Works.		
		Raising head works, eastern side	...	440
	71	Total ... {Extraordinary ... / Ordinary ...}	... / ...	440 / ...
	72	**(2.) Main Canals and Branches.**		
	73	Main canal	...	1,13,530
				10,940
	74	Masulipatam canal	...	1,73,090
				2,13,520
	75	Ryves' canal		1,950*
	76	Bank do.	...	4,03,093
	77	Ellore do.	...	8,35,445
				1,37,560
	78	Polrazkodu canal	...	330*
	79	Pulleru canal	...	1,41,400
				48,660
	80			357*
		Total ... {Extraordinary ... / Ordinary ...}	A / ...	20,77,168 / 2,637
Eastern Delta ...		**(3.) Distributaries.**		
	81	Pulleru canal	...	8,870
	82	Masulipatam canal	...	30,000
	83	Ryves' canal	...	5,000
	84	Bank do.	...	1,86,217
	85	Ellore do.	...	46,915
		Polrazkodu canal	...	1,53,012
	86	Total ... {Extraordinary ... / Ordinary ...}	A / ...	4,30,014 / ...
		(4.) Drainage and Protective Works.		
		Bank canal	...	48,653
		Ellore canal	...	36,795
	87	Polrazkodu canal	...	3,655
	88	Pullava main drain	...	20,080
	89	Damidi drain	...	3,209
	90	Peddalanka drain	...	98,240
		Peddakommaleru drain	...	41,686
	91	Total ... {Extraordinary ... / Ordinary ...}	A / ...	2,52,318 / ...
	92	Total, Eastern Delta ... {Extraordinary ... / Ordinary ...}	A / A	27,59,940 / 2,637

Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Outlay. Total.	Grant, 1878-79. Extraordinary.	Grant, 1878-79. Ordinary.	Item No.	Remarks and References.
Rs.	Rs.	Rs.	Rs.	Rs.		
19,019	3,050	22,069	1,000	...	66	Government of India, Register No. 35 I, of 1877-78; G.O., No. 522 I, of 23rd November 1877.
...	...	...	...	...	67	
1,59,263	8,376	1,67,639	10,400	...	68	
...	...	...	...	...		
8,91,600	97,776	9,89,376	90,190	...	69	Government of India, Register No. 49 I, of 1871-72; 120 AI, of 1873-74; 13 I, of 1877-78; Madras Government as per orders quoted above. Rs. 13,18,213 — 11,825 = 13,30,038
...	...	...	...	...		
17,60,251	1,85,850	19,46,101	2,19,190	...	70	
...	...	...	...	9,146		
...	440	440	...	...	71	
...	440	440	...	...	72	
...	...	...	...	...		
1,07,905	10,000	1,17,905	1,000	...	73	
...	7,560	7,560	3,440	...		
1,74,886	774	1,75,660	2,000	...	74	Government of India, Register No. 10 I, of 1871-72; and No. 7 A—I, of 1868-69. G.O., No. 3,342, of 26th Nov. 1874; No. 1,046, of 14th April 1875; No. 1,507, of 31st May 1875; No. 79, of 14th June 1876. Fresh estimates submitted to Government of India (*vide* G.Os., Nos. 3,528, of 22nd December 1876, and 3,528A, of 22nd December 1876. G.O., No. 132 I, of 14th February 1878. G.O., No. 9 I, of 1st October 1874.
...	...	...	...	1,950		
...	18,377	3,50,458	35,000	...	75	
3,32,081	...	...	10,787	...	76	
...	...	...	29,915	...	77	
...	...	...	...	330		
...	...	...	10,800	...	78	
...	...	...	2,000	...	79	
...	...	...	...	357		
6,14,872	36,711	6,51,583	94,942	...	80	The amounts of estimates marked thus (*) are sanctioned under Capital Ordinary.
...	...	...	...	2,637		
3,011	738	3,749	...	...	81	
118	...	118	...	...	82	
...	...	...	...	...	83	
...	...	...	...	...	84	
...	...	...	14,500	...	85	
3,129	738	3,867	14,500	...	86	
...	...	...	...	...		
...	...	...	...	...		
...	...	...	...	...		
...	...	...	...	...		
...	...	...	...	...	87	
...	...	...	...	...	88	
...	...	...	...	...	89	
...	...	...	5,000	...	90	
...	...	...	5,000	...	91	Government of India, Register No. 10 I, of 1871-72, and No. 7 A—I, of 1868-69. G.Os., No. 3,342, of 26th November 1874; No. 1,046, of 14th April 1875; No. 1,507, of 31st May 1875; No. 79, of 14th January 1876. Fresh estimates submitted to Government of India (*vide* G.O., No. 3,528, of 22nd December 1876; and No. 3,528 A, of 22nd December 1876).
...	...	...	...	...		
6,18,001	37,889	6,55,890	1,14,442	...	92	
...	...	...	...	2,637		

GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

DETAIL OF THE BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Outlay. Total.	Grant, 1878-79. Extraordinary.	Grant, 1878-79. Ordinary.	Item No	Remarks and References.
		KISTNA DELTA SYSTEM—(*Continued*).									
		(1.) Head Works.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
	93	Raising head works, western side	...	60	...	60	60	60	...	93	
	94	Total ... { Extraordinary ... / Ordinary ...	A / ...	60 / ...	... / ...	60 / ...	60 / ...	60 / ...	... / ...	94	
	95	(2.) Main Canals and Branches.									
	96	Main canal		5,47,570	...	8,653	8,653	5,000	302	95	* This amount includes Rupees 9,550 sanctioned for the improvements of Head sluice.
		Bank do.		302*	...	...	...	9,600	302	96	
	97	Nizampatam canal		3,06,530	...	...	...	3,885	1,455	97	
				302*	...	6,130	6,130	59,716	907	98	
	98	Commamur do.		10,545	...	...	...	78,201	...	99	
				7,54,010	...	...	...	...	2,966		
				1,099							
	99	Total ... { Extraordinary ... / Ordinary ...	A / A	16,18,755 / 1,703	... / ...	... / ...	... / ...	... / ...	... / 1,000	100 / 101 / 102	
Western Delta—(*Continued*).	100	(3.) Distributaries.									
	101	Main canal		...	...	1,000	1,000	...	...	103	G.O., No. 3,572, of 19th December 1874.
	102	Bank do.		1,41,470	...	3,510	3,510				
		Nizampatam canal		16,495	...	3,510	3,510	...	...	104	The amounts of Estimates marked thus (*) are sanctioned under capital ordinary.
	103	Commamur canal		2,000*	...	1,000	1,000	..	1,000		
	104	Total ... { Extraordinary ... / Ordinary ...	A / A	1,74,520 / 3,32,485	... / ...	... / ...	... / ...	... / ...	... / ...	105 / 106 / 107	
		(4.) Drainage and Protective Works.									
	105	Repalli drain		2,000	...	...	...	...	...	108	
	106	Tungabudra drain		...	...	...	...	...	...		
	107	Rompera do.		...	...	18,353	18,353	78,261	...	109	
	108	Total ... { Extraordinary ... / Ordinary ...		1,85,100 / 1,85,100	... / ...	1,000 / 56,242	1,000 / 6,74,243	... / 1,92,703	3,966 / ...		
	109	Total, Western Delta ... { Extraordinary ... / Ordinary ...	A / A	21,36,400 / 3,703	6,18,001 / ...	... / ...	... / ...	... / ...	6,603 / ...	110	
	110	Total, Kistna Delta System ... { Extraordinary ... / Ordinary ...	A / A	48,96,340 / 6,340	4,20,639 / 4,20,639	19,844 / 19,844	4,40,483 / 4,40,483	... / ...	4,349 / 4,349	111 / 112	Government of India, Register No. 31 I, of 1877-78. G.O., No. 515, of 22nd November 1877.
Mount	111	CHEMBRAMBAKAM TANK.									
		Chembrambakam Tank	...	5,06,366						113	Sanctioned in G.O., No. 509 I, of 20th November 1877.
	112	Total, Chembrambakam Tank ...	A	5,06,366							
		PALAR ANICUT SYSTEM.									
		(2.) Main Canals and Branches.									
	113	South main channel	...	5,300	...	...	...	...	...	114	
	114	Kaveripakum main channel	...	83,878	...	...	...	...	...	115	
Walaja and Vellore.	115	Do. tank supply channel	...	9,000	...	...	...	...	...	116	
	116	Govindavadi channel	...	2,11,648	...	...	...	...	...	117	
	117	Do. tank supply channel	...	12,000	...	...	...	...	...	118	Sanctioned in G.O., Nos. 715 I and 3,783 W of 10th and 25th September 1878.
	118	Kambakal channel	...	56,100	...	...	...	...	...	119	
	119	Mahindravadi channel	...	7,630	...	...	...	...	...	120	
	120	Total, Palar Anicut System ...	...	3,85,556							
		PELANDORAI ANICUT SYSTEM.									
Virudachalam ...	121	(1.) Head Works.									
		Anicut	...	78,580	73,338	5,242	78,580	...	...	121	G.O., No. 267 I, of 30th Aug. 1877. Estimate submitted to the Government of India—*Vide* No. 268 I, of 30th August 1877, and sanctioned by the Government of India in their letter, No. 352 I, of 22nd Dec. 1877.
	122	Total ...	...	78,580	73,338	5,242	78,580	...	...	122	

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GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

DETAIL OF THE BUDGET ESTIMATE FOR WORKS UNDER IRRIGATION FOR THE YEAR 1878-79.

Division.	Item No.	Particulars.	A, B, C Classes.	Amount of Estimate.	Outlay. To end of 1876-77.	Outlay. Probable during 1877-78.	Outlay. Total.	Grant, 1878-79. Extraordinary.	Grant, 1878-79. Ordinary.	Item No.	Remarks and References.
		PELANDORAI ANICUT SYSTEM—(*Continued*).		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
	123	(2.) Main Canals and Branches. Main channel	...	1,43,304	1,20,189	13,115	1,33,304	...	...	123	
	124		...	1,43,304	1,20,189	13,115	1,33,304	...	...	124	
Viruḍachalam—(*Continued*).	125	(3.) Distributaries. Branch channels		42,715	20,377	...	20,377	...	...	125	G.O., No. 267 I, of 30th August 1877. Estimate submitted to the Government of India.—*Vide* No. 268 I, of 30th August 1877, and sanctioned by the Government of India in their letter, No. 352 I, of 22nd December 1877.
	126	Minor channels	...	3,432				...	...	126	
	127		...		20,377	...	20,377	...	...	127	
	128		...	46,147	2,13,904	18,357	2,32,261	...	...	128	
		Total, Pelandorai Anicut System ...	...	2,68,031							
		CAUVERY DELTA SYSTEM.									
	129	(1.) Head Works. Upper Coleroon anicut, improving under sluices ...	...	11,580	...	...	...	...	...	129	G.O., No. 70 I, of 25th January 1878
	130		...	11,580	...	...	...	...	...	130	
Tanjore	131	(2.) Main Canals and Branches. Constructing regulating works on the Kodamurti and Tirumalrajanar rivers.	...	31,380	...	4,714	4,714	...	15,000	131	G.O., No. 374 I, of 4th October 1877.
	132		...		...	...	...	...	1,5000	132	
	133		A	31,380	...	...	...	...	15,000	133	
		Total, Cauvery Delta System ...	A	42,960							
		SRIVAIKUNTHAM ANICUT SYSTEM.									
	134	(1.) Head Works. Compensation for land		37,000	37,832	1,365	3,9197	...	...	134	
	135	Anicut	...	1,99,800	1,98,439	...	1,98,439	...	...	135	
	136	Puthugudi bungalow	...	3,888	3,888	...	3,888	...	...	136	
	137	Temporary sheds	...	4,859	4,834	...	4,834	...	...	137	
	138	Sundries	...	27,027	26,226	...	26,226	...	...	138	
	139	Damage to materials	...	5,000	5,000	...	5,000	...	...	139	
	140		...	2,77,574	2,76,219	1,365	2,77,584	...	...	140	
		(2.) Main Canals and Branches.									
	141	South main channel		97,580	96,487	2,744	99,231	9,000	...	141	
	142	North do.		3,46,647	3,28,572	16,500	3,45,072	3,580	...	142	
Tinnevelly		Compensation for land			...	1,000	1,000	...	...		
	143		...	4,44,227	4,25,059	20,244	4,45,303	12,580	...	143	Government of India Register No. 17 I, of 1868-69, and No. 65 I, of 1875-76. G.O., No. 844, of 16th March 1869, and No. 1,520, of 21st June 1872, and No. 270, of 29th January 1876. G.O., No. 746, of 5th March 1877.
		(3.) Distributaries.									
	144	South main channel		1,35,046	1,83,768	5,659	1,89,427	13,869	...	144	
	145	North do.		55,453				3,051	...	145	
	146		...	1,90,499	1,83,768	5,659	1,89,427	16,920	...	146	
		(4.) Drainage and Protective Works.									
	147	North main channel		27,200	26,913	...	26,913	...	...	147	
	148		...	27,200	26,913	...	26,913	...	...	148	
	149	Total, Srivaikuntham Anicut System ...	A	9,39,500	9,11,959	27,268	9,39,227	29,500	...	149	

GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79.

Item.	Main Head.	Name of Canals, &c.	Sub Head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Total.
			GODAVARI DELTA SYSTEM, EASTERN SECTION. EXTRAORDINARY.		Rs.	Rs.	Rs.	Rs.
5	(2.)—Main Canals and Branches.	Main Canal.	D. Regulators.	Improvements to head sluices.	17,890	12,656	1,000	1,000
6	Ditto ...	Samulcottah Canal.	B. Land ...	Compensation ...	...	1,886	500	500
13	(3.)—Distributaries.	Ditto ...	C. Works ...	Bridges over side channels.	2,430	...	2,400	
	Ditto ...	Ditto ...	L. Earthworks.	Side channels ...	15,200	11,443	1,000	3,400
7	(2.)—Main Canals and Branches.	Cocanada Canal.	B. Land ...	Compensation ...	6,545	1,483	500	
	Ditto ...	Ditto ...	L. Earthworks.	Improvements ...	38,120	38,120	5,000	5,500
14	(3.)—Distributaries.	Ditto ...	C. Works ...	Head sluices and dams.	21,000	15,547	8,000	
	Ditto ...	Ditto ...	L. Earthworks.	Minor channels ...	8,000	10,991	2,000	10,000
15	Ditto ...	Mandapetta Canal.	B. Land ...	Compensation ...	3,273	1,251	1,000	
	Ditto ...	Ditto ...	C. Works ...	Head-sluices and dams.	4,467	1,935	1,500	2,500
9	(2.)—Main Canals and Branches.	Bank Canal.	B. Land ...	Compensation ...	6,220	50	1,000	
	Ditto ...	Ditto ...	I. Navigation	Lock, 30th mile ...	20,600	11,691	10,000	
	Ditto ...	Ditto ...	Ditto ...	Lock weir, do. ...	3,200	1,000	1,500	12,500
16	(3.)—Distributaries.	Ditto ...	C. Works ...	Head sluices and dams.	5,600	...	5,600	
	Ditto ...	Ditto ...	L. Earthworks.	Minor channels ...	7,500	...	7,500	13,100
10	(2.)—Main Canals and Branches.	Coringa Canal.	B. Land ...	Compensation ...	6,543	637	1,000	
	Ditto ...	Ditto ...	L. Earthworks.	Improvements ...	41,180	32,968	4,200	5,200
17	(3.)—Distributaries.	Ditto ...	C. Works ...	Head sluices and dams.	18,000	10,941	4,500	
11	(2.)—Main Canals and Branches.	Injeram Canal.	B. Land ...	Compensation ...	3,273	...	800	4,500
21	(4.)—Drainage Works.	Thuliábagá.	L. Earthworks.	Improvements ...	1,31,710	97,459	5,000	800
20	Ditto ...	Bikkavole ...	Ditto ...	Improving main drains.	60,730	44,418	5,000	5,000
	Ditto ...	Táki Main ..	B. Land ...	Compensation ...	18,000	1,076	1,000	
22	Ditto ...	Ditto ...	L. Earthworks.	Improving main drain.	2,55,600	96,538	19,000	5,000
				Total, Extraordinary.	...	...	...	20,000
								89,000
				ORDINARY.				
2	(1.)—Head Works	Anicut ...	C. Works ...	Improvements to Dowlaishvaram under sluices.	8,650	...	5,000	5,000
	Ditto ..	Ditto ...	Ditto ...	Do. to Vijeshvaram under sluices.	8,700	...	4,000	4,000
3	(2.)—Main Canal and Branches.	...	B. Land ...	Compensation for land taken up for channels completed in previous years.			146	146
								9,146

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GOVERNMENT OF MADRAS.

PART II.—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79.

Item.	Main-Head.	Name of Canals, &c.	Sub-Head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Total.
			GODAVARI DELTA SYSTEM, CENTRAL SECTION. Extraordinary—(Continued).		Rs.	Rs.	Rs.	Rs.
26	(2.)—Main Canals and Branches.	Main Canal.	D. Regulators.	Improvements to head sluices at Bobberlanka.	15,315	8,500	10,000	10,000
27	Ditto ...	Gunarum Canal.	I. Navigation	Lock at Ralli ...	21,150	...	15,000	15,000
	Ditto ...	Bank Canal.	B. Land ...	Compensation ...				
28	Ditto ...	Ditto ...	I. Navigation	Lock weir at Meddapalayam.	...	...	15,000	15,000
	Ditto ...	Ditto ...	Ditto ...	Do. at Chintalanka.				
	Ditto ...	Ditto ...	Ditto ...	Do. at Tanilanka.				
				Total, Extraordinary	...	...	...	40,000
			WESTERN SECTION.					
33	(1.)—Head Works.	Anicut ...	B. Land ...	Compensation for Pavelli, Attili, Bhimaveram, and Akid Rest-houses.	896	850	40	40
	(2.)—Main Canals and Branches.	Main Canal.	Ditto ...	Compensation ...	2,500	1,000	1,000	
35	Ditto ...	Ditto ...	L. Earthworks.	Improvements to head sluice.	36,750	34,387	2,300	3,300
	Ditto ...	Ellore Canal	B. Land ..	Compensation ...	1,000	506	200	
36	Ditto ...	Ditto ...	F. River and hill torrent works.	Under tunnel at 20th mile.	10,300	8,000	4,000	
	Ditto ...	Ditto ...	L. Earthworks.	Improvements ...	46,100	35,703	12,000	16,200
	(3.)—Distributaries.	Ditto ...	B. Land ...	Compensation, mid-level channel.	7,440	1,984	500	
	Ditto ...	Ditto ...	Ditto ...	Do., low-level channel.	2,760	403	300	
46	Ditto ...	Ditto ..	C. Works ...	Minor masonry works.	15,450	10,958	3,000	
	Ditto ...	Ditto ...	Ditto ...	Twelve village sluices, mid-level channel.	5,040	4,630	400	
	Ditto ...	Ditto ...	L. Earth-Works.	Minor channels ...	7,560	5,981	200	4,400
37	(2.)—Main Canals and Branches.	Kakaraparru	B. Land ...	Compensation ...	2,000	1,000	500	
	Ditto ...	Ditto ...	L. Earthworks.	Improvements ...	31,000	16,343	2,500	3,000
	Ditto ...	Narsapore...	B. Land ..	Compensation ...	1,820	1,576	500	
	Ditto ...	Ditto ...	F. (1) Other cross drainage works.	Saripalli under tunnel.	7,000	5,000	2,000	
	Ditto ...	Ditto ...	I. Navigation	Lock at Marter ...	19,110	3,418	8,000	
38	Ditto ...	Ditto ...	Ditto ...	Lock weir at Marter.	1,310	1,000	300	
	Ditto ...	Ditto ...	Ditto ...	Do. at Kavittam ...	1,070	800	200	
	Ditto ...	Ditto ...	L. Earthwork.	Improvements to Marter lock weir channel.	300	250	50	
48	(3.)—Distributaries.	Ditto ...	C. Works ...	Minor masonry works.	20,471	9,325	5,000	11,050
	Ditto ...	Ditto ...	L. Earth work.	Minor channels ...	9,273	9,331	500	5,500

GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79.

Item.	Main-Head.	Name of Canals, &c.	Sub-Head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Total.
			GODAVARI DELTA SYSTEM, WESTERN SECTION. EXTRAORDINARY—(Contd.)		Rs.	Rs.	Rs.	Rs.
39	(2.)—Main Canals and Branches.	Bank ...	H. Escapes...	Mukkamala calingulah.	600	...	600	
	Ditto ...	Ditto ...	I. Navigation	Lock at Latchmipalem.	30,700	13,645	16,000	
	Ditto ...	Ditto ...	Ditto ...	Lock weir at Latchmipalem.	4,000	3,602	800	
	Ditto ...	Ditto ...	L. Earthwork.	Improvements ...	25,800	24,808	800	18,200
49	(3.)—Distributaries.	Ditto ...	C. Works ...	Minor masonry works.	5,227	3,644	1,000	1,000
50	Ditto ...	Venkaiya and Weyeru.	Ditto ...	Ditto ...	10,110	1,943	1,000	
	Ditto ...	L. Earthwork.	Ditto ...	Minor channels ...	4,289	539	1,000	2,000
41	(2.)—Main Canals and Branches.	Undi Canal.	H. Escapes	Surplus weir at 7½ mile.	4,910	623	3,000	
	Ditto ...	Ditto ...	Ditto ...	Surplus weir at 15¾ mile.	3,550	415	2,000	
	Ditto ...	Ditto ...	I. Navigation	Lock weir at 11½ mile.	5,110	457	3,000	
	Ditto ...	Ditto ...	L. Earthwork.	Improvements ...	26,600	20,839	1,000	9,000
51	(3.)—Distributaries.	Ditto ...	B. Land ...	Compensation ...	4,990	563	500	
	Ditto ...	Ditto ...	C. Works ...	Minor masonry works	8,200	600	1,000	
	Ditto ...	Ditto ...	L. Earthwork.	Minor channels ...	12,150	5,861	2,000	3,500
42	(2.)—Main Canals and Branches.	Attili ...	B. Land ...	Compensation ...	4,500	681	500	500
52	(3.)—Distributaries.	Ditto ...	C. Works ...	Minor masonry works	10,388	8,136	500	
	Ditto ...	Ditto ...	L. Earthworks.	Minor channels ...	13,620	12,711	100	600
53	Ditto ...	Gostanadi and Velpur.	B. Land ...	Compensation ...	5,750	3,432	500	
	Ditto ...	Ditto ...	C. Works ...	Minor masonry works.	9,580	2,559	1,000	1,500
56	(4.)—Drainages.	Gostanadi...	B. Land ...	Compensation ...	2,500	1,000	100	100
57	Ditto ...	Yenamaduru.	C. Works ...	Masonry inlets ...	8,670	...	1,000	1,000
61	Ditto ...	Kaza Drain.	B. Land ...	Compensation				
	Ditto ...	Ditto ...	C. Works ...	Outfall sluice ...	200	50	100	
	Ditto ...	Ditto ...	L. Earthworks.	Channel below outfall sluice.	6,325	...	6,000	
					500	400	100	6,200
65	Ditto ...	Ellore Canal Drain.	B. Land ...	Compensation ...	2,100	710	100	
	Ditto ...	Ditto ...	L. Earthworks.	Earthwork for drains.	15,924	13,494	2,000	2,100
66	Ditto ...	Mogultur ...	Ditto ...	Earthworks ...	21,069	18,896	1,000	1,000
				Total Extraordinary	...	...	...	90,190

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GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79.

Item.	Main-Head.	Name of Canals, &c.	Sub-Head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Total.
			KISTNA DELTA SYSTEM, EASTERN SECTION. Extraordinary.		Rs.	Rs.	Rs.	Rs.
73	(2.)—Main Canals and Branches.	Main Canal.	D. Regulators.	Improvements to head sluice.	9,940	6,560	3,440	
	Ditto ...	Ditto ...	L. Earthwork.	Masonry wall and revetment, north side.	24,835	24,494	1,000	4,440
74	Ditto ...	Masulipatam	Ditto ...	Completing sloping banks from 1st to 4th mile.	10,100	9,326	1,000	
	Ditto ...	Ditto ...	Ditto ...	Enlarging the canal from 4th to 12¼ miles.	65,000	65,046	1,000	2,000
75	Ditto ...	Ryves ...	B. Land ...	Compensation ...	3,000	3,218	1,000	
	Ditto ...	Ditto ...	E. Falls and Weirs.	Two calingulahs and bridges.	2,960	445	2,500	
	Ditto ...	Ditto ...	G. Bridges...	Bridge of 3 arches of 38 feet span at crossing Ellore road.	12,440	12,226	3,000	
	Ditto ...	Ditto ...	Ditto ...	Accommodation bridge across Pullery near Marrivada.	3,710	2,536	1,200	
	Ditto ...	Ditto ...	L. Earthwork.	New cut	2,76,880	2,43,420	19,500	
	Ditto ...	Ditto ...	Ditto ...	Widening Ryves' canal near Marrivada	58,180	51,364	7,800	35,000
76	Ditto ...	Bank ...	D. Regulators.	Head sluice ...	6,940	...	787	
	Ditto ...	Ditto ...	I. Navigation	Head lock	11,970	...	10,000	10,787
77	Ditto ...	Ellore ...	B. Land ...	Compensation ...	...	...	500	
	Ditto ...	Ditto ...	F. River and hill torrent works.	Improvements to Budemeru aqueduct.	1,880	...	1,880	
	Ditto ...	Ditto ...	Ditto ...	Ampapuram outlet...	1,235	...	1,235	
	Ditto ...	Ditto ...	Ditto ...	Do. inlet ...	1,280	...	1,280	
	Ditto ...	Ditto ...	Ditto ...	Viravelli outlet on 22nd mile.	380	...	380	
	Ditto ...	Ditto ...	Ditto ...	Nellivagu outlet on 23rd mile.	255	...	255	
	Ditto ...	Ditto ...	Ditto ...	Perikid outlet ...	6,720	...	6,720	
	Ditto ...	Ditto ...	Ditto ...	Pedapadu do. ...	2,765	...	2,765	
	Ditto ...	Ditto ...	Ditto ...	Watlar do. ...	4,900	...	4,900	
	Ditto ...	Ditto ...	Ditto ...	West Tammileru aqueduct alteration.	13,000	...	10,000	29,915
78	Ditto ...	Polrazkodu	B. Land ...	Compensation ...	...	...	1,000	
	itto ...	Ditto ...	D. Regulators.	Head sluice ...	800	...	800	
	Ditto ...	Ditto ...	L. Earthwork.	Improvements ...	31,600	...	9,000	10,800

GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79.

Item.	Main-Head.	Name of Canals, &c.	Sub-Head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Total.
			KISTNA DELTA SYSTEM, EASTERN SECTION—(Contd.)		Rs.	Rs.	Rs.	Rs.
85	(3.)—Distributaries.	Polrazkodu.	C. Works ...	Head sluice to Chevurkodu	500	...	500	
	Ditto ...	Ditto ...	L. Earthwork.	Kaikalur channel ...	8,450	...	6,000	
	Ditto ...	Ditto ...	Ditto ...	Chevurkodu ...	57,585	...	5,000	
	Ditto ...	Ditto ...	Ditto ...	Narasaiyapalem channel.	3,915	...	3,000	
79	(2.)—Main Canals and Branches.	Pulleru ...	B. Land ...	Compensation ...	5,000	2,914	2,000	14,500
90	(4.)—Drainages.	Peddakommaleru.	L. Earthwork.	Earthwork	2,05,000	...	5,000	2,000
				Total, Extraordinary ...	...	...	...	5,000
								1,14,413
				Ordinary.				
74	(2.)—Main Canals and Branches.	Masulipatam	I. Navigation	Lock sheds	1,510	...	1,510	
	Ditto ...	Ditto ...	K. Buildings.	Tappal lascars' sheds.	440	...	440	
77	Ditto ...	Ellore Canal.	I. Navigation	Two lock sheds ...	110	...	110	1,950
	Ditto ...	Ditto ...	K. Buildings.	Four tappal lascars' sheds.	220	...	220	
79	Ditto ...	Pulleru Canal	I. Navigation	Five lock sheds ...	302	...	302	
	Ditto ...	Ditto ...	K. Buildings.	One tappal lascars' shed.	55	...	55	330
				Total, Ordinary ...	...	...	...	357
								2,637
			KISTNA DELTA SYSTEM, WESTERN SECTION.					
			Extraordinary.					
93	(1.)—Head Works	Anicut ...	C. Works ...	Raising head works.	60	60	60	60
95	(2.)—Main Canals and Branches.	Main Canal.	D. Regulators.	Improvements to head sluice.	9,340	8,443	5,000	
	Ditto ...	Bank Canal	B. Land ...	Compensation ...	...	...	5,000	5,000
	Ditto ...	Ditto ...	E. Falls and Weirs.	Kollur lock weir alteration.	1,000	...	2,000	
96	Ditto ...	Ditto ...	Ditto ...	Vellatur weir alteration.	800	...	1,000	
	Ditto ...	Ditto ...	Ditto ...	Penmudi weir alteration.	800	...	800	
	Ditto ...	Ditto ...	L. Earthwork.	Flood bank	38,490	...	800	
							5,000	9,600

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GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79—*(Continued)*.

Budget Part II. Item.	Main-Head.	Name of Canals, &c.	Sub-Head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Totals.
			KISTNA DELTA SYSTEM, WESTERN SECTION—(Contd.)		Rs.	Rs.	Rs.	Rs.
97	Main Canals and Branches.	Nizampatam.	D. Regulators.	Screw gearing shutters to head sluice.	1,885	...	1,885	
	Ditto ...	Ditto ...	Ditto ...	Extension, &c. ...	2,055	...	2,000	3,885
	Ditto ...	Commamur	B. Land ...	Compensation ...	5,480	...	1,535	
	Ditto ...	Ditto ...	F. River and Hill Torrent Works.	Nallawada outlet ...	7,640	...	7,640	
	Ditto ...	Ditto ...	Ditto ...	Ditto inlet ...	2,910	...	2,910	
98	Ditto ...	Ditto ...	Ditto ...	Nakkavagu outlet ...	4,160	...	4,160	
	Ditto ...	Ditto ...	Ditto ...	Ditto inlet ...	1,670	...	1,670	
	Ditto ...	Ditto ...	H. Escapes.	Head lock weir ...	2,200	...	2,200	
	Ditto ...	Ditto ...	I. Navigation	Kollimerla lock ...	27,720	...	14,889	
	Ditto ...	Ditto ...	Ditto ...	Tidal lock	35,370	...	19,712	
	Ditto ...	Ditto ...	L. Earthwork.	Widening, &c. ...	2,88,290	...	5,000	59,716
				Total, Extraordinary ...	...	...	...	78,261
				Ordinary.				
95	(2.)—Main Canals and Branches.	Main Canal.	I. Navigation	Five lock sheds ...	302	...	302	302
96	Ditto ...	Bank Canal	Ditto ...	Do. do. ...	302	...	302	302
97	Ditto ...	Nizampatam	Ditto ...	Sixteen do. ...	...	...	1,015	
	Ditto ...	Ditto ...	K. Buildings	Eight tappal lascars' sheds.	...	...	440	1,455
102	(3.)—Distributaries.	Ditto ...	C. Works ...	Minor sluices ...	2,000	1,000	1,000	1,000
98	(2.)—Main Canals and Branches.	Commamur	I. Navigation	Six lock sheds ...	357	...	357	
	Ditto ...	Ditto ...	K. Buildings	Ten tappal lascars' sheds.	550	...	550	907
				Total, Ordinary ...	...	...	...	3,966
			CHEMBRAMBAKAM TANK SYSTEM.					
			Ordinary.					
111	(2A.)—Reservoirs.	Chembrambakam Tank	C. Works ...	Embanking lower part of new Bangaru channel.	2,650	...	2,650	
	Ditto ...	Ditto ...	Ditto ...	Constructing Mepur sluice.	4,605	4,349	256	
	Ditto ...	Ditto ...	Ditto ...	Poonamallee sluice...	11,340	11,094	246	
	Ditto ...	Ditto ...	Ditto ...	Chetti sluice ...	8,433	6,468	251	
	Ditto ...	Ditto ...	Ditto ...	Mangadu sluice ...	1,308	1,024	284	

GOVERNMENT OF MADRAS.

PART II—(MADRAS FORM).

SCHEDULE OF WORKS PROPOSED TO BE CARRIED OUT IN 1878-79—(*Continued*).

Budget Part II. Item.	Main-head.	Name of Canals, &c.	Sub-head.	Individual Works.	Amount of Estimate.	Expenditure up to March 1878.	Proposed Outlay in 1878-79.	Item Totals.
			CHEMBRAMBAKAM TANK SYSTEM—(Continued).		Rs.	Rs.	Rs.	Rs.
111	(2A.)—Reservoirs.	Chembrambakam Tank	C. Works ...	Cunnathur sluice ...	7,993	7,777	216	
	Ditto ...	Ditto ...	Ditto ...	Pallandhandalam sluice.	1,429	1,305	124	
	Ditto ...	Ditto ...	O. Miscellaneous.	Gauges at Korattur and Kesavaram anicuts and at Mangadu sluice.	420	131	222	
	Ditto ...	Ditto ...	Ditto ...	Sundries	9,365	8,619	100	4,349
				Total, Ordinary ...	...	...	...	4,349
			CAUVERY DELTA SYSTEM. *Ordinary.*					
131	(2.)—Main Canals and Branches.	...	D. Regulators.	Constructing regulating works on the Kodamurti and Tirumalarajanar rivers.	31,380	...	15,000	15,000
				Total, Ordinary ...	...	...	...	15,000
			SRIVAIKUNTHAM ANICUT SYSTEM. *Extraordinary.*					
141	(2.)—Main Canals and Branches.	South Main Channel	L. Earthworks.	South Main Canal ...	67,000	66,986	9,000	9,000
144	(3.)—Distributaries.							
	Ditto ...	Ditto ...	C. Works ...	Small sluices ...	9,000	...	659	
	Ditto ...	Ditto ...	L. Earthworks.	Small channels ...	7,500	...	1,941	
	Ditto ...	Ditto ...	Ditto ...	Autur channel ...	17,075	...	6,000	
	Ditto ...	Ditto ...	Ditto ...	Nallur channel ...	...	...	5,269	13,869
142	(2.)—Main Canals and Branches.	North Main Channel.	N. Tanks and Reservoir.	Upper Odei escape weir.	39,310	34,912	200	
	Ditto ...	Ditto ...	Ditto ...	Pottacolum tank revetment.	11,920	6,664	1,100	
	Ditto ...	Ditto ...	Ditto ...	Korampallam tank revetment.	70,880	68,600	2,280	3,380
144	(3.)—Distributaries.							
	Ditto ...	Ditto ...	C. Works ...	Screw gearing, Kilpadugai head sluice	250	...	250	
	Ditto ...	Ditto ...	Ditto ...	Screw gearing, Korkei head sluice.	250	...	250	
	Ditto ...	Ditto ...	Ditto ...	Small sluices ...	9,600	...	659	
			L. Earthwork.	Small channels ...	25,500	...	1,892	
				Total, Extraordinary ...	...	...	...	3,051
								29,500

GOVERNMENT OF MADRAS.

PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS OF IRRIGATION WORKS FOR THE YEAR 1878-79.

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total.	Amount.	Total.
REVENUE ACCOUNT.	Rs.	Rs.	Rs.	Rs.
Godavari Delta System—				
Eastern Delta Division	62,120	...	49,600	
Central „ „	33,450	...	37,680	
Western „ „	41,100	...	41,200	
		1,36,670		1,28,480
Kistna Delta System—				
Eastern Delta Division	64,070	...	69,000	
Western „ „	50,660	...	44,000	
		1,14,730		1,13,000
Penner Anicut System—				
Pennair Anicut Division	...	...	8,000	
Nellore Southern „	28,700	...	21,500	
		28,700		29,500
Chembrambaukam Tank—				
St. Thomas' Mount Division	9,600	...	10,000	
		9,600		10,000
Palar Anicut System—				
Walaja Division	12,400	...	7,000	
Vellore „	10,500	...	17,000	
Chingleput „	14,300	...	15,000	
		37,200		39,000
Pelandorai Anicut System—				
Virdachellum Division	4,800	...	11,000	
		4,800		11,000
Cauvery Delta System—				
Tanjore Division	24,300	...	24,590	
Mayaveram „	24,100	...	25,160	
Negapatam „	12,100	...	12,600	
Manargudi „	6,310	...	6,650	
		66,810		69,000
Srivaikuntham Anicut System—				
Tinnevelly Division	47,800	...	20,000	
		47,800		20,000
Total, Revenue Account ...	...	4,46,310	...	4,19,980
REPAIRS OF WORKS FOR WHICH NO REVENUE ACCOUNT IS KEPT.				
(1.) Irrigation.				
Ganjam District—				
Berhampore Division	9,910	...	9,000	
Chicacole „	9,910	...	8,000	
		19,820		17,000
Vizagapatam District—				
Golcondah Division	11,890	...	16,500	
		11,890		16,500
Godavari District—				
Eastern Delta Division	1,980	...	500	
Ellore „	7,930	...	7,000	
Rajahmundry „	7,930	...	9,500	
		17,840		17,000
Kistna District—				
Guntoor Division	5,950	...	6,000	
Eastern „	2,970	...	2,000	
		8,920		8,000

GOVERNMENT OF MADRAS.

PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS, &c.—(*Continued*).

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total.	Amount.	Total.
	Rs.	Rs.	Rs.	Rs.
REPAIRS OF WORKS, &c.—(Continued).				
(1.) Irrigation—(Continued).				
Nellore District—				
Southern Division	24,780			
Central ,, ...	29,730	...	25,000	
Northern ,, ...	4,960	...	25,000	
		59,470	10,000	60,000
Cuddapah District—				
Sidhout Division	19,820			
Cuddapah ,, ...	17,840	...	12,000	
Madnapully ,, ...	7,430	...	12,000	
		45,090	6,000	30,000
Kurnool District—				
Kurnool Division	14,870			
Nandial ,, ...	9,910	...	16,950	
Cumbum ,, ...	19,820	...	21,190	
		44,600	11,860	50,000
Bellary District—				
Bellary Division	6,940			
Hospett ,, ...	11,890	...	6,700	
Ghooty ,, ...	13,880	...	12,200	
Pennacondah Division	16,850	...	14,500	
		49,560	16,600	50,000
Presidency District—				
Presidency Division	2,970	...	3,000	
		2,970		3,000
Chingleput District—				
Chingleput Division	44,110			
Mount ,, ...	17,640	...	44,500	
Sirulur ,, ...	26,460	...	17,800	
		88,210	26,700	89,000
North Arcot District—				
Walaja Division	24,780			
Chittoor ,, ...	14,870	...	25,000	
Vellore ,, ...	11,890	...	20,000	
Polur ,, ...	24,780	...	20,000	
		76,320	32,000	97,000
South Arcot District—				
Cuddalore Division	29,730			
Tindivanum ,, ...	19,820	...	28,400	
Virdachellum ,, ...	49,560	...	22,000	
		99,110	31,110	81,510
Salem District—				
Salem Division	29,730			
Oosscor ,, ...	19,820	...	26,000	
Tripatore ,, ...	17,840	...	20,000	
		67,390	18,000	64,000
Tanjore District—				
Tanjore Division	5,450			
Mayaveram ,, ...	990	...	5,000	
Manargudi ,, ...	3,470	...	2,000	
		9,910	3,000	10,000

GOVERNMENT OF MADRAS.

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PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS, &c.—(*Continued*).

	Estimate, 1878-79.		Estimate, 1878-79.	
	Amount.	Total.	Amount.	Total.
	Rs.	Rs.	Rs.	Rs.
REPAIRS OF WORKS, &c.—(Continued).				
(1.) Irrigation—(Continued).				
Trichinopoly District—				
Trichinopoly Division	19,830	...	9,400	
Musery ,, ...	13,880	...	24,500	
Wudiarpolliem ,, ...	5,950	...	6,500	
		39,660		40,400
Coimbatore District—				
Coimbatore Division	14,870	...	14,000	
Collegal ,, ...	1,490	...	1,400	
Caroor ,, ...	13,880	...	15,000	
Irrigation ,, ...	18,860	...	21,000	
		49,100		51,400
Malabar District—				
Cochin Division	1,980	...	2,226	
		1,980		2,226
Madura District—				
Madura Division	29,740	...	24,000	
Dindigul ,, ...	29,740	...	23,400	
		59,480		47,400
Tinnevelly District—				
Northern Division	24,780	...	17,000	
Tinnevelly ,, ...	84,250	...	18,000	
Shermadevy ,, ...	39,650	...	20,000	
		1,48,680		55,000
Total, Irrigation ...	...	9,00,000	...	7,89,436
(2.) River Conservancy.				
Ganjam District—				
Berhampore Division	...	...	4,000	
Chicacole ,, ...	...	...	12,000	
		...		16,000
Vizagapatam District—				
Golcondah Division	500	...	1,000	
		500		1,000
Godavari District				
Eastern Delta Division	9,000	...	11,400	
Central ,, ,, ...	5,000	...	6,600	
Western ,, ,, ...	1,500	...	2,000	
Ellore ,, ...	2,000	...	2,500	
Rajahmundry ,, ...	500	...	500	
		18,000		23,000
Kistna District—				
Guntoor Division	500	...	200	
Eastern Delta ,, ...	1,000	...	300	
		1,500		500
Nellore District—				
Southern Division	1,000	...	2,000	
		1,000		2,000
Cuddapah District—				
Sidout Division	...	...	...	
Cuddapah ,, ...	500	...	...	
Madnapully ,, ...	...	...	...	
		500		...

GOVERNMENT OF MADRAS.

PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS, &c.—(*Continued*).

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total.	Amount.	Total.
	Rs.	Rs.	Rs.	Rs.
REPAIRS OF WORKS, &c.—(Continued).				
(2.) River Conservancy—(Continued).				
Chingleput District—				
Chingleput Division	500			
Mount „	500	...	...	
Sirulur „	500	...	...	
		1,500		...
North Arcot District—				
Walaja Division	...	...	200	
Chittoor „	...	...	100	
Vellore „	1,000	...	100	
Polur „	...	...	100	
		1,000		500
South Arcot District—				
Cuddalore Division	1,500	...	3,600	
Virdachellum „	1,500	...	2,000	
		3,000		5,600
Salem District—				
Salem Division	1,000	...	1,000	
Tripatore „	...	...	500	
		1,000		1,500
Tanjore District—				
Tanjore Division	17,000	...	18,000	
Mayaveram „	5,000	...	5,000	
Negapatam „	3,000	...	2,000	
Manargudi „	3,000	...	2,000	
		28,000		27,000
Trichinopoly District—				
Trichinopoly Division	8,000	...	8,400	
Musery „	7,000	...	6,800	
Wudiarpolliem „	5,000	...	4,000	
		20,000		19,200
Coimbatore District—				
Collegal Division	500	...	300	
Caroor „	3,000	...	4,800	
Irrigation „	1,000	...	500	
		4,500		5,600
Madura District—				
Madura Division	500	...	500	
Dindigul „	500	...	500	
		1,000		1,000
Tinnevelly District—				
Northern Division	300	...	300	
Tinnevelly „	2,000	...	2,000	
Shermadevy „	200	...	400	
		2,500		2,700
Total, River Conservancy ...	...	84,000	...	1,05,600
(3.) River Embankments.				
Ganjam District—				
Berhampore Division	2,500	...	7,000	
		2,500		7,000
Vizagapatam District—				
Golcondah Division	1,500	...	1,000	
		1,500		1,000
	...	...	...	...

GOVERNMENT OF MADRAS.

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PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS, &c.—(*Continued*).

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total.	Amount.	Total.
	Rs.	Rs.	Rs.	Rs.
REPAIRS OF WORKS, &c—(Continued).				
(3.) River Embankments—(Continued).				
Godavari District—				
Eastern Delta Division	2,000	...	2,000	
Central Delta „	5,000	...	4,000	
Western Delta „	500	...	1,000	
Rajahmundry „	500	...	...	
		8,000		7,000
Kistna District—				
Guntoor Division	1,500	...	1,100	
Eastern Delta Division	1,000	...	400	
		2,500		1,500
Nellore District—				
Southern Division	3,000	...	2,000	
		3,000		2,000
Cuddapah District—				
Sidhout Division	5,000	...	15,000	
		5,000		15,000
Chingleput District—				
Mount Division	1,000	...	1,000	
Sirulur „	5,000	...	10,000	
		6,000		11,000
North Arcot District—				
Walaja Division	...	...	300	
Chittoor „	...	...	200	
Vellore „	1,000	...	300	
Polur „	...	...	200	
		1,000		1,000
South Arcot District—				
Cuddalore Division	2,000	...	1,000	
Virdachellum „	4,000	...	2,000	
		6,000		3,000
Salem District—				
Salem Division	...	...	3,000	
		...		3,000
Tanjore District—				
Tanjore Division	25,000	...	25,000	
Mayaveram „	12,000	...	12,000	
Negapatam „	2,500	...	2,500	
Manargudi „	2,500	...	2,500	
		42,000		42,000
Trichinopoly District—				
Trichinopoly Division	18,000	...	19,800	
Musery „	5,000	...	4,600	
Wudiarpolliem „	7,000	...	8,300	
		30,000		32,700
Coimbatore District—				
Collegal Division	500	...	100	
Caroor „	1,500	...	1,200	
Irrigation „	500	...	200	
		2,500		1,500
Tinnevelly District—				
Northern Division	300	...	500	
Tinnevelly „	6,700	...	1,000	
Shermadevy „	1,000	...	500	
		8,000		2,000
Total, River Embankments ...	...	1,18,000	...	1,29,700

GOVERNMENT OF MADRAS.

PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS, &c.—(*Continued*).

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total.	Amount.	Total.
	Rs.	Rs.	Rs.	Rs.
REPAIRS OF WORKS, &c.—(Continued).				
(4.) Drainage.				
Vizagapatam District—				
Golcondah Division	500	...	500	
Godavari District—		500		500
Western Delta Division	1,090	...	...	
Kistna District—		1,090		
Guntoor Division	800	...	...	
Eastern Delta „	200	...	...	
North Arcot District—		1,000		
Walaja Division	500	...	200	
Chittoor „	...	...	100	
Vellore „	...	...	100	
Polur „	...	...	100	
Tanjore District—		500		500
Tanjore Division	700	...	500	
Mayaveram „	700	...	250	
Manargudi „	600	...	250	
Trichinopoly District—		2,000		1,000
Trichinopoly Division	800	...	...	
Musery „	500	...	...	
Wudiarpolliem „	500	...	290	
Tinnevelly District—		1,300		290
Northern Division	200	...	...	
Tinnevelly „	600	...	200	
Shermadevy „	200	...	300	
		1,000	200	
Total, Drainage ...	...	7,390	...	2,990
(5.) Miscellaneous.				
Vizagapatam District—				
Golcondah Division	100	...	500	
Chingleput District—		100		500
Chingleput Division	100	...	...	
Mount „	100	...	...	
Sirndur „	100	...	...	
Kistna District—		300		...
Guntoor Division	100	...	...	
Eastern Delta „	100	...	...	
Western „	200	...	...	
Nellore District—		400		...
Southern Division	100	...	1,000	
		100		1,000

GOVERNMENT OF MADRAS.

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PART III.

DETAIL OF THE BUDGET ESTIMATE FOR MAINTENANCE AND REPAIRS, &c.—(*Continued*).

	Estimate, 1878-79.		Estimate, 1877-78.	
	Amount.	Total.	Amount.	Total.
	Rs.	Rs.	Rs.	Rs.
REPAIRS OF WORKS, &c.—(Continued).				
(5.) Miscellaneous—(Continued).				
Cuddapah District—				
Sidhout Division	100	...	1,000	
Cuddapah „	100	...	3,000	
Madnapully „	100	...	1,000	
North Arcot District—		300		5,000
Walaja Division	...	...	400	
Chittoor „	100	...	200	
Vellore „	...	...	200	
Polur „	...	...	200	
South Arcot District—		100		1,000
Cuddalore Division	100	...	...	
Virdachellum „	100	...	...	
Tanjore District—		200		...
Tanjore Division	100	...	...	
Mayaveram „	100	...	...	
Manargudi „	100	...	...	
Trichinopoly District—		300		...
Trichinopoly Division	100	...	2,000	
Musery „	100	...	200	
Wudiarpolliem „	...	...	210	
Coimbatore District—		200		2,410
Coimbatore Division	100	...	50	
Collegal „	...	...	50	
Caroor „	100	...	200	
Irrigation „	100	...	200	
		300		500
Total, Miscellaneous ...	...	2,300	...	10,410
Total, Repairs for which no Revenue Account is kept ...	...	11,11,690	...	10,38,136

GOVERNMENT OF MADRAS.

PART III.

GENERAL ABSTRACT OF THE GRANTS PROVIDED FOR IN THE PRECEDING ESTIMATE.

	Imperial Funds.			Contributions.	Local Funds.	Total.
	In India.	In England.	Total.			
REVENUE ORDINARY.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godavari Delta System	1,36,670	...	1,36,670	...	...	1,36,670
Kistna Delta System	1,14,730	...	1,14,730	...	...	1,14,730
Penner Anicut System	28,700	...	28,700	...	...	28,700
Chembrambaukam Tank	9,600	...	9,600	...	...	9,600
Palar Anicut System	37,200	...	37,200	...	...	37,200
Pelandorai Anicut System	4,800	...	4,800	...	...	4,800
Cauvery Delta System	66,810	...	66,810	...	...	66,810
Srivaikuntham Anicut System	47,800	...	47,800	...	...	47,800
	4,46,310	...	4,46,310	...	...	4,46,310
Ordinary Agricultural.						
Irrigation	9,00,000	...	9,00,000	...	...	9,00,000
River Conservancy	84,000	...	84,000	...	...	84,000
River Embankment	1,18,000	...	1,18,000	...	...	1,18,000
Drainage	7,390	...	7,390	...	...	7,390
Miscellaneous	2,300	...	2,300	...	...	2,300
	11,11,690	...	11,11,690	...	...	11,11,690
Total, Ordinary ...	15,58,000	...	15,58,000	...	...	15,58,000

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PART IV.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION DEPARTMENT FOR THE YEAR 1878-79.

Number.		Particulars.	Rate of Salary.	1878-79.			1877-78.
1877-78.	1878-79.			Per Mensem.	Per Annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
		GENERAL.					
		Office of the Chief Engineer for Irrigation.					
		Salaries—					
1	1	Chief Engineer, 2nd Class	2,303⅓	2,303⅓	27,642	...	...
11	11	Clerks	20 to 150	660	7,920	...	...
4	4	Draftsmen and Estimators	40 to 75	225	2,700	...	...
6	7	Office Servants	6 to 10	53	636	...	...
		Additional Establishment proposed but not sanctioned.					
1	1	Deputy Chief Engineer for Irrigation, Executive, 1st Grade ...	1,340⅗	1,340⅗	16,091	...	...
		Total, Salaries ...	...	...	54,989	54,989	52,814
		Travelling Allowances	...	...	2,871	2,871	3,759
		Contingencies	...	...	240	240	240
23	24	Total, Office of the Chief Engineer for Irrigation	...	...	58,100	58,100	56,813
		Share of Public Works Establishment debited to Irrigation at 25 per cent. on grant for works ...	...	...	...	5,71,202	5,71,219
		Total, General ...	...	...	...	6,29,302	6,28,032
		Survey Establishment.					
		Salaries—					
		Temporary Establishments to be sanctioned in detail as may be required	...	...	...	15,000	15,000
		Total, Survey Establishment ...	...	...	...	15,000	15,000
		Water Regulation.					
		Salaries—					
3	3	Anicut Superintendent	60 to 120	280	3,360	...	...
33	42	Delta do.	40 to 70	2,175	26,100	...	...
..	1	Assistant do.	30	30	360	...	...
89	71	Superintendents	7 to 35	881½	9,762	...	...
19	7	Clerks	8 to 15	97	1,164	...	...
1	2	Head Lascar	6 to 7	13	156	...	...
670	695	Lascars and Tapal Lascars ...	2 to 7	3,494½	39,305	...	...
10	6	Maistries	12 to 30	125	1,500	...	...
1	1	Shroff	10	10	120	...	...
		Total, Salaries ...	...	...	81,827	81,827	77,891
		Travelling Allowances	...	...	2,507	2,507	2,267
		Total, Water Regulation ...	...	...	84,334	84,334	80,158

GOVERNMENT OF MADRAS.

PART IV.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION DEPARTMENT FOR THE YEAR 1878-79.

Number. 1877-78.	Number. 1878-79.	Particulars.	Rate of Salary.	1878-79. Per Mensem.	1878-79. Per Annum.	1878-79. Total.	1877-78.
		Navigation.	Rs.	Rs.	Rs.	Rs.	Rs.
		Salaries—					
1	1	Boat Superintendent	75	75	900	...	...
2	...	Navigation do.	...	...	...	...	...
62	...	Lock do.	...	...	...	...	...
9	66	Superintendents	...	...	...	...	...
...	1	Do. for 7 months	7 to 15	706	8,472	...	...
1	...	Head Lascar ...	10	10	70	...	...
...	264	Lascars	...	...	...	...	...
...	3	Do. for 7 months	4 to 6	1,516	18,192	...	...
			5 to 6	16	112	...	...
...	...	Total, Salaries ...	...	...	27,746	27,746	31,502
		Travelling Allowance	...	...	...	...	240
		Total, Navigation ...	...	...	27,746	27,746	31,742
		River Conservancy.					
		Salaries—					
...	2	Superintendents	7 to 15	22	264	...	...
1	...	Head Lascar	..	...	..	...	...
22	48	Lascars	2½ to 7	185	2,220	...	...
...	4	Do. for 6 months	3½	14	84	...	...
23	...	Total, Salaries ...	...	...	2,568	2,568	1,200
		Total River Conservancy ...	...	...	2,568	2,568	1,200
		Special Establishment for Revenue Investigation.					
		Salaries—					
...	1	Head Clerk	250	250	3,000	...	...
...	1	Hospital Assistants 2nd Class ...	40	40	480	...	...
...	17	Clerks	25 to 50	460	5,520	...	...
...	10	Office Servants	5 to 10	71	852	...	...
...	...	Total, Salaries ...	...	...	9,852	9,852	15,388
...	...	Travelling Allowances	...	...	1,200	1,200	2,000
...	...	Contingencies	...	...	948	948	500
...	...	Total, Special Establishment for Revenue Investigations ...	...	...	12,000	12,000	17,888
...	...	Total, Establishment provided for in Budget Grants ...	...	...	...	7,70,950	7,74,020

GOVERNMENT OF MADRAS.

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PART V.

DETAIL OF ESTIMATED ESTABLISHMENT CHARGES BY SYSTEMS OR CANALS AND OBJECTS OF WORKS.

Funds, Systems, and Objects of Works and Divisions.	Establishment. Chief Engineer.	Share of Public Works Establishment.	Survey.	Water Regulation.	Navigation.	River Conservancy.	Special Revenue Investigations.	Total Establishment.	Works.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
CAPITAL EXTRAORDINARY.									
Godavari Delta System—									
Eastern Delta Division ..	2,263	22,250	...	...	..	...	...	24,513	89,000
Central Delta do. ...	1,018	10,000	...	...	...	...	...	11,018	40,000
Western Delta do. ...	2,293	22,547	...	...	...	...	...	24,840	90,190
Total ...	5,574	54,797	...	...	...	...	...	60,371	2,19,190
Kistna Delta System—									
Eastern Delta Division ...	2,910	28,611	..	...	...	...	...	31,521	1,14,442
Western Delta do. ...	1,990	19,565	...	...	...	...	...	21,555	78,261
Total ...	4,900	48,176	...	...	...	...	...	53,076	1,92,703
Srivaikunthum Anicut System—									
Tinnevelly Division	750	7,375	...	...	...	...	...	8,125	29,500
Total ...	750	7,375	...	...	...	...	...	8,125	29,500
Total, Capital Extraordinary ...	11,224	1,10,348	...	...	...	...	...	1,21,572	4,41,393
CAPITAL ORDINARY.									
Godavari Delta System—									
Eastern Delta Division ...	232	2,286	...	...	...	...	...	2,518	9,146
Total ...	232	2,286	...	...	...	...	...	2,518	9,146
Kistna Delta System—									
Eastern Delta Division ...	67	659	...	...	...	...	...	726	2,637
Western Delta do. ...	101	992	...	...	...	...	...	1,093	3,966
Total ...	168	1,651	...	...	...	...	...	1,819	6,603
Chembrambaukam Tank—									
Mount Division	111	1,087	...	...	....	...	...	1,198	4,349
Total ...	111	1,087	...	...	...	...	...	1,198	4,349
Cauvery Delta System—									
Tanjore Division	381	3,750	...	...	.	...	....	4,131	15,000
Total ...	381	3,750	...	...	...	...	...	4,131	15,000
Special Revenue Investigations ...	...	...	...	...	...	...	12,000	12,000	...
Total ...	...	...	...	...	...	...	12,000	12,000	...
Total, Capita Ordinary ...	892	8,774	6,000	...	...	...	12,000	27,666	35,098

GOVERNMENT OF MADRAS.

PART V.

DETAIL OF ESTIMATED ESTABLISHMENT CHARGES BY SYSTEMS OF CANALS AND OBJECTS OF WORKS.

Funds, Systems and Objects of Works and Divisions.	Establishment. Chief Engineer.	Share of Public Works Establishment.	Survey.	Water Regulation.	Navigation.	River Conservancy.	Special Revenue Investigations.	Total Establishment.	Works.
REVENUE.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godavari Delta System—									
Eastern Delta Division ...	1,681	16,530	...	11,124	8,988	...	...	38,323	66,120
Central Delta do. ...	901	8,862	...	3,960	2,772	...	...	16,496	35,450
Western Delta do. ...	1,172	11,525	...	13,655	7,838	...	...	34,190	46,100
Ellore do. ...	...	...	...	60	552	...	...	612	...
Total ...	3,754	36,918	...	28,799	20,150	...	...	89,621	1,47,670
Kistna Delta System—									
Eastern Delta Division ...	1,668	16,393	..	19,380	6,540	...	...	58,623	65,570
Western Delta do. ...	1,352	13,290	..						53,160
Total ...	3,020	29,683	....	19,380	6,540	...	...	58,623	1,18,730
Penner Anicut System—									
Nellore Southern Division ...	730	7,175	...	4,374	...	...	...	12,279	28,700
Total ...	730	7,175	...	4,374	...	...	...	12,279	28,700
Chembrambaukam Tank—									
Mount Division	244	2,400	...	714	....	..	...	3,358	9,600
Total ...	244	2,400	...	714	...	...	...	3,358	9,600
Palar Anicut System—									
Chingleput Division	389	3,825	...	960	...	...	..	5,174	15,300
Wallajah do.	341	3,350	...	1,380	...	...	...	5,071	13,400
Vellore do.	292	2,875	...	342	...	...	...	3,509	11,500
Total ...	1,022	10,050	...	2,682	..	...	...	13,754	40,200
Pelandorai Anicut System—									
Virdachellam Division ...	122	1,200	...	648	...	...	...	1,970	4,800
Total ...	122	1,200	...	648	...	...	...	1,970	4,800
Cauvery Delta System—									
Tanjore Division	720	7,075	...	6,618	156	...	...	14,569	28,300
Mayaveram do.	715	7,025	...	540	...	...	...	8,280	28,100
Negapatam do.	333	3,275	...	420	...	...	...	4,028	13,100
Mannargoody do.	186	1,827	...	1,368	...	...	...	3,381	7,310
Total ...	1,954	19,202	...	8,946	156	.	...	30,258	76,810
Srivaikunthum Anicut System—									
Tinnevelly Division	1,368	13,450	...	2,169	...	...	...	16,987	53,800
Total ...	1,368	13,450	...	2,169	...	...	...	16,987	53,800
Total, Revenue ...	12,214	1,20,078	2,000	67,712	26,846	...	...	2,28,850	4,80,310

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PART V.

DETAIL OF ESTIMATED ESTABLISHMENT CHARGES BY SYSTEMS OF CANALS AND OBJECTS OF WORKS.

Funds, Systems, and Objects of Works and Divisions.	Establishment. Chief Engineer.	Share of Public Works Establishment	Survey.	Water Regulation.	Navigation.	River Conservancy.	Special Revenue Investigations.	Total Establishment.	Works.
ORDINARY AGRICULTURAL.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Irrigation	27,215	2,67,589	5,000	16,622	900	...	...	3,17,317	10,70,316
River Conservancy	2,139	21,000	1,000	...	...	2,568	...	26,707	84,000
River Embankment ...	3,114	30,625	1,000	...	...	...	..	34,739	1,22,500
Drainage	282	2,772	...	...	...	...	...	3,054	11,090
Miscellaneous	130	1,275	...	...	...	...	...	1,405	5,100
Government Reserve	890	8,750	...	...	...	...	...	9,640	35,000
Total ...	33,770	3,32,002	7,000	16,622	900	2,568	...	3,92,862	13,28,006
Grand Total, Establishment Charges	58,100	5,71,202	15,000	84,334	27,746	2,568	12,000	7,70,950	22,84,807

GOVERNMENT OF MADRAS.

PART VI.

DETAIL OF THE BUDGET ESTIMATE FOR EXPENDITURE ON TOOLS AND PLANT FOR THE YEAR 1878-79.

	Estimate, 1877-78.	Estimate, 1878-79.
SPECIAL PLANT.	Rs.	Rs.
CAPITAL EXTRAORDINARY.		
Godavari Delta System.		
Floating Plant	20,000	15,000
Kistna Delta System.		
Floating Plant	...	11,000
Total, CAPITAL EXTRAORDINARY.	20,000	26,000
CAPITAL ORDINARY.		
Kistna Delta System.		
Floating Plant	...	1,600
Total, CAPITAL ORDINARY.	...	1,600
REVENUE.		
Godavari Delta System.		
NEW SUPPLIES.		
Floating Plant	20,000	19,500
REPAIRS AND CARRIAGE.		
Floating Plant	14,160	16,680
KISTNA DELTA SYSTEM.		
Repairs and Carriage.		
Floating Plant	12,750	11,600
Reserve at the disposal of Government	...	*17,000
Total, REVENUE.	46,910	64,780
ORDINARY AGRICULTURAL.		
Reserve at the disposal of Government	...	*6,000
Total ...	...	6,000
Total, SPECIAL PLANT.	...	98,380
General tools and plant at 2½ per cent. on the grant for works and repairs ...	...	57,120
Total ...	...	1,55,500

*For enamelled iron gauges.

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GOVERNMENT OF MADRAS.

PART VI A.

DETAIL OF ESTIMATED TOOLS AND PLANT CHARGES BY SYSTEMS OF CANALS AND OBJECTS OF WORKS.

Funds Systems and Objects of Works.	Special Tools and Plant.	General Tools and Plant.	Total.	Grant for Works and Repairs.
	Rs.	Rs.	Rs.	Rs.
CAPITAL EXTRAORDINARY.				
Godavari Delta System	15,000	5,480	20,480	2,19,190
Kistna Delta System	11,000	4,818	15,818	1,92,703
Srivaikuntham Anycut System	...	737	737	29,500
Total, CAPITAL EXTRAORDINARY.	26,000	11,035	37,035	4,41,393
CAPITAL ORDINARY.				
Godavari Delta System	...	229	229	9,146
Kistna Delta System	1,600	165	1,765	6,603
Chembrambaukam Tank	...	108	108	4,349
Cauvery Delta System	...	375	375	15,000
Total, CAPITAL ORDINARY.	1,600	877	2,477	35,098
REVENUE.				
Godavari Delta System	36,180	3,692	39,872	1,47,670
Kistna Delta System	11,600	2,968	14,568	1,18,730
Penner Anicut System	...	718	718	28,700
Chembrambaukam Tank	...	240	240	9,600
Palar Anicut System	...	1,005	1,005	40,200
Pelandorai Anicut Syptem	...	120	120	4,800
Cauvery Delta System	...	1,920	1,920	76,8 0
Srivaikuntham Anicut System	...	1,345	1,345	53,800
Reserve at the disposal of Government	17,000	...	17,000	...
Total, REVENUE.	64,780	12,008	76,788	4,80,310
ORDINARY AGRICULTURAL.				
Irrigation	...	26,758	26,758	10,70,316
River Conservancy	...	2,100	2,100	84,000
River Embankments	...	3,063	3,063	1,22,500
Drainage	...	276	276	11,030
Miscellaneous	...	128	128	5,100
Reserve at the disposal of Government	6,000	875	6,875	35,000
Total ...	6,000	33,200	39,200	13,28,006
Grand Total ...	98,380	57,120	1,55,500	22,84,807

GOVERNMENT OF MADRAS.

APPENDIX A.

ACTUAL AND ESTIMATED CAPITAL ACCOUNT OF THE CANALS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1878-79.

Systems of Canals.	Direct Charges.			Indirect Charges.					Grand Total.
	Ordinary Outlay.	Extraordinary Outlay.	Total.	Capitalization of abatement of Land-revenue.	Exchange on payments in England.	Leave and Pension allowances.	Interest.	Total.	
CHEMBRAMBAKAM TANK.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Old outlay to end of 1876-77 (*a*)	...	...	...	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	3,12,045	2,12,816	5,24,861	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	73,766	...	73,766	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	5,655	...	5,655	...	...	...	...	...	...
Total ...	3,91,466	2,12,816	6,04,282	...	...	...	...	...	...
GODAVARI DELTA SYSTEM.									
Old outlay to end of 1876-77 (*a*)	50,65,865	1,72,816	52,38,681	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	16,821	23,80,196	23,97,017	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	13,289	2,58,582	2,71,871	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	11,893	3,00,041	3,11,934	...	...	...	...	...	...
Total ...	51,07,868	31,11,335	82,19,503	...	...	...	...	...	...
KAVERI DELTA SYSTEM.									
Old outlay to end of 1876-77 (*a*)	9,36,212	1,65,823	11,02,035	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	26,625	2,62,358	2,88,983	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	13,314	...	13,314	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	19,506	...	19,506	...	...	...	...	...	...
Total ...	9,95,657	4,28,181	14,23,838	...	...	...	...	...	...
KISTNA DELTA SYSTEM.									
Old outlay to end of 1876-77 (*a*)	31,26,550	3,90,551	35,17,101	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	1,81,474	10,31,154	12,12,628	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	18,115	75,515	93,630	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	10,187	2,61,597	2,71,784	...	...	...	...	...	...
Total ...	33,36,326	17,58,817	50,95,143	...	...	...	...	...	...

The Examiner states that the information required to fill in columns 2, 3, 4 and 6 to 9 is not available

IRRIGATION BUDGET ESTIMATE, 1878-79. MADRAS PRESIDENCY.

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APPENDIX A.

ACTUAL AND ESTIMATED CAPITAL ACCOUNT OF THE CANALS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1878-79.

Systems of Canals.	Direct Charges.			Indirect Charges.					Grand Total.
	Ordinary Outlay.	Extraordinary Outlay.	Total.	Capitalization of abatement of Land-revenue.	Exchange on payments in England.	Leave and Pension Allowances.	Interest.	Total.	
PALAR ANICUT SYSTEM.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Old outlay to end of 1876-77 (*a*)	12,57,922	...	12,57,922	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	...	...	...	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	632	...	632	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	...	...	...	...	...	...	...	...	...
Total ...	12,58,554	...	12,58,554	...	...	...	...	...	...
PELANDORAI ANICUT SYSTEM.									
Old outlay to end of 1876-77 (*a*)	...	...	...	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	...	2,68,933	2,68,933	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	...	...	...	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	...	...	...	...	...	...	...	...	...
Total ...	...	2,68,933	2,68,933	...	...	...	...	...	...
PENNER ANICUT SYSTEM.									
Old outlay to end of 1876-77 (*a*)	6,33,916	8,066	6,41,982	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	2,24,897	5,36,234	7,61,131	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	8,347	...	8,347	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	...	...	...	...	...	...	...	...	...
Total ...	8,67,160	5,44,300	14,11,460	...	...	...	...	...	...
SRIVAIKUNTHAM ANICUT SYSTEM.									
Old outlay to end of 1876-77 (*a*)	...	...	...	...	...	...	...	...	...
Outlay against current sanctions—	...	...	...	...	...	...	...	...	...
Actuals to end of 1876-77 (*b*).	206	11,53,162	11,53,368	...	...	...	...	...	...
Probable outlay during 1877-78 (*c*)	...	34,777	34,777	...	...	...	...	...	...
Proposed outlay during 1878-79 (*d*)	...	38,362	38,362	...	...	...	...	...	...
Total ...	206	12,26,301	12,26,507	...	...	...	...	...	...

GOVERNMENT OF MADRAS.

APPENDIX B.

ACTUAL AND ESTIMATED REVENUE ACCOUNT OF THE CANALS IN THE MADRAS PRESIDENCY TO END OF 1878-79.

—	Probable Receipts, 1878-79.			Probable expenses during 1878-79.	Balance surplus or deficit, 1878-79.	Probable net surplus or deficit to end of 1877-78.	Actual net surplus or deficit to end of 1876-77.	Probable net surplus or deficit to end of 1878-79.
	Direct Receipts.	Share of Land revenue.	Total.					
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godavari Delta System	...	...	...	2,77,163				
Kistna do.	...	...	...	1,91,921				
Pennér Anicut System	...	...	...	41,697				
Chembrambakum tank	...	...	...	13,198				
Palar Anicut System	...	...	...	54,959				
Pelandorai Anicut System... ...	...	...	...	6,890				
Cauvery Delta System	...	...	...	1,08,988				
Srivaikuntham Anicut System ...	...	...	..	72,132				

The Examiner states that the information required to fill in columns 2, 3, 4, and 6 to 9 is not available.

GOVERNMENT OF MADRAS.

APPENDIX C.

ACTUAL AND ESTIMATED INTEREST ACCOUNT OF THE CANALS IN THE MADRAS PRESIDENCY TO END OF 1878-79.

—	Actual charges for interest to end of 1876-77.	Probable charges for interest for 1877-78.	Probable charges for interest for 1878-79.	Total to end of 1878-79.	Net surplus or deficit from Appendix B.	Balance of interest charges remaining unpaid to end of 1878-79.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.

The Examiner states that the information required to fill in these columns is not available.

GOVERNMENT

APPEN

ESTIMATED ACCOUNT OF RECEIPTS AND CHARGES OF THE IRRIGATION BRANCH,

Accounts.	Budget Estimate, 1878-79.	Regular Estimate, 1877-78.
	Rs.	Rs.
To Balance at commencement of year	1,77,040	1,39,677
To Civil Department—		
Credit Orders	24,21,162	25,70,866
Subscriptions to Service Funds	1,264	1,294
Do. to General Family Pension Fund	...	90
Do. Hindu do.	...	...
Payments for land for Irrigation Works	17,818	...
Charges for collection of water-rates	...	...
Supplies from Forest Department	...	2,628
Gain by Exchange	430	...
Guaranteed Railways	...	...
Transfers, Miscellaneous	2,01,838	6,15,273
To Military Department—		
Madras	615	...
Bombay	...	...
Bengal	...	...
To Telegraph Department—		
To transfers of the Public Works Department	16,64,928	18,52,935
To London Account—		
Stores	10,000	10,000
Miscellaneous	...	...
To Imperial Irrigation Revenue Receipts	1,20,000	97,176
To Suspense Accounts—		
Deposits—Ordinary Deposits	71,260	1,66,762
Contribution Works	...	...
Tuccavee Advances	...	...
Grand Total ...	46,86,361	54,57,001

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DIX D.

PUBLIC WORKS DEPARTMENT, IN MADRAS PRESIDENCY FOR THE YEAR 1877-78 AND 1878-79.

Accounts.	Budget Estimate, 1878-79.	Regular Estimate, 1877-78.
	Rs.	Rs.
By Civil Department—		
Payments into Treasuries	1,77,066	1,54,872
Water-rate Collections	...	...
Miscellaneous receipts of Public Works realized in Civil Department ...	...	...
Expenditure against local Loans	...	...
Contributions in aid of Public Works	...	...
Guaranteed Railways	...	...
Transfers, Miscellaneous	4,130	324
Zemindari Embankments	...	...
By Military Department—		
Madras	...	...
Bombay	...	...
Bengal	...	...
By Telegraph Department	...	...
By transfers of the Public Works Department	7,75,437	10,54,370
By net expenditure in India against Imperial Budget Grant, Ordinary	28,06,000	29,52,343
Do. do. do., Extraordinary ...	5,50,000	3,68,246
Do. on Famine Relief	...	4,95,600
By Suspense Account—		
Deposits—Ordinary Deposits	69,775	2,54,206
Do. Expenditure on works against contributions	...	...
Tuccavee Advances	...	...
Total Charges ...	43,82,408	52,79,961
By Balance at end of year	3,03,953	1,77,040
Grand Total ...	46,86,361	54,57,001

GOVERNMENT OF MADRAS.

APPENDIX E.

MEMORANDUM OF WATER RATES IN FORCE IN CANALS OF THE SEVERAL IRRIGATION SYSTEMS IN THE MADRAS PRESIDENCY.

—	Per Acre Irrigated.	
	Flow.	Lift.
GODAVARI AND KISTNA DELTA SYSTEMS.	Rs. A. P.	Rs. A. P.
Single wet crop	4 0 0	3 0 0
Second wet crop on irrigated land	4 0 0	3 0 0
If compounded for two crops for a term not less than 5 years	6 8 0	4 14 0
Single dry crop	2 0 0	1 8 0
Second dry crop on irrigated land (if not compounded)	2 0 0	1 8 0
Sugar-cane, betel plantations, and other garden produce remaining on the ground for the time of two crops	8 0 0	6 0 0
Do. if compounded for not less than 5 years	6 8 0	4 14 0
Dry crop on land for which irrigation has never been supplied, or, having been once supplied, has been since discontinued	2 0 0	1 8 0
No water-rates in force in the other Irrigation Systems of the Presidency, the water-tax and assessment being consolidated.		

Charges for Boats plying on the Canals of the Godavari Delta System.

		Rs.	A.	P.
Cargo boats	Per ton	2	0	0
Passenger boat, 1st Class	Square foot	0	6	0
Do. 2nd Class	Do.	0	3	0
Unlicensed boats	Per trip	6	0	0

Charges for Boats plying on the Canals of the Kistna Delta System.

		Rs.	A.	P.
Cargo boats	Per ton	1	0	0
Passenger boat, 1st Class	Square foot	0	6	0
Do. 2nd Class	Do.	0	3	0
Unlicensed boats	Per trip	6	0	0

Charges for Rafting Timber and Bamboos on the Canals of the Godavar and Kistna Delta Systems.

Rafts	Per raft to fill in the lock chamber	1	0	0

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GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF WATER REGULATION ESTABLISHMENT.

—	Anicut Superintendent.	Assistant Superintendent.	Delta Superintendent.	Superintendent.	Clerks.	Head Lascars.	Tappal Lascars.	Lascars.	Maistries.	Shroff.	Total.
GODAVARI DELTA SYSTEM.											
Eastern Delta Division.											
Head Works	1	...	...	...	2	...	...	40	3	1	47
Main Canal	...	...	...	...	...	...	...	1	...	...	1
Cocanada Canal	...	...	1	...	...	...	...	3	...	...	4
Samulcottah do.	...	...	1	...	...	...	...	5	...	...	6
Bank do.	...	...	2	...	...	...	...	2	...	...	4
Coringa do.	...	...	1	...	...	...	...	3	...	...	4
Injeram do.	...	...	1	...	...	...	...	1	...	...	2
Mundapeta Canal	...	...	1	...	...	...	...	2	...	...	3
Special duty (River charts)	...	...	1	...	...	...	...	...	...	...	1
Central Delta Division.											
Gunnaram Canal	...	...	1	...	...	...	...	5	...	...	6
Bank do.	...	...	1	...	...	...	...	2	...	...	3
Amalapuram do.	...	...	2	...	...	...	...	3	...	...	5
Bendamoor Lunka Canal	...	...	1	...	...	...	...	1	...	...	2
Western Delta Division.											
Main Canal	...	...	1	...	1	...	...	3	...	...	5
Narsapur Canal	...	...	3	...	...	...	...	7	...	...	10
Gostanadi and Velpur Canal	...	...	2	1	...	...	...	5	...	...	8
Attili Canal	...	...	1	1	...	...	...	3	...	...	5
Bank do.	...	...	1	1	...	...	...	3	...	...	5
Ellore do.	...	...	2	1	...	...	...	16	...	...	19
Venkiah and Weyeru	...	...	2	...	...	...	...	6	...	...	8
Undi Canal	...	...	2	2	...	...	...	4	...	...	8
Total, Godavari Delta System	1	...	27	6	3	...	...	115	3	1	156
KISTNA DELTA SYSTEM.											
Eastern Delta Division.											
Head Works Anicut at Bezwada	1	1	...	...	2	...	...	31	...	...	35
Ellore Canal	...	...	1	...	...	...	3	5	...	...	9
Budameru Branch	...	...	1	...	...	...	...	5	...	...	6
Ryves' Canal	...	...	1	...	...	...	...	2	...	...	3
Gudivada branch	...	...	1	...	...	...	...	4	...	...	5
Pulleru Canal	...	...	1	...	...	...	...	4	...	...	5
Butlercodu branch	...	...	1	...	...	...	...	2	...	...	3
Polrazcodu Canal and lower Pulleru	...	...	1	...	...	...	10	2	...	...	13
Masulipatam Canal below Kankipad	...	...	1	...	...	...	...	2	...	...	3
Bank Canal Division	...	...	1	...	...	...	...	2	...	...	3
Western Delta Division.											
Main Canal	...	...	1	...	...	...	2	2	...	...	5
Bank Canal	...	...	1	...	...	...	...	2	...	...	3
Nizampatam Canal	...	...	1	...	...	...	8	2	...	...	11
Commamur Canal	...	...	2	3	...	...	8	20	...	...	33
Total, Kistna Delta System	1	1	14	3	2	...	31	85	...	...	137
PENNER ANICUT SYSTEM.											
Nellore Southern Division.											
Head Works, Anicut at Nellore	1	...	...	...	1	1	...	15	...	...	18
Southern Delta of Penner	...	...	1	...	1	...	...	1	...	...	3
Sarvapalli Branch Channel	...	...	...	1	...	1	...	4	...	...	6

GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF WATER REGULATION ESTABLISHMENT—(*Continued*).

—	Anicut Superintendent.	Assistant Superintendent.	Delta Superintendent.	Superintendent.	Clerks.	Head Lascars.	Tappal Lascars.	Lascars.	Maistries.	Shroff.	Total.
PENNER ANICUT SYSTEM—(Contd.)											
Nellore Southern Division—(Contd.)											
Idagalli do.	...	...	...	1	...	...	...	2	...	...	3
Kistnapatam do.	...	...	...	1	...	...	...	7	...	...	8
Iduru Branch Channel	...	...	...	1	...	...	...	4	...	...	5
Leburu do.	...	...	...	1	...	...	...	5	...	...	6
Total, Pennair Anicut System ...	1	...	1	5	2	2	...	38	...	...	49
CHEMBRAMBAUKAM TANK.											
St. Thomas' Mount Division.											
Kesavarum Anicut and Old Bungaru Channel ...	...	...	...	1	...	...	...	2	...	...	3
Korattoor Anicut, New Bungaru Channel and Chembrambaukam Tank	...	...	...	1	...	...	...	5	...	...	6
Total, Chembrambaukam Tank ...	...	...	...	2	...	...	...	7	...	...	9
PALAR ANICUT SYSTEM.											
Chingleput Division.											
Kumbakal Channel	...	...	...	...	...	...	...	14	1	...	15
Walaja Division.											
Palar Anicut	...	...	...	1	...	...	...	4	...	...	5
Kavaripakam Tank	...	...	...	1	...	...	...	2	...	...	3
Mahindravadi Channel	...	...	...	1	...	...	...	3	...	...	4
Govindvadi do.	...	...	...	1	...	...	...	3	...	...	4
Vellore Division.											
Dusi Tank and Channel	...	...	...	1	...	...	...	3	...	...	4
Total, Palar Anicut System ..	..	...	...	5	...	...	...	29	1	...	35
PELANDORAI ANICUT SYSTEM.											
Virdachellum Division.											
Pelandorai Anicut	...	...	...	1	...	...		6	...	...	7
Total, Pelandorai Anicut System ...	...	...	...	1	...	...	...	6	...	...	7
CAUVERY DELTA SYSTEM.											
Manargudi Division.											
Harichendranady and Mulliyoor...	...	...	...	1	...	...	...	5	...	...	6
Pandaviyar and Velliyar heads	...	...	...	1	...	...	...	14	...	...	15
Adiviraramanar head	...	...	...	1	...	...	...	...	...	...	1
Mayaveram Division.											
Open Anicut	...	...	...	...	...	...	...	2	...	...	2
Sellur do.	...	...	...	...	...	...	...	2	...	...	2
Odambagy and Zingam Coramboo	...	...	...	1	...	...	...	1	...	...	1
Vettar dam and Chittar head at Kangalachery ...	...	...	...	1	...	...	...	3	...	...	4
Negapatam Division.											
Odambagiar Anicut at Kulligudi	...	...	...	...	...	...	...	1	...	...	1
Kadaviyar Anicut at Vadugacherry	...	...	...	...	...	...	...	1	...	...	1
Vandel Anicut	...	...	...	...	...	...	...	1	...	...	1
Pallevanar	...	...	...	...	...	...	...	1	...	...	1
Dayadanum Calingulah	...	...	...	...	...	...	...	1	...	...	1
Adapar	...	...	...	...	...	...	...	2	...	...	2

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GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF WATER REGULATION ESTABLISHMENT—(*Continued*).

—	Anicut Superintendent.	Assistant Superintendent.	Delta Superintendent.	Superintendent.	Clerks.	Head Lascars.	Tappal Lascars.	Lascars.	Maistries.	Shroff.	Total.
CAUVERY DELTA SYSTEM—(Contd).											
Tanjore Division.											
Upper Anicut	...	...	...	1	...	...	...	12	...	...	13
Grand do.	...	...	...	1	...	...	...	5	...	...	6
Vennar head	...	...	...	...	...	...	...	4	...	...	4
Kovilady Calingulah	...	...	...	...	...	...	...	2	...	...	2
Kodamoorty head and Alamailpoorum anicut ...	...	...	...	1	...	...	...	7	...	...	8
Poniri and Katchalamangalum Anays ...	...	...	...	1	...	...	...	9	...	...	10
Vadunagudy	...	...	...	1	...	...	...	4	...	...	5
Tenperambore Zemboo Cauvery, Vettaur head...	...	...	...	1	...	...	...	18	...	...	19
Vennapoothoor and Pulyempalem Anays	...	...	...	1	...	...	...	4	...	...	5
Manney head	...	...	...	1	...	...	...	5	...	...	6
Merathoor Anicut...	...	...	...	1	...	...	...	2	...	...	3
Cauvery and Veerasholam dam	...	...	...	1	...	...	...	...	...	...	1
Peroomalcovil Sluice and Arasalar head	...	...	...	1	...	...	...	5	...	...	6
Manneyar dam and sluices at Upper and Lower Locks	...	...	...	1	...	...	...	6	...	...	7
Koraycor and Pemmaniyar head works... ...	...	...	...	1	...	...	...	10	...	...	11
Total, Cauvery Delta System ...	...	...	...	17	...	...	...	127	...	...	144
SRIVAIKUNTHAM ANICUT SYSTEM.											
Tinnevelly Division.											
Srivaikuntham Anicut Channels	...	...	...	1	...	...	...	24	2	...	27
Total, Srivaikuntham Anicut System ...	...	...	...	1	...	...	...	24	2	...	27
Total, for works for which Capital and Revenue Accounts are kept ...	3	1	42	40	7	2	31	431	6	1	564
ORDINARY AGRICULTURAL WORKS FOR WHICH NO CAPITAL OR REVENUE ACCOUNTS ARE KEPT.											
GANJAM DISTRICT.											
Berhampore Division.											
Jupili Anicut and head	...	...	...	...	...	...	...	4	...	...	4
Boary Reservoir	...	...	...	...	...	...	...	1	...	...	1
Mahanady River	...	...	...	...	...	...	...	1	...	...	1
Chicacole Division.											
River Vamsadara left bank	...	...	...	...	...	...	...	5	...	...	5
Do. right bank	...	...	...	...	...	...	...	3	...	...	3
Langulia left bank	...	...	...	...	...	...	...	5	...	...	5
Total, Ganjam District ...	...	...	...	...	...	...	...	19	...	...	19
VIZAGAPATAM DISTRICT.											
Golconda Division.											
Siradanady	...	...	...	2	...	...	...	11	...	...	13
Varahanady	...	...	...	1	...	...	...	12	...	...	13
Total, Vizagapatam District ...	...	...	...	3	...	...	...	23	...	...	26
GODAVARI DISTRICT.											
Ellore Division.											
Bayana Weir Rajahmundry Division	...	...	...	...	...	...	...	2	...	...	2
Rajahmundry and Peddapur Taluqs	...	...	...	4	...	...	...	4	...	...	8
Yellern River	...	...	...	1	...	...	..	2	...	...	3
Total, Godavari District ..	...	..	...	5	...	...	...	8	...	...	13

GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF WATER REGULATION ESTABLISHMENT—(*Continued*).

—	Anicut Superintendent.	Assistant Superintendent.	Delta Superintendent.	Superintendent.	Clerks.	Head Lascars.	Tappal Lascars.	Lascars.	Maistries.	Shroff.	Total.
KISTNA DISTRICT.											
Eastern Delta Division.											
Calingulah at Moparu on Budamair	...	...	...	...	..	...	...	3	...	...	3
Western Delta Division.											
Pundla sluice and three calingulahs	...	...	...	...	...	...	...	2	...	...	2
Nallawada and Mulaipalem Calingulah	...	...	...	1	...	...	...	4	...	...	5
Purchoor Vagoo and Sakicalva Calingulah and Sluices	...	...	...	...	...	...	...	3	...	...	3
Armanda Channel...	...	...	...	1	...	...	...	3	...	...	4
Alleru Calingulah	...	...	...	1	...	...	...	4	...	...	5
Total, Kistna District ...	...	...	...	3	...	...	...	19	...	...	22
NELLORE DISTRICT.											
Southern Division.											
Nellore Tank	...	...	...	1	...	...	...	2	...	...	3
Vagooroo Channel Sluices	...	...	...	...	...	...	...	4	...	...	4
Gandavaram and Duvuru and Head Sluices, Sungum	...	...	...	1	...	...	...	4	...	...	5
Chennoor Channel Head Sluice	...	...	...	1	...	...	...	2	...	...	3
Total, Nellore District ...	...	...	...	3	..	...	...	12	...	...	15
CHINGLEPUT DISTRICT.											
Mount Division.											
Madras Water Works	...	...	...	2	...	...	..	10	...	...	12
Sirulur Division.											
Vallur Anicut	...	...	...	1	...	...	...	2	...	...	3
Total, Chingleput District ...	...	...	...	3	...	...	...	12	...	...	15
NORTH ARCOT DISTRICT.											
Walaja Division.											
Poiney Anicut and Channel	...	...	...	2	...	...	...	7	...	...	9
Chittr Division.											
Poiney Anicut and Channel	...	...	...	...	...	..	...	2	...	...	2
Polur Division.											
Cheyaur Anicut	...	...	...	2	...	...	...	6	...	...	8
Alliabad dam and Channel	...	...	...	1	...	...	...	5	...	...	6
Total, North Arcot District ...	...	...	...	5	...	...	...	20	...	...	25
SOUTH ARCOT DISTRICT.											
Virudachalam Division.											
Viranum Tank	...	...	...	...	...	...	...	4	...	...	4
Vellaf Anicut	...	...	...	1	...	...	...	6	...	...	7
Anicut across Manimoothanady	...	...	...	...	...	...	...	4	...	...	4
Walaja Tank	...	...	...	...	...	...	...	2	...	...	2
Mannathoor Anicut across the Manimoothanady.	...	...	...	1	...	...	..	2	...	...	4
Kattoomailoor Anicut across the Myoornadi ...	...	...	...	...	...	...	...	3	...	...	1
	...	...	...	...	...	...	...	1	...	...	

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GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF WATER REGULATION ESTABLISHMENT—(Continued).

—	Anicut Superintendent.	Assistant Superintendent.	Delta Superintendent.	Superintendent.	Clerks.	Head Lascars.	Tappal Lascars.	Lascars.	Maistries.	Shroff.	Total.
SOUTH ARCOT DISTRICT—(Continued).											
Cuddalore Division.											
Trivadi Anicut across Guddilam	...	...	...	...	...	...	...	1	...	...	1
Vanamdavy do. do.	...	...	...	...	...	...	...	1	...	...	1
Trivendipoorum do. do.	...	...	...	...	...	...	...	1	...	...	1
Punnaiyar Anicut at Trikalore	...	...	...	1	...	...	...	6	...	...	7
Peroomall Tank	...	...	...	...	...	...	...	2	...	...	2
Allangal Channel from Ponniyar	...	...	...	...	...	...	...	1	...	...	1
Total, South Arcot District ...	...	...	...	3	...	...	...	32	...	...	35
COIMBATORE DISTRICT.											
Irrigation Division.											
Caniempolliem Channel	...	...	...	1	...	...	...	4	...	...	5
Total, Coimbatore District ...	...	...	...	1	...	...	...	4	...	...	5
TANJORE DISTRICT.											
Tanjore Division.											
Lower Anicut	...	...	...	1	...	...	...	8	...	...	9
Total, Tanjore District ...	...	...	...	1	...	...	...	8	...	...	9
TRICHINOPOLY DISTRICT.											
Musery Division.											
Koramboo Establishment	...	...	...	...	...	...	...	3	...	...	3
Udiarpolliam Division.											
Nanthiyar and Kalaiyar Heads and Nandiyar Channel	...	...	...	2	...	...	...	13	...	...	15
Ponneri Head and Channel	...	...	...	2	...	...	...	7	...	...	9
Trichinopoly Division.											
Koramboo Establishment	...	...	...	...	...	...	...	2	...	...	2
Total, Trichinopoly District ...	...	...	...	4	...	...	...	25	...	...	29
MADURA DISTRICT.											
Madura Division	...	...	...	...	...	...	...	4	...	...	4
Total, Madura District ...	...	...	...	...	...	...	...	4	...	...	4
Tinnevelly District	...	...	...	...	...	...	...	47	...	...	47
Total, Ordinary Agricultural ...	...	...	...	31	...	...	...	233	...	...	264
Grand Total ...	3	1	42	71	7	2	31	664	6	1	828

GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF NAVIGATION ESTABLISHMENT.

—	Boat Superintendent.	Superintendent.	Lascar.	Total.
GODAVARI DELTA SYSTEM.				
Eastern Delta Division.				
Head Works ...	1	...	...	1
Main Canal ...	...	1	5	6
Cocanada Canal ...	...	4	19	23
Samulcottah do. ...	...	3	11	14
Bank do. ...	...	3	11	14
Coringa do. ...	...	3	15	18
Injeram do. ...	...	1	3	4
Mundapetta Canal ...	...	2	8	10
Central Delta Division.				
Main Canal ...	...	1	5	6
Gunnavaram Canal ...	...	3	12	15
Amalapuram do. ...	...	3	12	15
Bank Canal	...	1	4	5
Western Delta Division.				
Main Canal ...	...	1	5	6
Narsapur Canal ...	...	7	34	41
Gostanadi and Velpur Canal ...	...	2	6	8
Attili Canal	...	2	8	10
Bank do.	...	4	12	16
Ellore do.	...	1	6	7
Junction Canal	...	1	7	8
Venkiah and Wyeru Canal ...	...	3	13	16
Undi Canal	...	1	3	4
Total, Godavari Delta System ...	1	47	199	247
KISTNA DELTA SYSTEM.				
Eastern Delta Division.				
Main Canal, Head Lock	...	1	4	5
Masulipatam Canal, Kankipad Lock	...	1	4	5
Do. Verunky do.	...	1	4	5
Do. Nedamole do.	...	1	4	5
Do. Akumurru do.	...	1	4	5
Do. Tidal do.	...	1	4	5
Pulleru, Pamurru Lock ...	...	1	4	5
Budimair, Casarapilly Lock ...	...	1	4	5
Buntimilly Canal, Kowtaram Lock	...	...	2	2
	...	...	2	2
Western Delta Division.			2	2
Main Canal, Head Lock	...	1	4	5
Nizampatam Canal, Duggiralla Lock	...	1	3	4
Do. Kuchipadi do.	...	1	2	3
Do. Intur do.	...	1	2	3
Do. Nallavada do.	...	1	2	3
Do. Tidal do.	...	1	2	3
Bank Canal, Head Lock ...	...	1	2	3
Commamur Canal, Head Lock ...	...	1	4	5
Do. Jagarlamudy Lock	...	1	3	4
Do. Santaravur do.	...	1	2	3
Total, Kistna Delta System ...	...	16	56	72

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GOVERNMENT OF MADRAS.

APPENDIX F.

DISTRIBUTION OF NAVIGATION ESTABLISHMENT.—(Continued).

—	Boat Superintendent.	Superintendent.	Lascar.	Total.
CAUVERY DELTA SYSTEM.				
Tanjore Division.				
Tirupundal Dam and Thattuvancheri Locks ...	...	1	1	2
Total, Cauvery Delta System ...	...	1	1	2
Total, Navigation ...	1	64	256	321
ORDINARY AGRICULTURAL WORKS FOR WHICH NO CAPITAL AND REVENUE ACCOUNTS ARE KEPT.				
SOUTH ARCOT DISTRICT.				
Virudachallam Division.				
Lalpet Lock ...	...	1	4	5
Viranatham Lock ...	...	1	3	4
Porto-Novo do. ...	...	1	4	5
Total... South Arcot Ordinary Agricultural ...	...	3	11	14
Grand Total ...	1	67	267	335

DISTRIBUTION OF RIVER CONSERVANCY ESTABLISHMENT.

—	Superintendent.	Head Lascar.	Lascar.	Total.
ORDINARY AGRICULTURAL WORKS FOR WHICH NO CAPITAL OR REVENUE ACCOUNTS ARE KEPT.				
GANJAM DISTRICT.				
Berhampore Division.				
Mahanady river	...	...	4	4
Do. embankment	...	...	4	4
Total, Ganjam District ...	...	...	8	8
GODAVERY DISTRICT.				
Ellore Division.				
Polavaram river, embankment of river above head of delta	1	...	4	5
Total, Godavery District ...	1	...	4	5
SOUTH ARCOT DISTRICT.				
Virdachellum Division.				
Coleroon bank	1	...	4	5
Total, South Arcot District ...	1	...	4	5
TRICHINOPOLY DISTRICT.				
Musery Division.				
Cauvery Padugay	...	...	7	7
Udyarpalyam Division.				
Coleroon bank and padugays	...	...	12	12
Trichinopoly Division.				
Cauvery Padugay	...	...	17	17
Total, Trichinopoly District ...	...	...	36	36
Total, Ordinary Agricultural ...	2	...	52	54

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GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION, AND RIVER CONSERVANCY ESTABLISHMENTS.

System of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number		Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
				Water Regulation.	Navigation.					
GODAVARI DELTA SYSTEM.			Rs.			Rs.	Rs.	Rs.	Rs.	
Eastern Delta Division—										
Head Works	Anicut Superintendent	12	120	1	...	1,440	1,440	...	...	
	Maistry	12	18	1	...	216	216	...	...	
	Do.	12	15	1	...	180	180	...	...	
	Clerk	12	12	1	...	144	144	...	...	
	Do.	12	15	1	...	180	180	...	...	
	Shroff	12	15	1	...	180	180	...	...	
	Lascar	12	10	1	...	120	120	...	...	
Eastern Delta	Do.	12	6	25	...	1,800	1,800	...	...	
	Delta Superintendent	12	5	15	...	900	900	...	...	
	Do.	12	70	1	...	840	840	...	...	
	Do.	12	55	4	...	2,640	2,640	...	...	
	Lascar	12	40	3	...	1,440	1,440	...	...	
	Do.	12	6	2	...	144	144	...	...	
	Boat Superintendent	12	5	15	...	900	900	...	...	
	Lock do.	12	75	...	1	900	...	900	...	
	Do.	12	15	...	2	360	...	360	...	
	Do.	12	12	...	6	864	...	864	...	
	Do.	12	10	...	7	840	...	840	...	
	Lascar	12	8	...	4	384	...	384	...	
	Do.	12	6	...	60	4,320	...	1,320	...	
		12	5	...	23	1,320	...	1,320	...	
	Total, Eastern Delta Division ...	...	...	...	...	20,112	11,124	8,988	...	G.Os., Nos. 1,038 and 2,537, of 22nd April and 7th September 1874, respectively.
Central Delta Division	Delta Superintendent	12	70	2	...	1,680	1,680	...	...	
	Do.	12	55	1	...	660	660	...	...	
	Do.	12	40	2	...	960	960	...	...	
	Lascars	12	5	11	...	660	660	...	...	
	Lock Superintendent	12	12	...	2	288	...	288	...	
	Do.	12	10	...	3	360	...	360	...	
	Do	12	8	...	2	192	...	192	...	
	Lascar	12	6	...	21	1,512	...	1,512	...	
	Do.	12	5	...	7	420	...	420	...	
	Total, Central Delta Division ...	...	...	...	...	6,732	3,960	2,772	...	Do. do. and G.O., No. 1,587, of 15th June 1874.
Western Delta Division—										
Ellore High Level Channel ...	Lascar	12	6	2	...	144	144	...	...	
	Do.	12	5	6	...	360	360	...	...	
Western Delta	Delta Superintendent	12	70	2	...	1,680	1,680	...	...	
	Do.	12	55	5	...	3,300	3,300	...	...	
	Clerk	12	40	7	...	3,360	3,360	...	...	
	Lascar	12	15	1	...	180	180	...	...	
	Do.	12	6	1	...	72	72	...	...	
	Do.	12	5	2	...	120	120	...	...	G.Os., Nos. 1,038 and 2,537, of 22nd April and 7th September 1874, respectively.
	Do.	12	6	1	...	72	72	...	...	
	Lock Superintendent	12	5	28	...	1,680	1,680	...	...	
	Do.	12	12	...	5	720	...	720	...	
	Do.	12	10	...	6	720	...	720	...	
	Lascar	12	8	...	4	384	...	384	...	
	Do.	12	6	...	41	2,952	...	2,952	...	
		12	5	...	25	1,500	...	1,500	...	
Attali Canal Surplus Weir at 10½ miles	Superintendent	12	8	1	...	96	96	...	...	
	Lascar	12	6	1	...	72	72	...	...	G.Os., Nos. 3,591 and 757, of 21st December 1874 and 18th March 1875, respectively.
Bank Canal do. at 2nd mile ...	Superintendent	12	8	1	...	96	96	...	...	
	Lascar	12	6	1	...	72	72	...	...	

GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

System of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Establishments required.		Number of Months' pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
				Water Regulation.	Navigation.						
GODAVARI DELTA SYSTEM—(Continued.)			Rs.				Rs.	Rs.	Rs.	Rs.	
Western Delta Division—(*Contd.*)											
Bank Canal, Lock at Koder ...	Superintendent	7	10	...	1	7	70	...	70	...	G.Os., Nos. 3,591 and 757 of 21st December 1874 and 18th March 1875, respectively.
	Lascar	7	6	...	1	7	42	...	42	...	
	Do.	7	5	...	2	14	70	...	70	...	
Weir across the Gostanadi at 14 miles	Superintendent	12	8	1	...	12	96	96	...	...	
	Lascar	12	6	1	...	12	72	72	...	...	
Velpur Canal, Mamadur Lock, at 23¼ miles...	Superintendent	12	8	...	1	12	96	...	96	...	G.Os., Nos. 3,436 and 213, of 3rd December 1875 and 27th January 1876, respectively.
	Lascar	12	6	...	1	12	72	...	72	...	
	Do.	12	5	...	2	24	120	...	120	...	
Mogultur Lock	Lock Superintendent	12	12	...	1	12	144	...	144	...	G.Os., Nos. 1,038 and 2,537, of 22nd April and 17th September 1874 respectively.
	Lascar	12	6	...	2	24	144	...	144	...	
	Do.	12	5	...	3	36	180	...	180	...	
Gunnampad Lock	Lock Superintendent	12	10	...	1	12	120	...	120	...	
	Lascar	12	6	...	2	12	72	...	72	...	
	Do.	12	5	...	1	24	120	...	120	...	
Undi Canal, Head Lock	Superintendent	12	8	1	...	12	96	96	...	...	G.Os., Nos. 3,591 and 757, of 21st December 1874 and 18th March 1875, respectively.
	Lascar	12	6	1	...	12	72	72	...	...	
Do. Surplus Weir at 7½ miles ..	Superintendent	9	8	1	...	9	72	72	...	...	
	Lascar	9	6	1	...	9	54	54	...	...	
Do. do. at 15¾ „ ...	Superintendent	9	8	1	...	9	72	72	...	...	
	Lascar	9	6	1	...	9	54	54	...	...	
Nandamur Surplus Weir	Superintendent	12	8	1	...	12	96	96	...	...	G.Os., Nos. 1,038 and 2,537, of 22nd April and 7th September 1874.
	Lascar	12	6	1	...	12	72	72	...	...	
Travelling Allowances	Total ...	...	...	...	...	...	19,730	11,892	7,838	...	
	.....	...	...	...	...	...	1,763	1,763	...	...	Do. do.
	Total, Western Delta Division ...	...	...	...	...	170	21,493	13,655	7,838	...	
Ellore Division—											
Ellore Canal	Lock Superintendent	12	12	...	1	1	144	...	144	...	
	Lascar	12	6	...	4	4	288	...	288	...	
Ellore High Level Canal	Do.	12	5	...	2	2	120	...	120	...	
	Do.	12	5	1	...	1	60	60	...	...	
	Total, Ellur Division ...	...	...	...	...	8	612	60	552	...	Do. do.
	Total, Godavery Delta System ...	...	...	...	...	463	48,949	28,799	20,150	...	
KISTNA DELTA SYSTEM.											
Eastern and Western Delta Divisions—											
	Anicut Superintendent	12	100	1	...	1	1,200	1,200	...	...	
	Assistant do.	12	30	1	...	1	360	360	...	...	
	Clerk	12	15	1	...	1	180	180	...	...	
	Do.	12	12	1	...	1	144	144	...	...	
	Delta Superintendent	12	70	3	...	3	2,520	2,520	...	...	
	Do.	12	55	5	...	5	3,300	3,300	...	...	
	Superintendent	12	40	6	...	6	2,880	2,880	...	...	
	Lascars	6	10	3	...	3	180	180	...	...	
	Do.	12	8	19	...	19	1,824	1,824	...	...	
	Do.	12	7	19	...	19	1,596	1,596	...	...	
	Do.	12	6	27	...	27	1,944	1,944	...	...	
	Do.	12	5	28	...	28	1,680	1,680	...	...	
		6	6	23	...	23	828	828	...	...	

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GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Months' Pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
KISTNA DELTA SYSTEM—(Continued).									
Eastern and Western Delta Divisions—(Continued).			Rs.		Rs.	Rs.	Rs.	Rs.	
	Lock Superintendent	12	15	3	540	...	540	...	
	Do.	12	12	7	1,008	...	1,008	...	
	Do.	12	10	6	720	...	720	...	
	Lascars	12	8	12	1,152	...	1,152	...	
	Do.	12	7	12	1,008	...	1,008	...	
	Do.	12	6	16	1,152	...	1,152	...	
	Do.	12	5	16	960	...	960	...	
	Total	...	...	...	25,176	18,636	6,540	...	
	Travelling Allowances	...	...	...	744	744	...	...	
	Total, Kistna Delta System	...	...	...	25,920	19,380	6,540	...	G.O., No. 36 I, of 14th January 1878.
PENNER ANICUT SYSTEM.									
Nellore Southern Division—									
Southern Delta of Pennair	Anicut Superintendent	12	60	1	720	720	...	...	
	Delta do.	12	70	1	840	...	...		
	Clerk	12	15	1	180	180	...	...	
	Do.	12	10	1	120	120	...	...	G.Os., Nos. 2,688, of 16th August 1869, and 3,690, of 18th November 1869.
	Head Lascar	12	7	1	84	84	...	...	
	Do.	12	12	16	1,152	1,152	...	...	
Sarvepalli Branch Channel	Superintendent	12	6	1	70	70	...	...	G.Os., Nos. 2,482 and 34, of 28th September 1871, and 8th January 1872, respectively.
	Head Lascar	7	10	1	72	72	...	...	
	Do.	12	6	1	240	240	...	...	
Idagali Branch Channel	Superintendent	12	5	4	56	56	...	...	
	Lascar	7	8	1	70	70	...	...	
Kistnapatam Branch Channel	Superintendent	7	5	2	84	84	...	...	
	Lascar	7	12	1	245	245	...	...	G.Os., Nos. 2,687 and 3,690, of 16th August and 18th November 1869, respectively.
Iduru Branch	Superintendent	7	5	7	56	56	...	...	
	Lascar	7	8	1	140	140	...	...	
Leburu do.	Superintendent	7	5	4	70	70	...	...	
	Lascar	7	10	1	175	175	...	...	
	Total Nellore Southern Division	7	5	5	4,374	4,374	...	...	
	Total Pennair Anicut System	...	...	49					
	Total	...	...	...					
CHINGLEPUT DISTRICT.									
St. Thomas' Mount Division—									
Chembrambaukam Tank—									
Kesavaram Anicut and Old Bungaru Channel	Superintendent	12	10½	1	126	126	...	...	
	Lascar	12	5	2	120	120	...	...	
Korattur Anicut, New Bungaru and Chembrambaukam Tank	Superintendent	12	12	1	144	144	...	...	
	Lascar	12	6	2	144	144	...	...	
	Do.	12	5	3	180	180	...	...	
	Total Mount Division Chembrambaukam Tank	...	...	9	714	714	...	...	G.Os., Nos. 1,619 and 2,229, of 21st June and 9th September 1873, respectively.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION, AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Months' Pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
			Rs.		Rs.	Rs.	Rs.	Rs.	
PALAR ANICUT SYSTEM.									
Chingleput Division—									
Kambankal Channel	Lascar	12	4	12	576	576	...	...	
	Maistry	12	20	1	240	240	...	...	
	Lascar	12	6	2	144	144	...	...	
	Total, Chingleput Division ...	...	...	15	960	960	...	...	G.Os., Nos. 1,619 and 2,229, of 21st June and 9th September 1873, respectively.
NORTH ARCOT DISTRICT.									
Walaja Division—									
Palar Anicut	Superintendent	12	25	1	300	300	...	...	
Kaveripak Tank	Lascar	12	4½	4	216	216	...	...	G.O., No. 1,785, of 31st August 1868.
Mahindravadi	Superintendent	12	12	1	144	144	...	...	
Govindavadi Channel	Lascar	12	4½	2	108	108	...	...	
	Superintendent	12	12	1	144	144	...	...	Do. do. do.
	Lascar	12	4½	3	162	162	...	...	
	Superintendent	12	12	1	144	144	...	...	
	Lascar	12	4½	3	162	162	...	...	
	Total, Walaja Division ...	...	...	16	1,380	1,380	...	...	
Vellore Division—									
Dusai Tank and Channel	Superintendent	12	15	1	180	180	...	...	
	Lascar	12	4½	3	162	162	...	...	
	Total, Vellore Division ...	...	...	4	342	342	...	...	G.O., No. 3,309, of 8th December 1866.
	Total, Palar Anicut System ...	...	...	35	2,682	2,682	...	...	
PELANDORAI ANICUT SYSTEM.									
South Arcot District.									
Virdachalam Division—									
Pelandorai Anicut	Superintendent	12	30	1	360	360	...	...	
	Lascar	12	4	6	288	288	...	...	
	Total... Virdachalam Division	...	...	7	648	648	...	...	G.Os., Nos. 1,026, and 1,657, of 21st April and 19th June 1874, respectively.
	Total... Pelandorai Anicut System	...	...						
CAUVERY DELTA SYSTEM.									
Tanjore District.									
Manargudi Division—									
Harichendranadi and Mulliyur ...	Superintendent	12	10	1	120	120	...	...	
	Lascar	12	5	1	60	60	...	...	
Panduviyar and Velliyar Heads ...	Do.	12	4	4	192	192	...	...	
	Superintendent	12	15	1	180	180	...	...	
Adiviraramanar Head	Lascar	12	6	2	144	144	...	...	
	Do.	12	4	12	576	576	...	...	
	Superintendent	12	8	1	96	96	...	...	
	Total, Manargudi Division ...	...	...	22	1,368	1,368	...	...	G.Os., Nos. 2,068 and 2,735, of 19th August and 19th November 1873, respectively.
Mayaveram Division—									
Open Anicut	Lascar	12	5	1	60	60	...	...	
	Do.	12	4	1	48	48	...	...	

GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION, AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

System of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Months' Pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
CAUVERY DELTA SYSTEM—(Continued).									
Mayaveram Division—(*Continued*).			Rs.		Rs.	Rs.	Rs.	Rs.	
Sellur Anicut	Lascar	12	6	1	72	72	...	...	
	Do.	12	4	1	48	48	...	...	
Odambayi and Zengam Korambu (temporary or earthen dam) ...	Do.	12	5	1	60	60	..	...	
Vettar dam and Chittar head at Kangalancheri	Superintendent	12	8	1	96	96	...	...	
	Lascar	12	5	1	60	60	...	...	
	Do.	12	4	2	96	96	...	...	
	Total, Mayaveram Division ...	...	...	...	540	540	...	...	G.Os., Nos. 2,068 and 2,735, of 19th August and 10th November 1873, respectively.
Negapatam Division—									
Odambagiyar Anicut at Kulligudi	Lascar	12	5	1	60	60	...	...	
Kaduviyar Anicut at Vadugacheri	Do.	12	5	1	60	60	...	...	
Vandel Anicut	Do.	12	5	1	60	60	...	...	
Pullevenar	Do.	12	5	1	60	60	...	...	
Devadanam Calingulah	Do.	12	5	1	60	60	...	...	
Adapar	Do.	12	6	1	72	72	...	...	
	Do.	12	4	1	48	48	...	...	
	Total, Negapatam Division ...	...	...	...	420	420	...	...	Do. do. do.
Tanjore Division—									
Upper Anicut	Superintendent	12	15	1	180	180	...	...	
	Lascar	12	6	2	144	144	...	...	
	Do.	12	5	2	120	120	...	...	
	Do.	12	4	8	384	384	...	...	
Grand Anicut, Vennar Head and Koviladi Calingulah and Banks.	Superintendent	12	12	1	144	144	...	...	
Grand Anicut	Lascar	12	6	1	72	72	...	...	
	Do.	12	5	1	60	60	...	...	
Vennar Head	Do.	12	4	3	144	144	...	...	
	Do.	12	6	1	72	72	...	...	
Koviladi Calingulah	Do.	12	4	3	144	144	...	...	
	Do.	12	5	1	60	60	...	...	
Kodamurti Head and Alamelpuram	Do.	12	4	3	144	144	...	...	
	Superintendent	12	5	1	60	60	...	...	
	Lascar	12	4	1	48	48	...	...	
Ponni and Kutchemangalam Anais.	Do.	12	10	1	120	120	...	...	
	Superintendent	12	5	4	240	240	...	...	
	Lascar	12	4	3	144	144	...	...	Do. do. do.
	Do.	12	10	1	120	120	...	...	
Vaduvagudi	Do.	12	6	1	72	72	...	...	
	Superintendent	12	5	1	60	60	...	...	
	Lascar	12	4	7	336	336	...	...	
	Do.	12	8	1	96	96	...	...	
Thenperambur Zembu Kaveri, Vettar head		12	5	1	60	60	...	...	
	Superintendent	12	4	3	144	144	...	...	
	Lascar	12	17½	1	210	210	...	...	
	Do.	12	6	2	144	144	...	...	
Vennaputhur and Puliempulam Anais	Do.	12	5	2	120	120	...	...	
	Superintendent ...	12	4	14	672	672	...	...	
	Lascar	12	8	1	96	96	...	...	
		12	6	1	72	72	...	...	

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GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of months for which required.	Rate per Mensem.	Number of Establishments. Water Regulation.	Navigation.	River Conservancy.	Total.	Number of months' pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
			Rs.						Rs.	Rs.	Rs.	Rs.	
Cauvery Delta System—Continued.													
Tanjore Division—(*Continued*).													
Manni head	Lascar	12	5	1	...	...	1	12	60	60	...	...	
	Do.	12	4	2	...	...	2	24	96	96	...	...	
	Superintendent	12	8	1	...	...	1	12	96	96	...	...	
Merathur Anicut	Lascar	12	5	1	...	...	1	12	60	60	...	...	
	Do.	12	4	4	...	...	4	48	192	192	...	...	
Kaveri and Virasholam dam ...	Superintendent	12	8	1	...	...	1	12	96	96	...	...	
	Lascar	12	4	2	...	...	2	24	96	96	...	...	
Perumal Covil sluice and Arasalar head	Superintendent	12	7	1	...	...	1	12	84	84	...	...	
	Superintendent	12	12	1	...	...	1	12	144	144	...	...	
Mannyar dam and sluices at Upper and Lower locks ...	Lascar	12	5	2	...	...	2	24	120	120	...	...	
	Do.	12	4	3	...	...	3	36	144	144	...	...	
	Superintendent	12	10	1	...	...	1	12	122	122	...	...	
Tirupandal dam and Thattuvamcheri locks ...	Lascar	12	6	2	...	...	2	24	144	144	...	...	
	Do.	12	4	4	...	...	4	48	192	192	...	...	
	Superintendent	12	15	1	...	...	1	12	180	180	...	...	
Korayur and Pemmaniyar head works	Lascar	12	6	1	...	...	1	12	72	72	...	...	
	Do.	12	5	1	...	...	1	12	60	60	...	...	
	Do.	12	4	8	...	...	8	96	384	384	...	...	
	Total, Tanjore Division ...	...	...	...	...	...	108	...	6,774	6,618	156	...	G.Os., Nos. 2,068 and 2,735 of 19th August and 10th November 1873, respectively.
	Total, Kaveri Delta System ...	...	...	...	...	...	146	...	9,102	8,946	156	...	
Srivaikuntam Anicut System.													
Tinnevelly District, Tinnevelly Division—													
Srivaikuntam Anicut Channels ...	Superintendent	12	12	1	...	...	1	12	144	144	...	...	
	Maistry	12	30	2	...	...	2	24	720	720	...	...	
	Lascar	12	5	2	...	...	2	24	120	120	...	...	
	Do.	12	5	17	...	...	17	204	1,020	1,020	...	...	
	Do.	3	5	3	...	...	3	9	45	45	...	...	
	Do.	12	5	2	...	...	2	24	120	120	...	...	
	Total { Tinnevelly Division ... Srivaikuntam Anicut System ... ... }	...	...	...	...	...	27	...	2,169	2,169	...	...	G.Os., Nos. 82,581, 1,326 and 1,899 of 10th January and 21st February 1873, and 18th May and 5th July 1875, respectively.
	Total, for Systems	...	...	...	...	...	885	...	94,568	67,712	26,846	...	
Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept.													
Chingleput District, Mount Division—													
Madras Water Works	Superintendent	12	25	1	...	...	1	12	300	300	...	...	
	Do.	12	15	1	...	...	1	12	180	180	...	...	
	Lascar	12	7	4	...	...	4	48	336	336	...	...	
	Do.	12	6	2	...	...	2	24	144	144	...	...	
	Do.	12	5	4	...	...	4	48	240	240	...	...	
	Total, Madras Water Works ...	...	...	...	...	...	12	...	1,200	1,200	...	...	G.Os., Nos. 1,619, and 2,229 of 21st June and 9th September 1873, respectively.

GOVERNMENT OF MADRAS.

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APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION, AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Men employed on Water Regulation.	Number of Men employed on Navigation.	Number of River Conservancy.	Total.	Number of Months' pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept—(*Continued*).			Rs.						Rs.	Rs.	Rs.	Rs.	
Sirular Division—													
Vallur Anicut	Superintendent	12	10½	1	...	...	1	12	126	126	...	...	G.Os., Nos. 1,619 and 2,229 of 21st June and 9th September 1873, respectively.
	Lascar	12	6	1	...	...	1	12	72	72	...	...	
	Do.	12	5	1	...	...	1	12	60	60	...	...	
	Total, Vallur Anicut ...	...	...	...	...	...	3	...	258	258	...	...	
	Total, Chingleput District ...	...	...	...	...	...	15	...	1,458	1,458	...	...	
Coimbatore District, Irrigation Division—													
Caniempolliem Channel	Lascar	12	5	1	...	...	1	12	60	60	...	...	
	Do.	12	2½	4	...	...	4	48	120	120	...	...	
	Total, Coimbatore District ...	...	...	...	...	...	5	...	180	180	...	...	Govt. of India Register No. 47 of 1876; and G.O., No. 235, of 25th Jan. 1877.
Ganjam District, Berhampore Division—													
Jupili Anicut and Head sluice ...	Lascar	12	4	4	...	...	4	48	192	192	...	...	G.O., No. 1,311, of 23rd August 1870, Revenue Department; and No. 17, of 3rd September 1870, Public Works Department.
Boary Reservoir	Do.	12	3½	1	...	...	1	12	42	42	...	...	
Mahanady River	Do.	6	3½	1	...	4	5	30	105	21	...	84	
Do. Embankment	Do.	12	3½	...	...	4	4	48	168	...	...	168	
	Total, Berhampore ...	...	...	...	...	...	14	...	507	255	...	252	
Chikkakol Division—		...	...	...	...	...	...	...	...	...	...	...	
River Vimsadara, left bank ...	Lascar	12	7	1	...	...	1	12	84	84	...	...	
Do. do., do. ...	Do.	12	4	4	...	...	4	48	192	192	...	...	
Do. do., right bank ...	Do.	12	7	1	...	...	1	12	84	84	...	...	
Do. do., do. ...	Do.	12	4	2	...	...	2	24	96	96	...	...	
Langulia, left bank	Do.	12	7	1	...	...	1	12	84	84	...	...	
Do. do.	Do.	12	4	4	...	...	4	48	192	192	...	...	
	Total, Chikkakol ...	...	..	...	...	...	13	...	732	732	...	...	
	Total, Ganjam District ...	...	...	...	...	...	27	...	1,244	992	...	252	
Godavari District, Ellore Division—													
Yernagudum Taluq	Lascar	12	9	1	...	...	1	12	108	108	...	...	G.O., No. 560 I, dated 3rd December 1877, Public Works Department.
Bayana Weir	Do.	12	7	1	...	...	1	12	84	84	...	...	
	Total, Bayana Weir ...	...	...	...	...	...	2	...	192	192	...	...	
Polaveram River Embankment or right embankment of river above head of Delta.	Superintendent	12	15	...	...	1	1	12	180	...	...	180	G.O., No. 1,105, of 4th April 1877, Public Works Department.
	Lascar	12	6	...	...	4	4	48	288	...	..	288	
	Total, Polaveram River embankment	..	.	...	..	...	5	..	468	...	...	468	
	Total, Ellur Division ...	...	...	...	...	...	7	...	660	192	...	468	
Rajahmundry Division—													
Rajahmundry and Peddapur Taluqs.	Superintendent	12	20	1	...	...	1	12	240	240	...	...	
	Do.	12	10	3	...	...	3	36	360	360	...	...	
	Lascar	12	5	1	...	...	1	12	60	60	...	...	
Yelleru River	Do.	12	5	3	...	...	3	36	180	180	...	...	
	Superintendent	12	10	1	...	...	1	12	120	120	...	...	
	Lascar	12	7	2	...	...	2	24	168	168	...	...	
	Total, Rajahmahindri Division ..	...	...	...	...	...	11	...	1,128	1,128	...	...	
	Total, Godavery District ...	...	..	...	...	...	18	...	1,788	1,320	...	468	

GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of Months for which required	Rate per Mensem.	Number of Months pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept—(Continued).			Rs.		Rs.	Rs.	Rs.	Rs.	
Kistna District, Eastern Delta Division—									
Calingulah at Moparru on Budamer	Lascar	5	5	15	75	75	...	...	G.Os., Nos. 2,716 and 3,228, of 25th Aug. and 13th October 1868, respectively.
Western Delta Divison—									
Paudla sluice and three calingulahs at Pondrapad	Do.	6	6	12	72	72	...	...	
Nallawada and Mulapalem calingulahs	Superintendent	6	10	6	60	60	...	...	
Parchur Vagu and Sakikalva calingulah and sluices	Lascar	6	6	24	144	144	...	...	G.Os., Nos. 2,408 and 3,446 A, of 8th August and 6th November 1867, respectively.
Aramanda channel	Do.	6	6	18	108	108	...	...	
Aleru calingulah	Superintendent	6	10	6	60	60	...	...	
	Lascar	6	6	18	108	108	...	...	
	Superintendent	6	10	6	60	60	...	...	
	Lascar	6	6	24	144	144	...	...	
	Total, Kistna ...	...	...	22	831	831	...	...	
Madura District—									
Madura Division	Lascar	12	4	48	192	192	...	...	G.O., No. 1,311, of 23rd August 1870, Revenue Department; and G.O., Public Works Department, No. 17, of 3rd September 1870.
Malabar District—									
Palghaut Division	.....	...	...	...	222	222	...	...	G.O., Revenue Department, No. 1,311, of 23rd August 1870; and G.O., Public Works Department, No. 1,770, of 3rd September 1870, respectively.
Nellore District, Southern Division—									
Nellore tank	Superintendent			1	4	28	28	...	...	G.O., No. 971, of 23rd May 1861.
Vaguru channel and head sluice ...	Lascar	4	7	2	8	40	40	...	...	
Gandavaram and Duvvuru channel and head sluices, Sangam ...	Do.	4	5	4	16	80	80	...	...	G.O., No. 3,510, of 30th November 1863.
	Superintendent	4	5	1	4	28	28	...	...	G.O., No. 3,309, of 8th December 1866 Revenue Department.
Chennur channel head sluice ...	Lascar	4	7	4	16	80	80	...	...	G.Os., Nos. 1,433 and 2,472, of 1st June and 1st September 1874, respectively.
	Superintendent	4	5	1	4	28	28	...	...	
	Lascar	4	7	2	8	40	40	...	...	
	Total, Nellore ...	...	...	15	...	324	324	...	...	
North Arcot District, Walaja Division—									
Poini anicut and channel	Superintendent	4	5	1	4	144	144	...	..	G.Os., Nos. 2,148 and 3,541, of 26th July and 14th December 1875, respectively.
	Do.	12	12	1	12	240	240	...	...	
Chittur Division—	Lascar	12	20	7	84	420	420	...	...	
Poineri anicut and channel ...	Do.	12	5	2	24	120	120	...	...	
Polur Division—									
Cheyair anicut	Superintendent	12	5	1	12	324	324	...	...	G.O., No. 168, of 16th January 1864.
	Do.	12	27	1	12	240	240	...	...	
Aliabad dam and channel ...	Lascar	12	20	6	72	360	360	...	...	
	Superintendent	12	5	1	12	120	120	...	...	G.Os., Nos. 2,962 and 3,495, of 15th September and 10th November 1868, respectively.
	Lascar	12	10	5	60	360	360	...	...	
	Total, North Arcot ...	12	6	25	...	2,328	2,328	...	...	
South Arcot District, Lower Coleroon Anicut—		...	...	...					
Virudachalum Division—									
Viranam tank	Lascar	12	4	4	16	192	192	...	...	
Lalpet lock	Superintendent	12	14	1	12	168	...	168	...	
	Lascar	12	4	4	48	192	...	192	...	

GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Months' pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept—(Continued).			Rs.		Rs.	Rs.	Rs.	Rs.	
Viranatham lock	Superintendent	12	7	1	84	...	84	...	
	Lascar	12	4	3	144	...	144	...	
Porto-Novo lock	Superintendent	12	10	1	120	...	120	...	
	Lascar	12	4	4	192	...	192	...	
Coleroon bank	Superintendent	12	7	1	84	...	...	84	
	Lascar	12	4	4	192	...	...	192	
Vellar anicut	Superintendent	12	35	1	420	420	...	...	
	Lascar	12	4	6	288	288	...	...	
Anicut across Manimuthanadi near Virudachalam.	Do.	12	4	4	192	192	...	...	
Virudachalam Division—									
Walaja tank	Do.	12	4	2	96	96	...	...	
Memathur anicut across the Manimuthanadi.	Superintendent	12	25	1	300	300	...	...	
	Lascar			3	36				
Kattumailur anicut across the Maiyurnadi.	Do.	12	4	1	144	144	...	...	
				1	12	48	48	...	...
Caddalur Division—									
Trivadi anicut across Guddilam ...	Lascar			1	12	48	48	...	...
Vanamadevi anicut across do. ...	Do.	12	4	1	12	48	48	...	...
Trivendipuram anicut do. do. ...	Do.	12	4	1	12	48	48	...	...
Punaiyar anicut at Trikalur ...	Superintendent	12	4	1	12	300	300	...	...
	Lascar			1	12	288	288	...	...
Perumal tank	Do.	12	25	1	12	96	96	...	...
Alangal channel from Punaiyur ...	Do.	12	4	6	12	48	48	...	...
	Do.	12	4	2					G.Os., Nos. 1,026 and 1,657, of 21st April and 19th June 1874, respectively.
		12	4	1					
	Total, South Arcot ...	...	...	...	54	...	3,732	2,556	900	276	
Tanjore District, Tanjore Division—									
Lower Anicut	Superintendent	12	15	1	12	180	180	...	...
	Lascar	12	6	1	12	72	72	...	...
	Do.	12	5	1	12	60	60	...	...
	Do.	12	4	6	12	288	288	...	...
	Total, Tanjore ...	...	...	...	9	...	600	600	...	...	
Tinnevelly District	Lascar								
	Do.	12	7	5	5	420	420	...	...
	Do.	12	5	2	2	120	120	...	...
	Do.	12	2	26	26	624	624	...	...
	Do.	12	8	7	7	672	672	...	...
		12	6	7	7	504	504	...	...
	Total, Tinnevelly ...	...	...	...	47	...	2,340	2,340	...	...	G.O., R.D., No. 1,311, of 23rd August 1870; and G.O., P.W.D., No. 17, of 3rd September 1870.
Trichinopoly District, Museri Division—									
Kaveri Padugai	Lascar			2	1	24	60	...	...	60	G.O., No. 2,777, of 17th October 1876; and No. 3,302, of 7th December 1876.
	Do.	12	2½	1	1	12	84	...	...	84	
	Do.	12	7	3	1	36	144	...	...	144	
Korambu Establishment	Do.	12	4	1	3	12	36	...	...	36	G.O., No. 2,277, of 13th August 1863.
	Do.	12	3	2	1	24	96	96	...	...	
	Do.	12	4	1	2	12	36	36	...	...	
	Do.	12	3	1							
	Total, Museri ...	...	...	...	10	...	456	132	...	324	

GOVERNMENT OF MADRAS.

APPENDIX G.

DETAIL OF ESTIMATE FOR WATER REGULATION, NAVIGATION AND RIVER CONSERVANCY ESTABLISHMENTS—(*Continued*).

Systems of Works, Divisions, &c.	Designation.	Number of Months for which required.	Rate per Mensem.	Number of Months' pay to be provided.	Cost.	Water Regulation.	Navigation.	River Conservancy.	References.
Ordinary Agricultural Works for which no Capital or Revenue Accounts are kept—(*Continued*).			Rs.		Rs.	Rs.	Rs.	Rs.	
Udaiyarpalaiyam Division									
Nanthyar and Kalaiyar heads and Nanthyar channel.	Superintendent	12	12	1	144	144	...	...	
	Do.	12	10	1	120	120	...	...	
	Lascar	12	5	2	120	120	...	...	
Penneri head and channel	Do.	12	4	11	528	528	...	...	
	Superintendent	12	15	1	180	180	...	...	
	Do.	12	10	1	120	120	...	...	
	Lascar	12	4	1	48	48	...	...	
	Do.	12	4	4	192	192	...	...	
Colercon bank and Padugais	Do.	12	3	2	72	72	...	...	
	Do.	12	4	...	336	...	...	336	
	Do.	12	3	...	72	...	...	72	
	Do.	12	4	...	90	...	...	90	
	Do.	12	3	...					
	Total, Udaiyarpalaiyam ...	...	...	...	2,022	1,524	...	498	
Cauvery Padugai (Trichinopoly Division).	Lascar	12	2½	...	150	...	...	150	G.O., No. 3,430, of 15th November 1867; and G.O., No. 207, of 31st January 1868.
	Do.	12	4	...	144	...	...	144	
	Do.	12	7	...	84	...	...	84	
	Do.	12	4	...	336	...	...	336	G.O., No. 2,777, dated 17th Oct. 1876; and No. 3,302, of 7th December 1876.
Korambu Establishment	Do.	12	3	...	36	...	...	36	
	Do.	12	5	1	60	60	...	...	G.O., No. 2,277, of 13th August 1863; and Government of India No. 3,324, of 28th December 1869, Financial Department.
	Do.	12	3	1	36	36	...	...	
	Total, Trichinopoly ...	...	...	...	846	96	...	750	
	Total, Trichinopoly District ...	...	...	...	3,324	1,752	...	1,572	
Vizagapatam District, Golconda Division—									
Saradanadi	Superintendent	12	12	2	288	288	...	...	
	Lascar	12	5	7	420	420	...	...	
Varahanadi	Do.	7	4½	4	126	126	...	...	
	Superintendent	12	12	1	144	144	...	...	G.O., No. 208, of 25th January 1875; and No. 1,807, of 29th June 1875.
	Lascar	12	5	6	360	360	...	...	
	Do.	7	4½	6	189	189	...	...	
	Total, Vizagapatam ...	...	...	...	1,527	1,527	...	...	
Total, Ordinary Agricultural ...		...	...	...	20,090	16,622	900	2,568	
	Grand Total ...	...	...	...	1,14,648	84,334	27,746	2,568	

Rec'd 5/14/78

Ans 18th Dec 78 N 3062