Public Works (1897) Department.

G.O., No 20536
20545

DATED 28 July 97

Indent for Tools & Materials required

[Despatch Abstract.]

Indent: Orders that the — for iron required for improvements to the Upper Coleroon Anicut of the Cauvery Delta System be forwarded to the Director General of Stores for Compliance.

Indent, Forwarding, for favour of very early compliance, an — for iron required for improvements to the Upper Coleroon Anicut of the Cauvery Delta System

B
28/7/97

90/47
50/2

P.W. 20.
1,700—30-11-96.

Indexed

BACK PAPERS.

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

FURTHER PAPERS.

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

GENERAL.
ACCOUNT.

Government {1897} of Madras.

PUBLIC WORKS.

Recd. } 1897. *Enclosures*

Regd. *Spare copies*

Letter, No. 2054 W., 28th July 1897.

JULY.

Indent

Forwarding, for favour of very early compliance, an — for iron required for improvements to the Upper Coleroon anicut of the Cauvery delta system.

No. 2054 W., 28TH JULY 1897.

PUBLIC WORKS DEPARTMENT.

General.
Account.

LETTER—from

THE HON'BLE COLONEL D. McNEIL CAMPBELL, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE DIRECTOR-GENERAL OF STORES,
INDIA OFFICE, LONDON.

SIR,

I am directed to forward, for favour of very early compliance, an indent, in duplicate, for iron required for improvements to the Upper Coleroon anicut of the Cauvery delta system.

2. The necessary certificate, by the Examiner of Public Works Accounts, as regards provision of funds, has been endorsed on the original indent.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) D. McNEIL CAMPBELL, Colonel, R.E.,
Secretary to Government.

OOTACAMUND,
28th July 1897.

Exd. W. D'Moss.

GENERAL.
ACCOUNT.

Government {1897} of Madras.

PUBLIC WORKS.

Recd. } 1897. *Enclosures*
Regd. } *Spare copies*

G.O., No. 2053 W., 28th July 1897.

JULY.

Indent

Ordered that the — for iron required for improvements to the Upper Coleroon anicut of the Cauvery delta system be forwarded to the Director-General of Stores for compliance.

P. W.
1,500—13-4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers:—

From Lieutenant-Colonel C. C. RAWSON, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department (through the Examiner of Public Works Accounts), dated Chepâk, 25th June 1897, No. 211 W.

I have the honour to forward the enclosed special Indent No. 7 for 1897-98, in triplicate, on England, for iron required for the work "Improvements to the Upper Coleroon anicut", estimate Rs. 5,34,000, sanctioned in G.O., No. 500 I., dated 28th May 1897, during the current official year.

Office-note from the Examiner, Public Works Accounts, No. 2120 D./B., dated 3rd July 1897.
Do. to the Chief Engineer for Irrigation, No. 3129 C., dated 8th July 1897.
Do. from do. „ 199, dated 12th July 1897.
Do. to the Examiner, Public Works Accounts, No. 3216 C., dated 15th July 1897.
Do. from do. „ 2282 D./B., dated 17th July 1897.

ORDER—No. 2053 W., dated 28th July 1897.

The indent will be forwarded to the Director-General of Stores for compliance.

[Here enter No. 2054 W., dated 28th July 1897.]

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, V Circle.
„ Examiner, Public Works Accounts.
„ Chief Engineer for Irrigation.

Exd. W. D'Moss.

Public Works DEPARTMENT

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following.

From the Supdg. Engineer V Circle No: 211 W a/25 June 1897
Affix Note from the Examiner P. W. Accounts No: 2120 D/B a/3 July 1897
Affix Note to the Chief Engr. for Irrigation No: 3129 C a/8 July 1897
— do — from ——— do ——— No: 199 a/12 July 1897
— do — to the Examiner P. W. Accounts No: 3216 C a/15 July 1897
— do — from ——— do ——— No: 2282 D/B a/17 July 1897

No 2053 W, 28.7.97
The indent will be forwarded to the Director General of Stores for compliance.

To
The S. E. V Circle
" Exr. P. W. Accounts
" Chief Engineer for Irrigation

H. E. No: 2054 W a/ 28.7.97

To
The Director General of Stores,
India office,
London.

Sir,

I am directed to forward, for favour of very early compliance, an indent, in duplicate, for iron required for improvements to the Upper Coleroon Anicut of the Cauvery Delta System.

2. The necessity [illegible] by the Examiner of P. W. Accts

[P. W. 40. 1,500—13-4-97.]

H.E. 29.7.97 Rd. 7.97

as regards provision of funds has been endorsed on the original indent.

I have &c.

23/7/97
W

Cs

Maj

Public Works (1897) Department.

CURRENT No. 7049

EXAMINER, P. W. ACCOUNTS. 28 JUN. 1897 No.....

CHIEF ENGINEER FOR [illegible] 10 JUL 1897 No.....

EXAMINER, P. W. ACCOUNTS. 17 JUL. 1897 No.....

Order

From The Supg Engineer 5th Circle

No. 218.

Dated 25th June 1897

Received 19.7.97

Enclosures 1 Indent (in triplicate)

Spare copies

2053 W
2054 3

SUBJECT.

Special Indent in triplicate on England

Forwarding the Stores required for the work "Improvements to the Upper Colaroon anicut" Estimate Rs 6,34,000.

B

OL-S.313 R29/7

BACK PAPERS.

G.O.	No.	Department.	Date.
	3216 C	Br.	15-7-97
	3129 C	"	6-7-97
500-I		"	28-5-97
3929			23-6-97

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Urgent

No. 211 W.

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Chepâk, 25th June 1897

From

Lt.-Col. C. C. Rawson R.E.
SUPERINTENDING ENGINEER,
V CIRCLE,

EXAMINER, P. W. ACCOUNTS. 17 JUL. 1897 No.

EXAMINER, P. W. ACCOUNTS. 28 JUN. 1897 No.

To

THE Chief Engineer,
Public Works Department,
through the Examiner of P. W. Accounts,
Madras

SIR,

I have the honour to forward the enclosed special Indent No. 7 for 1897-98, in triplicate on England for iron required for the work "Improvements to the Upper Coleroon Anicut" estimate Rs 5,34,000 sanctioned in G. O. No: 500 I dt/28 May 1897, during the current official year.

Enclosures.
1 Indent in triplicate.

× Original Put up with ccp 6243
Sent to P Office 29/6

I have the honour to be,
Sir,
Your most Obedt. Servant

C. Rawson Lt Col RE
25/6/97
Superintending Engineer.
V Circle

500—31-8-97.

CHIEF ENGINEER
FOR IRRIGATION.
10 JUL. 1897
No. 149

Public Works (1897) Department.

CURRENT No. 6565

From The Examiner of P.W. Accounts.

C No. 3129(C,D) 8-7-97

~~Order~~

To C.I.

No. 2120 D/B

Please say whether the requisite funds will be provided during the current year.

Dated 3-7-97

Received 5-7-97

Registered

Enclosures 4 (1 in Triplicate)

Spare copies

SUBJECT.

Indent No. 7 of 1897-98:

Requests to be informed whether grant to meet the value of the — will be provided for during the current year.

8/7/97

13/7/97

BACK PAPERS.

No.	Date.
500-W	28-5-97

FURTHER PAPERS.

No.	Date.

Public Works (1897) Department.

CURRENT No. 6884

From The Chief Engineer for Irrigation

No. 199

Dated 12-7-97

Received 14-7-97

Registered

Enclosures 2* (1* in triplicate)

Spare copies

No. 3216c, D 15-7-97

Order

To

C

For information

(Sd) C. Harris.

D 16/7/97

SUBJECT.

Stating that an allotment of Rs 39430 has been provided abroad for the work "Improvements to the Upper Coleroon Anicut

16/7/97

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

IRRIGATION.
ACCOUNT.

Government {1897} of Madras.

PUBLIC WORKS.

Recd. } 1897. *Enclosures*

Regd. } *Spare copies*

G.O., Nos. 500, 501 I., 28th May 1897.

MAY.

Upper Coleroon Anicut, Cauvery Delta System

Forwarding copy of Proceedings requesting that the classification of the work "Improvement of the —" may be altered to "unremunerative."

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

From N. F. MACKENZIE, Esq., Under Secretary to the Government of India, Public Works Department (Civil Works—Irrigation), to the Joint Secretary to the Government of Madras, Public Works Department, Irrigation Branch, dated Simla, 1st May 1897, No. 126 I.

I am directed to acknowledge the receipt of the Proceedings of the Government of Madras, No. 299 I., dated the 22nd March 1897, copy forwarded under your No. 300 I. of the same date, and, in reply, to communicate the sanction of the Government of India to the estimate submitted therewith, amounting to Rs. 6,57,000, including establishment and tools and plant charges, for the improvement of the Upper Coleroon anicut, Cauvery delta system, chargeable to the open Capital account of the system.

2. The Madras Government consider that the work should be classed as "remunerative," but I am to point out that the papers submitted nowhere show what extension of irrigation is expected from the improvement of the work or what return on the Capital outlay may be anticipated, so that the Government of India have no means of determining how far the proposed classification of the work as remunerative is justified. I am to say, however, that pending receipt of the necessary information on the subject, the classification has been accepted for the present.

3. The sanction accorded in paragraph 1 above has been registered as No. 5 I. of 1897–98, and the estimates and plans received with the Madras Government Proceedings under acknowledgment are returned herewith.

ORDER—No. 500 I., dated 28th May 1897.

Communicated to the Superintending Engineer, V Circle, with reference to G.O., No. 299 I., dated 22nd March 1897.

2. The sanction accorded by the Government of India is registered as No. 28 I. of 1897–98.

3. With reference to paragraph 2 of the foregoing letter, the Government observes that the proposed improvement to the Upper anicut should be included in the list of works not primarily intended for the extension of irrigation, but for a more effective control of the existing canal system. As remarked by the Inspector-General of Irrigation in paragraph 33 of his note communicated with letter, No. 128 I., dated 1st May 1897, from the Government of India, any improvement in the control of the

Cauvery waters will probably result in an increase of irrigation and revenue; but as this cannot be demonstrated at present, a copy of these Proceedings will be forwarded to the Government of India with a request that the classification of the work may be altered to "unremunerative."

[Here enter No. 501 I., dated 28th May 1897.]

(True Extract.)

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

To the Chief Engineer for Irrigation.
" Superintending Engineer, V Circle.
" Superintending Engineer on Special Duty, Cauvery Completion Estimates.
" Examiner, Public Works Accounts.

ENDORSEMENT—No. 501 I., dated 28th May 1897.

Forwarded.

(By order.)

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

Exd. T. K. Narayana Aiyangar.

IRRIGATION.
ACCOUNT.

Government {1897} of Madras.

PUBLIC WORKS.

Recd.	1897.	*Enclosures*
Regd.		*Spare copies*

G.O., No. 392 I., 23rd April 1897.

APRIL.

Irrigation Budget Estimates

The final issue of the — for 1897–98, as drawn up by the Chief Engineer for Irrigation, approved and copies thereof ordered to be forwarded to the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

No. 95 I.

Note by the Chief Engineer for Irrigation.

The accompanying final issue of the budget estimates of the Irrigation Branch for 1897–98, which has been prepared to work up to the following grants approved by the Government of India in its orders, No. $\frac{4}{B.O.,}$ A.I., dated 19th March 1897, printed in Proceedings of Madras Government, No. 337 I., dated 3rd April 1897, is submitted to Government:—

		RS.
35.	Construction of Protective works, Irrigation—Imperial ...	1,69,500
42.	Major Works (Working Expenses)—Imperial ...	13,70,000
43.	Minor Works and Navigation—	
	Provincial	28,95,000
	Incorporated Local	9,000
49.	Capital Expenditure not charged to Revenue—Imperial ...	9,50,000

IMPERIAL.

2. The distribution of the grants under "35. Protective Works, Irrigation" and "42. Major works (Working expenses)" shown in the preliminary budget has been adhered to.

3. In his letter, No. 39 E.I./C., dated 26th March 1897, the Superintending Engineer, V Circle, requested that the preliminary grant of Rs. 17,500 provided under "42. Maintenance and repairs" for the Negapatam division may be increased by Rs. 10,000 for expenditure on the following works:—

	RS.
Harichendranadi, Palavar channel: Clearing bed of—	4,000
Marakakarayar channel: Clearing the—	6,000

He represented that the Executive Engineer taking advantage of the present working season, has put the works in hand in anticipation of an allotment of funds. In memo., No. 4 V., dated 1st April 1897, the Superintending Engineer was informed that his demand cannot be complied with in the absence of a reserve, and his attention was drawn to Proceedings of Madras Government, No. 180 I., dated 22nd February 1897, in view to expenditure being restricted to the sanctioned grant.

4. For carrying out the works connected with the Opar odai dam of the Srívaikuntam anicut system which was breached last year, the Superintending Engineer, VI Circle, requested, in his endorsement, No. 334 T.N., dated 7th April 1897, that an additional grant of Rs. 5,000 under "42" and of a similar amount under "49" may

be provided. In memo. No. 20 T.N., dated 10th April 1897, it was intimated to him that, pending the sanction of the estimates stated to be under preparation, no funds can be provided for the works. The work being urgent, has been put in hand.

5. Under "49. Capital Expenditure not charged to Revenue," the amount provided in the preliminary budget for the Cauvery delta system for *works* outlay amounted to Rs. 1,16,354. Of this amount Rs. 29,553 have been allotted to the works included in the schedule forwarded by the Superintending Engineer, V Circle, with his letter, No. 40 E.I./C., dated 26th March 1897, and the balance, Rs. 86,801, has been provided for fitting lift shutters to the Grand anicut for which an estimate, amounting to Rs. 1,29,200, was submitted for the sanction of the Government of India in Proceedings of Madras Government, No. 155 I., dated 13th February 1897. The lakh of rupees originally provided for the Kalingaroyen channel improvements is not now required for that system, the Government of India having declined to extend the term of sanction to the project in its letter, No. 41 I., dated the 5th February 1897, printed in Proceedings of Madras Government, No. 219 I., dated 3rd March 1897, pending the receipt of a further explanation. Half of this amount has, therefore, been diverted to the Cauvery delta system for commencing the improvements to the Coleroon upper anicut for which an estimate of Rs. 6,57,000 was submitted for the sanction of the Government of India in Proceedings of Madras Government, No. 299 I., dated 22nd March 1897.

6. In Proceedings of Madras Government, No. 68 I., dated 20th January 1897, the grant proposed for the Gódávari Delta system having been reduced from Rs. 1,63,000 to Rs. 5,000 owing to the curtailment by the Government of India of the amount applied for in the schedule of demands, the Superintending Engineer, I Circle, in his letter, No. 2436 G.D., dated 18th February 1897, reported that the reduced amount was not at all sufficient for the works in this delta. Rs. 50,000 at least were represented to be required for providing falling shutters for the Gódávari anicut, in the Gódávari Eastern division, and Rs. 20,000 for works in the other two divisions. In memo., No. 35 G.D., dated 6th March 1897, he was instructed to expedite the submission, for the sanction of Government, of the estimates for the works intended to be carried out during the year, and it was also intimated to him that when those estimates were duly sanctioned, arrangements will be made to provide the funds required for expenditure on them either by re-appropriation from the grants for other systems or by an application to the Government of India for an additional assignment. A grant of Rs. 50,000 is now provided by transfer from the provision formerly made for the Kalingaroyan channel.

PROVINCIAL.

7. In the preliminary budget Rs. 16,174 were provided for works of the Palar anicut system on Capital account. As the schedule forwarded by the Superintending Engineer, IV Circle, with his letter No. 60/I., dated 3rd April 1897, works up to Rs. 13,061 only, the balance of Rs. 3,113 not required for this system has been held in reserve, together with the sum of Rs. 2,590 originally allotted for repairing and improving the Athalai tank in the Madura division. This bank having been included in the list of tanks proposed to be maintained under the Periyár project, any expenditure on it will have to be met from Imperial funds with reference to G.O., No. 176 I., dated 20th February 1897.

8. In his letter No. 3718 K.W. of the 23rd March 1897, the Superintending Engineer, II Circle, reported the necessity for an additional allotment of Rs. 50,000 for the Kistna Western division under Agricultural works, an estimate amounting to Rs. 68,800 for raising and strengthening the right bank of the Kistna river from head to 13 miles having already been sanctioned by him and another estimate for larger amount for the lower portion of the bank being under preparation. In memo., No. 55 K.S., dated 30th March 1897, he was informed that the Government of India having reduced the preliminary grant under this head by Rs. 1·55 lakh (*vide* Proceedings of Madras Government, No. 316 I., dated 25th March 1897), there were no funds available to meet his demand and that the amount absolutely required for expenditure on embankments should be provided by re-appropriations of the grants

provided for his circle. In compliance with his telegram of the 8th instant, the preliminary grant for the Buckingham Canal under Capital account has been reduced by Rs. 12,450, inclusive of the percentage charge for establishment and tools and plant, the proposed grant for the Kistna Northern division under repairs to Agricultural works being augmented by that extent.

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

20th April 1897.

Order—No. 392 I., dated 23rd April 1897.

The final issue of the Irrigation budget estimates for 1897-98, as drawn up by the Chief Engineer for Irrigation, is approved, and 50 * printed copies thereof will be forwarded to the Government of India.

* Fifteen copies to Simla and the remainder to Calcutta.

[Here enter No. 393 I., dated 23rd April 1897.]

(True Extract.)

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

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

Exd. T. K. Narayana Aiyangar.

IMPERIAL—MAJOR WORKS. MADRAS PRESIDENCY.

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION-MAJOR WORKS

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1897-98.

Madras,
23rd April 1897.

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

CONTENTS

	PAGE
BUDGET ESTIMATE OF REVENUE	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	6
DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
PART I.—Arranged by Projects	7
„ II.—Detail of Estimate for Original Works	8
„ III.—Detail of Estimate for Maintenance and Repairs	31
„ IV.—Detail of the Budget Estimate for Establishment	36
„ IV-A.—Detail of the provision for Establishment by Systems of Canals	38
„ V.—Detail of Estimate for Tools and Plant	39
„ VI.—Detail of Estimate of Suspense Balances	42

GOVERNMENT OF MADRAS.

REVENUE.

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

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

GOVERNMENT OF MADRAS.

REVENUE.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Gódávari Delta—				
Irrigation Revenue	24,47,457	28,80,000	25,29,000	28,29,000
Deduct Revenue due to old Irrigation	1,24,000	1,24,000	1,24,000	1,24,000
Revenue due to the System	23,23,457	27,56,000	24,05,000	27,05,000
Share of enhanced Land Revenue	1,47,726	1,70,000	1,54,400	1,54,400
Total ...	24,71,183	29,26,000	25,59,400	28,59,400
Deduct Collection Charges in the Civil Department	1,23,559	1,46,300	1,28,400	1,43,400
Net Revenue ...	23,47,624	27,79,700	24,31,000	27,16,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	849	1,300	1,000	1,000
Total ...	23,48,473	27,81,000	24,32,000	27,17,000
Kistna Delta—				
Irrigation Revenue	20,92,295	24,30,000	25,10,000	25,85,000
Deduct Revenue due to old Irrigation	71,000	71,000	71,000	71,000
Revenue due to the System	20,21,295	23,59,000	24,39,000	25,14,000
Share of enhanced Land Revenue	1,40,888	1,80,000	1,90,000	2,00,000
Total ...	21,62,183	25,39,000	26,29,000	27,14,000
Deduct Collection Charges in the Civil Department	1,08,389	1,27,000	1,31,000	1,36,000
Net Revenue ...	20,53,794	24,12,000	24,98,000	25,78,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	5,607	10,000	10,000	10,000
Total ...	20,59,401	24,22,000	25,08,000	25,88,000
Pennéru Anicut—				
Irrigation Revenue	2,63,848	2,63,000	2,64,000	2,64,000
Deduct Revenue due to old Irrigation	1,17,000	1,17,000	1,17,000	1,17,000
Revenue due to the System	1,46,848	1,46,000	1,47,000	1,47,000
Share of enhanced Land Revenue	20,509	20,000	21,000	21,000
Total ...	1,67,357	1,66,000	1,68,000	1,68,000
Deduct Collection Charges in the Civil Department	8,368	8,300	8,400	8,400
Net Revenue ...	1,58,989	1,57,700	1,59,600	1,59,600
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	522	300	400	400
Total ...	1,59,511	1,58,000	1,60,000	1,60,000

GOVERNMENT OF MADRAS.

REVENUE—continued.

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

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

GOVERNMENT OF MADRAS.

REVENUE—continued.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION—*continued.*				
XXIX. MAJOR WORKS—PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Barur Tank—				
Irrigation Revenue	11,022	14,000	12,000	14,000
Deduct Revenue due to old Irrigation	2,000	2,000	2,000	2,000
Revenue due to the System	9,022	12,000	10,000	12,000
Share of enhanced Land Revenue	30	...	...	...
Total ...	9,052	12,000	10,000	12,000
Deduct Collection Charges in the Civil Department	453	1,000	1,000	1,000
Net Revenue ...	8,599	11,000	9,000	11,000
Kurnool-Cuddapah Canal—				
Share of enhanced Land Revenue under tanks owing to supply of canal water	4,956	8,400	6,300	6,300
Deduct Collection Charges in the Civil Department	248	400	300	300
Net Revenue ...	4,708	8,000	6,000	6,000
Rushikulya Project—				
Irrigation Revenue	63,535	1,00,000	90,000	1,10,000
Deduct Revenue due to old Irrigation	25,816	30,000	30,000	33,000
Revenue due to the System	37,719	70,000	60,000	77,000
Share of enhanced Land Revenue	32	150	150	200
Total ...	37,751	70,150	60,150	77,200
Deduct Collection Charges in the Civil Department	1,887	3,950	2,950	4,200
Net Revenue ...	35,864	66,200	57,200	73,000
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	...	800	800	1,000
Total ...	35,864	67,000	58,000	74,000
Total—				
Irrigation Revenue	97,77,955	1,04,23,000	1,01,01,000	1,05,50,000
Deduct Revenue due to old Irrigation	41,01,927	38,79,000	39,18,000	39,62,900
Revenue due to the System	56,76,028	65,44,000	61,83,000	65,87,100
Share of enhanced Land Revenue	4,42,758	5,19,550	5,00,800	5,12,400
Total ...	61,18,786	70,63,550	66,83,800	70,99,500
Deduct Collection Charges in the Civil Department	3,06,219	3,53,950	3,34,300	3,55,600
Net Revenue ...	58,12,567	67,09,600	63,49,500	67,43,900
Four per cent. on sale-proceeds of tank-bed and other waste lands less 5 per cent. for collection charges	13,255	18,400	18,500	19,100
Total ...	58,25,822	67,28,000	63,68,000	67,63,000

GOVERNMENT OF MADRAS.

CHARGES.

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

	Reference to Detailed Estimate.	Actual Outlay, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
	PAGES.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.					
MAJOR (PROTECTIVE) WORKS.					
Famine Relief and Insurance.					
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.					
1. Works ... ... In progress ... Rs. 1,33,618; Not commenced. 5,000	8 & 9	1,92,432	1,53,646	1,66,910	1,38,618
2. Establishment	38	38,392	33,039	36,090	30,732
3. Tools and plant	39	— 3,595	2,315	...	150
5. Receipts on capital account		— 752	...	...	...
Total ...		2,26,477	1,89,000	2,03,000	1,69,500
42. (WORKING EXPENSES).					
1. Extensions and improvements. In progress ... ...; Not commenced ... Rs. 69,481	8 to 11	65,124	57,712	57,578	69,481
2. Maintenance and repairs	31 to 35	6,29,765	5,71,224	8,42,254	6,38,183
3. Establishment	38	5,14,080	5,56,121	5,88,963	5,68,610
4. Tools and plant	39 to 41	1,06,914	94,943	1,00,205	93,726
5. Refunds of revenue		220	...	...	...
Total, Working Expenses ...		13,16,103	12,80,000	15,89,000	13,70,000
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.					
49. IRRIGATION.					
1. Works ... ... In progress ... Rs. 2,98,812; Not commenced ... 4,33,731	10 to 30	10,64,874	7,46,752	6,71,086	7,32,543
2. Establishment	38	2,37,963	1,62,518	1,43,882	1,59,357
3. Tools and plant	41	36,915	31,730	— 28,968	58,100
5. Receipts on capital account		— 2,389	...	...	...
Total, Capital Expenditure ...		13,37,363	9,41,000	7,86,000	9,50,000

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

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

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895-96.	Budget Estimate, 1896-97.	Probable Outlay during 1896-97 (Revised Estimate).	Budget Estimate, 1897-98.	Remarks and References.
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
MAJOR (PROTECTIVE) WORKS.						
Famine Relief and Insurance.						
35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
Capital Account.						
Rushikulya Project	43,68,000	39,07,154	1,89,000	2,03,000	1,69,500	Government of India register No. 7 I. of 1894-95. Proceedings of Madras Govt. No. 846 I. of 7th November 1894.
42. MAJOR WORKS (WORKING EXPENSES).						
Gódávari Delta	...	...	5,30,000	5,12,260	4,80,000	
Kistna do.	...	...	5,26,000	7,41,020	5,75,000	
Pennéru Anicut	...	...	19,000	16,680	20,000	
Sangam do.	...	...	43,000	39,830	37,000	
Kurnool-Cuddapah Canal ...	...	...	86,000	86,837	94,200	
Barur Tank Project	...	...	3,800	3,680	2,500	
Cauvery Delta	...	...	18,200	48,294	25,000	
Srívaikuntam Anicut ...	...	...	24,000	68,300	27,000	
Periyár Project	...	...	...	40,000	71,000	
Rushikulya Project	...	...	30,000	32,099	38,300	
Total ...	...	...	12,80,000	15,89,000	13,70,000	
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
49. IRRIGATION.						
Works in Progress.						
Gódávari Delta System ...	1,13,84,155	1,09,32,065	84,000	80,204	55,000	P.M.G., No. 876 I., dated 24th October 1896, No. 464 I., dated 29th May 1896, No. 507 I., dated 12th June 1896, No. 618 I., dated 29th July 1896, No. 649 I., dated 5th August 1896, No. 7 I., dated 4th January 1897, and No. 14 I., dated 5th January 1897.
Kistna Delta do. ...	1,39,19,784	1,13,76,820	5,75,000	5,95,042	4,50,000	Government of India register No. 8 I. of 1884-85. P.M.G., No. 862 I., dated 22nd Sept. 1894. Government of India letter No. 10 I. of 22nd Jan. 1889, P.M.G., No. 62 I. of 11th Feb. 1889, No. 857 I. of 11th Oct. 1893, and No. 34 I. of 17th Jan. 1894.
Cauvery Delta	17,80,101	16,87,283	76,100	46,448	1,93,000	P.M.G., No. 876 I., dated 24th October 1896, No. 473 I., dated 4th June 1896, No. 514 I., dated 16th June 1896, No. 663 I., dated 11th August 1896, No. 667 I., dated 11th August 1896, No. 919 I., dated 3rd November 1896, No. 937 I., dated 10th November 1896, No. 1086 I., dated 23rd December 1896, and No. 77 I., dated 20th January 1897.
Srívaikuntam Anicut ...	13,77,561	13,61,847	13,100	1,415	2,000	P.M.G., No. 876 I., dated 24th October 1896, and No. 852 I., dated 22nd October 1896.
Periyár Projeet	84,71,000	80,85,047	1,63,100	33,160	2,50,000	Government of India register No. 10 I. of 1894-95. P.M.G., No. 1057 I., dated 22nd December 1894.
Total ...	...	...	...	...	9,50,000	

GOVERNMENT

OF MADRAS.

CHARG

ES.

Part

II.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897–98.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895–96.	Outlay: Probable during 1896–97.	Grant for 1897–98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				IMPERIAL.						
				MAJOR (PROTECTIVE) WORKS.						
				Famine Relief and Insurance.						
				35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
				Capital Account.						
				RUSHIKULYA PROJECT.						
				(1) HEAD WORKS.						
				Rushikulya Section.						
Ganjám ...	...	3. Works ...	1	Suradá reservoir dam	2,75,000	2,11,853	24,000	30,000	1	Government of India Register No. 7 I. of 1894–95. P.M.G., No. 846 I. of 7th November 1894.
			2	Channel to take Pathama river into Suradá reservoir.	41,160	21,158	9,000	10,000	2	
			3	Waste weir channel, Suradá reservoir	21,800	11,380	5,000	5,000	3	
				(3) Distributaries.						
			4	Irrigation sluices	16,148	...	1,19,946	2,000	4	
			5	Masonry works	61,602			18,000	5	
			6	Irrigation channels	1,50,000			58,618	6	
				Mahánadi Section.						
				(1) Head Works.						
		2. Land ...	7	Compensation for land, Russellkonda reservoir dam.	47,220	...	...	5,000	7	
		3. Works ...	8	Russellkonda reservoir dam	4,73,560	4,30,738	4,000	10,000	8	
				Total, Rushikulya Project ...	...	...	...	1,38,618		
				IRRIGATION.						
				42. MAJOR WORKS (WORKING EXPENSES).						
				EXTENSIONS AND IMPROVEMENTS.						
				Gódávari Delta System.						
Gódávari Eastern Division.	...	.....	9	Extensions and improvements	...	...	3,500	8,000	9	
Gódávari Central.	...	.....	10	Do. do.	...	...	4,000	3,000	10	
Gódávari Western Division.	...	.....	11	Do. do.	...	...	7,000	10,000	11	
				Total ...	...		14,500	21,000		

GOVERNMENT

OF MADRAS.

CHARG

ES.

Part

II.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897–98.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895–96.	Outlay: Probable during 1896–97.	Grant for 1897–98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				IMPERIAL.						
				MAJOR (PROTECTIVE) WORKS.						
				Famine Relief and Insurance.						
				35. CONSTRUCTION OF PROTECTIVE IRRIGATION WORKS.						
				Capital Account.						
				RUSHIKULYA PROJECT.						
				(1) HEAD WORKS.						
				Rushikulya Section.						
Ganjám ...	...	3. Works ...	1	Suradá reservoir dam	2,75,000	2,11,853	24,000	30,000	1	Government of India Register No. 7 I. of 1894–95. P.M.G., No. 846 I. of 7th November 1894.
			2	Channel to take Pathama river into Suradá reservoir.	41,160	21,158	9,000	10,000	2	
			3	Waste weir channel, Suradá reservoir	21,800	11,380	5,000	5,000	3	
				(3) Distributaries.						
			4	Irrigation sluices	16,148	...	1,19,946	2,000	4	
			5	Masonry works	61,602			18,000	5	
			6	Irrigation channels	1,50,000			58,618	6	
				Mahánadi Section.						
				(1) Head Works.						
		2. Land ...	7	Compensation for land, Russellkonda reservoir dam.	47,220	...	...	5,000	7	
		3. Works ...	8	Russellkonda reservoir dam	4,73,560	4,30,738	4,000	10,000	8	
				Total, Rushikulya Project ...	...	...	...	1,38,618		
				IRRIGATION.						
				42. MAJOR WORKS (WORKING EXPENSES).						
				EXTENSIONS AND IMPROVEMENTS.						
				Gódávari Delta System.						
Gódávari Eastern Division.	...	.....	9	Extensions and improvements	...	...	3,500	8,000	9	
Gódávari Central.	...	.....	10	Do. do.	...	...	4,000	3,000	10	
Gódávari Western Division.	...	.....	11	Do. do.	...	...	7,000	10,000	11	
				Total ...	...		14,500	21,000		

GOVERNMENT OF MADRAS.

CHARGES—cont.

Part II—cont.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				EXTENSIONS AND IMPROVEMENTS—*cont.*						
				Kistna Delta System.						
Kistna Eastern ...	...	.....	12	Extensions and improvements	...	...	10,640	16,000	12	
Do. Northern.	...	.....	12A	Do. do.	...	...	360	...	12A	
Do. Western.	...	.....	13	Do. do.	...	...	3,000	3,000	13	
				Total ...	...	...	14,000	19,000		
				Pennéru Anicut System.						
Nellore ...	...	.....	14	Extensions and improvements	...	...	3,500	2,431	14	
				Deduct old maintenance charges	...	...	* 3,564	* 3,564		
				Net grant ...	...	...	— 64	— 1,103		
				Sangam Anicut System.						
Nellore ...	...	.....	15	Extensions and improvements	...	...	4,365	3,975	15	
				Deduct old maintenance charges	...	...	* 345	* 345		
				Net grant ...	...	...	4,020	3,630		
				Kurnool-Cuddapah Canal.						
Kurnool ...	...	.....	16	Extensions and improvements	...	...	6,000	8,000	16	
				Cauvery Delta System.						
Tanjore ...	...	.....	17	Extensions and improvements	...	...	14,750	12,000	17	
Negapatam ...	...	.....	18	Do. do.	...	...	2,854	4,000	18	
Trichinopoly ...	...	.....	19	Do. do.	...	...	350	1,000	19	
				Total ...	...	...	17,954	17,000		
				Srivaikuntam Anicut System.						
Tinnevelly ...	...	.....	20	Extensions and improvements	...	...	516	2,306	20	
				Deduct old maintenance charges	...	...	* 352	* 352		
				Net grant ...	...	...	164	1,954		
				Total, Extensions and Improvements ...	...	...	...	69,481		
				CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.						
				49. IRRIGATION.						
				GODAVARI DELTA SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				Eastern Section.						
				(3) Distributaries.						
				Cocanada Canal.						
Gódávari Eastern.	...	3. Works ...	21	Murumanda channel	1,380	...	700	680	21	P.M.G., No. 507 I., dated 12th June 1896.
				Total, Eastern Section ...	...	...	...	680		

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897-98.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				OPEN CAPITAL ACCOUNT—*cont.*						
				Central Section.						
				(2) Main Canals and Branches.						
				Bank Canal.						
Gódávari Central.	...	2. Land	22	Compensation for land and trees for diversion of Bank canal at Gedhelanka set.	850	...	230	620	22	P.M.G., No. 14 I., dated 5th January 1897.
				Bendamurlanka Canal.						
		Do.	23	Compensation for land and trees for diversion of Bendamurlanka canal (Kowsika channel) at Godi.	2,426	...	737	1,689	23	,, ,, 7 I. ,, 4th ,, ,,
				(4) Drainages and Protective Works.						
		Do.	24	Compensation for land taken up for improvements to Pelivela drain.	...	...	...	378	24	Estimate under preparation.
				Total, Central Section ...	...	...	...	2,687		
				Western Section.						
				(2) Main Canals and Branches.						
				Main Canal.						
Gódávari Western.	...	11. Buildings ...	25	Constructing a rest-house with out-buildings at Chettipett.	5,620	...	...	...		
				Deduct amount written back to Revenue Account —*vide* G.O., No. 237 I., dated 7th March 1896.	2,900	...	1,680	1,040	25	P.M.G., No. 811 I., dated 8th October 1896.
					2,720					
				(3) Distributaries.						
				Bank Canal.						
		4. Earthwork ...	26	Excavating Pedamallam channel	1,510	...	1,350	160	26	,, ,, 618 I. ,, 29th July 1896.
				Total, Western Section ...	...	...	...	1,200		
.....	...	.....	26-A	Reserve	...	...	...	40,651	26-A	
				Total, Gódávari Delta System ...	...	...	...	45,218		
				KISTNA DELTA SYSTEM.						
				MAJOR WORKS.						
				Works in Progress.						
				(1) Head Works.						
Kistna Northern.	Bezwada ...	3. Works ...	27	Raising the apron of the Kistna anicut ...	...	...	...	20,000	27	The execution of the work has been approved—*vide* G.O., No. 592/A I., dated 16th July 1896. Estimate will be sent.
				Western Section.						
				Western Delta Main Canal.						
				(2) Main Canals and Branches.						
Kistna Western.	Seetanagram.	3. Regulators ...	28	Constructing head-sluice	88,000	45,881	33,700	8,400	28	G.O., No. 112 I., dated 3rd February 1896.
				Eastern Section.						
				Ellore Canal.						
				(4) Drainage and Protective Works.						
Kistna Eastern ...	...	4. Earthwork ...	29	Excavating Pedapad escape drain	4,665	...	...	4,665	29	,, ,, 695 I. ,, 17th August 1896.

GOVERNMENT

OF MADRAS.

CHARG

ES—cont.

Part

II—cont.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Major Works—cont.						
				Pedalanka Channel.						
				(3) Distributaries.						
Kistna Eastern —*cont.*	...	4. Earthwork ...	30	Improvements to Sanarudravaram channel ...	2,900	...	2,200	700	30	G.O., No. 467 I., dated 20th June 1894.
		5. Miscellaneous.	31	Constructing pipe sluices along Pedalanka channel.	7,500	2,632	1,868	3,000	31	" " " " " " " "
		4. Earthwork ...	32	Improving Nandiraz codu	3,100	...	...	3,100	32	" " " " " " " "
				Bantumilli Canal.						
				(3) Distributaries.						
		5. Miscellaneous.	33	Constructing seven ramps for the extension ...	2,720	1,157	500	1,000	33	G.O., No. 521 I., dated 10th July 1894.
				Masulipatam Canal.						
				(2) Main Canals and Branches.						
		12. Earthwork ...	34	Widening Masulipatam canal, 1st reach ...	23,700	...	17,000	6,700	34	G.O., No. 359 I., dated 24th April 1896.
		Do. ...	35	Do. do. do. 2nd " ...	15,750	...	...	15,750	35	" " 496 I. " 12th June "
				Total, Major Works ...	...	...	...	34,915		
				Minor Works estimated to cost Rs. 2,500 *each and under.*						
				Ellore Canal.						
				(2) Main Canals and Branches.						
		6. Other cross drainage works.	36	Minor works	12,980	...	6,980	6,000	36	
				(3) Distributaries.						
		3. Works ...	37	Minor works	1,520	563	150	807	37	
		4. Earthwork ...	38	Do.	3,490	500	758	2,232	38	
		5. Miscellaneous.	39	Do.	645	187	23	435	39	
				Ryves' Canal.						
				(3) Distributaries.						
		3. Works ...	40	Minor works	2,000	...	1,000	1,000	40	
		5. Miscellaneous.	41	Do.	800	216	...	584	41	
				Pulleru Canal.						
				(3) Distributaries.						
		3. Works ...	42	Minor works	3,210	86	250	2,874	42	
		4. Earthwork ...	43	Do.	3,410	1,026	800	1,593	43	
		5. Miscellaneous.	44	Do.	1,400	...	400	1,000	44	
				Pedalanka Channel.						
				(3) Distributaries.						
		3. Works ...	45	Minor works	130	...	50	80	45	
		4. Earthwork ...	46	Do.	3,735	...	500	3,235	46	
		5. Miscellaneous.	47	Do.	1,615	254	200	1,161	47	

Details of the Budget Estimate for Original Works under Irrigation Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Minor Works—cont.						
				Bantumilli Canal.						
				(3) Distributaries.						
Kistna Eastern —*cont.*	...	5. Miscellaneous...	48	Minor works	3,183	1,204	420	1,559	48	
				Masulipatam Canal.						
				(3) Distributaries.						
		3. Works ...	49	Minor works	15,775	..	700	15,000	49	
		4. Earthwork ...	50	Do.	11,460	...	1,460	10,000	50	
		5. Miscellaneous.	51	Do.	1,285	...	500	785	51	
				Total, Minor Works ...	...	...	...	48,345		
		2. Land ...	52	Land compensation	...	...	...	20,000	52	
				Grand Total, Kistna Eastern Division ...	...	...	...	1,03,260		
				Western Section.						
				Works in Progress.						
				Main Canal.						
				(2) Main Canals and Branches.						
Kistna Western...	...	2. Land ...	53	Compensation for land for widening Western Delta main canal	4,080	2,052	...	500	53	
				Bank Canal.						
		2. Land ...	54	Compensation for land required for improvements to Bank canal.	6,000	3,016	...	500	54	
		12. Earthwork ...	55	Improvements to Bank canal	1,13,715	75,537	2,000	3,000	55	
				(3) Distributaries.						
		4. Earthwork ...	56	Improvements to Iskapalli channel	11,400	6,008	3,600	1,800	56	
		Do. ...	57	Excavating Varahapuram channel	9,680	2,127	4,600	2,900	57	
		Do. ...	58	Do. Ullipalem Branch channel ...	3,710	4	1,300	2,400	58	
		Do. ...	59	Do. Allaparru do.	5,860	...	3,700	2,160	59	
				(4) Drainage and Protective Works.						
		3. Works ...	60	Aqueduct to carry Vellatur channel across Répalle main drain straight cut.	14,200	4,732	7,500	2,000	60	
		4. Earthwork ...	61	Excavating the proposed straight cut on Répalle main drain.	39,760	6,686	15,000	15,000	61	
		Do. ...	62	Excavating Allaparru drain	5,100	6	1,000	4,000	62	
		Do. ...	63	Do. Kuchinapudi drain	3,700	...	3,000	700	63	
				Nizampatam Canal.						
				(4) Drainage and Protective Works.						
		2. Land ...	64	Compensation for land for Tenali drain ...	12,150	3,302	...	1,000	64	
		5. Miscellaneous.	65	Fixing B.M. stones on Tenali drain	2,892	1,626	500	700	65	

GOVERNMENT OF MADRAS.

CHARGES—cont.

Part II—cont.

Details of the Budget Estimate for Original Works under Irrigation Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				WESTERN SECTION—*cont.*						
				Works in Progress—cont.						
				Commamúr Canal.						
				(2) Main Canals and Branches.						
Kistna Western —*cont.*	...	2. Land	66	Compensation for land for improvements to Commamúr canal.	16,068	14,059	...	300	66	
		12. Earthwork ...	67	Improvements to Commamúr canal	2,45,330	2,14,904	1,000	2,000	67	
				(4) Drainage and Protective Works.						
		3. Works ...	68	Constructing an under tunnel at 8 miles 1½ furlongs of Commamúr canal.	37,000	34,608	1,500	1,000	68	
		4. Earthwork ...	69	Excavating Tungabhadra drain	2,01,111	1,67,182	30,000	10,000	69	Revised estimate will be submitted.
		Do. ...	70	Excavating Nallamada drain	1,32,065	98,856	...	5,000	70	
				Total, Works in Progress ...	...	...	...	54,960		
				Works not Commenced.						
				Main Canal.						
				(2) Main Canals and Branches.						
		15. Miscellaneous...	71	Constructing cattle-crossing at Tadepalli, 1 mile 4 furlongs.	4,180	...	3,500	680	71	G.O., No. 366 I., dated 13th April 1897.
		Do. ...	72	Constructing cattle-crossing at Kunchanapalli, 3 miles 1 furlong.	4,010	...	3,000	1,010	72	
		Do. ...	73	Constructing cattle-crossing at Vadheswaram, 3 miles 6 furlongs.	4,500	...	3,500	1,000	73	
		Do. ...	74	Constructing cattle-crossing at Mallempudi, 5 miles 1 furlong.	3,700	...	3,000	700	74	
		Do. ...	75	Constructing cattle-crossing at Revendrapad, 7 miles 4 furlongs.	3,940	...	3,000	940	75	
		Do. ...	76	Constructing cattle-crossing at Tummapudi, 9 miles 1 furlong.	3,890	...	2,000	1,890	76	
		Do. ...	77	Constructing cattle-crossing at Morampudi, 10 miles 6 furlongs.	3,470	...	2,000	1,470	77	
				Bank Canal.						
				(2) Main Canals and Branches.						
		3. Regulators ...	78	Improving head-sluice channel of Bank canal ...	6,600	...	...	6,000	78	G.O., No. 813 I., dated 9th October 1896.
				(3) Distributaries.						
		2. Land	79	Compensation for land for excavating Varahapuram channel.	12,000	...	1,000	5,000	79	
		3. Works ...	80	Bridge about 5 miles to carry Vellatúr-Thanddle road.	...	...	...	4,000	80	Estimates under preparation.
		4. Earthwork ...	81	Vellatúr channel	...	...	...	10,000	81	
				(4) Drainage and Protective Works.						
		2. Land	82	Compensation for land required for Répalle main drain straight cut.	12,400	...	1,000	5,000	82	
		3. Works ...	83	Constructing an iron girder bridge over Répalle main drain to carry the Nandivelugu-Iyalur road at 9 miles.	10,000	...	...	5,000	83	
		5. Miscellaneous...	84	Three cattle-crossings on Répalle main drain ...	6,000	...	2,000	4,000	84	

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
				Works not Commenced—cont.	Rs.	Rs.	Rs.	Rs.		
				Nizampatam Canal.						
				(2) Main Canals and Branches.						
Kistna Western —*cont.*	...	9. Navigation ...	85	Constructing a wharf wall at Tenali, 6 miles of Nizampatam canal.	2,910	...	...	2,000	85	G.O., No. 819 I., dated 9th October 1896.
				(4) Drainage and Protective Works.						
		4. Earthwork ...	86	Improving Pedapalli drain, 25 miles of Nizampatam canal.	13,800	...	2,000	5,000	86	,, ,, 883 I., ,, 27th ,, ,,
				Commamúr Canal.						
				(3) Distributaries.						
		3. Works ...	87	Constructing an iron trough aqueduct over drainage channel of Bápatla tank to carry Mulapalem Branch channel.	3,217	...	1,000	2,000	87	,, ,, 166 I., ,, 16th February 1897.
		Do. ...	88	Combined bridge and aqueduct, 1 mile 7½ furlongs from head of Doppalapudi affluent.	...	...	1,500	10,000	88	Estimate under preparation.
		4. Earthwork ...	89	Excavating East Branch channel of Bápatla tank.	7,400	...	2,000	5,400	89	G.O., No. 166 I., dated 16th February 1897.
		Do. ...	90	Do. West do. do.	3,900	...	...	3,900	90	
				(4) Drainage and Protective Works.						
		3. Works ...	91	Iron girder bridge over Perali drain on coast road.	20,000	...	...	5,000	91	
		4. Earthwork ...	92	Excavating Perali drain	84,940	...	10,000	20,000	92	
		3. Works ...	93	Extending the bridge at 7 miles 15 chains of Nallamada drain.	25,000	...	7,000	10,816	93	
				Total, Works not Commenced ...	...	...	...	1,10,806		
				MINOR WORKS COSTING Rs. 2,500 AND UNDER.						
				Main Canal.						
				(3) Distributaries.						
		2. Land	94	Compensation for land required for extending and improving No. 1 branch of Imani channel.	300	...	...	200	94	
		5. Miscellaneous...	95	Fixing demarcation stones along the distributaries of Main canal.	770	224	100	350	95	
				Bank Canal.						
				(2) Main Canals and Branches.						
		9. Navigation ...	96	Constructing sheds for lock superintendent and four lascars at Vellatur lock.	2,340	8	700	1,600	96	
		15. Miscellaneous...	97	Constructing wooden fender pile foot-bridge in front of head sluice, Bank canal.	1,220	661	...	560	97	
				(3) Distributaries.						
		2. Land ...	98	Compensation for land for Iskapalli channel ...	1,000	171	...	300	98	
		Do. ...	99	Do. do. for Aravapalli channel ...	1,500	...	...	500	99	
		Do. ...	100	Do. do. for Potumeraka channel...	1,905	1,798	...	100	100	
		Do. ...	101	Do. do. for Ullipalem Branch channel.	600	...	...	200	101	
		Do. ...	102	Do. do. for Allaparru branch channel.	800	...	...	200	102	

GOVERNMENT OF MADRAS.

CHARGES—cont.

Part II—cont.

Details of the Budget Estimate for Original Works under Irrigation Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
				Bank Canal—*cont.*	Rs.	Rs.	Rs.	Rs.		
				(3) Distributaries—*cont.*						
Kistna Western —*cont.*	...	2. Land ...	103	Compensation for land for Kuchenapudi Branch channel.	350	...	...	200	103	
		Do. ...	104	Compensation for land for diversion of Razu channel at 573′ from head of proposed surplus channel at 45 miles 6 furlongs of bank canal.	840	...	...	300	104	
		Do. ...	105	Compensation for land for proposed surplus channel at 45 miles 6 furlongs of Bank canal.	370	...	...	200	105	
		Do. ...	106	Compensation for land for proposed surplus channel at 44 miles 4½ furlongs, Bank canal.	420	...	...	200	106	
		Do. ...	107	Compensation for land for Venkannah's channel.	260	...	...	100	107	
		Do. ...	108	Compensation for land for proposed channel at 45 miles 2 furlongs and 310 feet of Bank canal.	330	...	...	100	108	
		3. Works ...	109	Constructing an under-tunnel at 0/4 mile of Varahapuram channel.	1,105	...	...	1,000	109	
		Do. ...	110	Tail escape and bridge to Varahapuram channel.	1,200	...	500	700	110	
		Do. ...	111	Earthenware pipe sluices to Varahapuram channel.	1,000	...	500	500	111	
		Do. ...	112	Sluice at 3 miles 2 furlongs of Iskapalli channel.	470	131	200	100	112	
		Do. ...	113	Sluice at 4 miles 2½ furlongs of Iskapalli channel.	480	2	300	200	113	
		Do. ...	114	Small bridge at 5 miles 6½ furlongs of Iskapalli channel.	1,680	391	1,000	250	114	
		Do. ...	115	Sluice at 6 miles 0 furlong of Iskapalli channel.	480	2	300	150	115	
		Do. ...	116	Small bridge at 7 miles 3 furlongs and 230 feet of Iskapalli channel.	1,650	319	1,000	300	116	
		Do. ...	117	Sluice at 7 miles 4 furlongs on right bank of Iskapalli channel.	480	1	300	150	117	
		Do. ...	118	Do. on left bank do.	480	...	300	180	118	
		Do. ...	119	Small bridge at 8 miles 5 furlongs and 230 feet of Iskapalli channel.	1,530	190	1,000	300	119	
		Do. ...	120	Sluice at 8/4 miles on right bank of Iskapalli channel.	490	...	300	190	120	
		Do. ...	121	Do. left bank do.	490	...	300	190	121	
		Do. ...	122	Drop at 3 miles 4 furlongs of Aravapalli channel.	440	...	300	140	122	
		Do. ...	123	Tail escape to Aravapalli channel	220	...	150	100	123	
		Do. ...	124	Do. Allaparru Branch channel ...	230	...	100	130	124	
		Do. ...	125	Do. Ullipalem Branch channel ...	240	...	100	140	125	
		Do. ...	126	Do. Kuchinapudi Branch channel ...	210	...	100	110	126	
		Do. ...	127	Two additional sluices to Iskapalli channel ...	...	...	800	300	127	
		4. Earthwork ...	128	Excavating Aravapalli Branch channel ...	2,360	5	1,250	1,100	128	
		Do. ...	129	Do. Kuchinapudi Branch channel ...	1,840	281	1,150	400	129	
		Do. ...	130	Do. surplus channel at 45 miles 6 furlongs of Bank canal.	910	...	600	310	130	
		Do. ...	131	Excavating a channel at 44 miles 4 furlongs and 330 feet of Bank canal.	870	...	400	470	131	
		Do. ...	132	Excavating Venkannah's channel at 44 miles 0 furlong and 330 feet of Bank canal.	1,160	...	...	1,000	132	
		Do. ...	133	Excavating a channel at 45 miles 2 furlongs and 330 feet of Bank canal.	540	...	300	240	133	
		5. Miscellaneous...	134	Constructing cattle-crossing No. 5 at 5 miles 4 furlongs of Varahapuram channel.	675	...	300	375	134	

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Bank Canal—*cont.*						
				(3) Distributaries—*cont.*						
Kistna Western —*cont.*	...	5. Miscellaneous...	135	Constructing cattle-crossing No. 6 at 6 miles 7 furlongs and 220 feet of Varahapuram channel.	705	...	300	400	135	
		Do. ...	136	Constructing cattle-crossing No. 7 at 8 miles 1 furlong of Varahapuram channel.	725	...	300	425	136	
		Do. ...	137	Demarcation stones for Varahapuram channel ...	670	140	250	280	137	
		Do. ...	138	Do. do. Aravapalle Branch channel	420	...	100	320	138	
		Do. ...	139	Do. do. Ullipalem do.	370	...	100	270	139	
		Do. ...	140	Do. do. Allaparru do.	420	...	100	320	140	
		Do. ...	141	Do. do. Kuchinapudi do.	380	193	100	100	141	
				(4) Drainage and Protective Works.						
		1. Preliminary expenses.	142	Fixing B.Ms. on Gunderu-Bhattiprole drain ...	170	41	...	100	142	
		2. Land	143	Compensation for land for excavating Allaparru drain.	100	...	...	100	143	
		Do.	144	Compensation for land for excavating Kuchinapudi drain.	100	...	...	100	144	
		5. Miscellaneous.	145	Fixing B.M. and demarcation stones on Répalle main drain.	340	...	200	140	145	
		Do.	146	Fixing demarcation stones on Allaparru drain ...	200	45	50	100	146	
				Nizampatam Canal.						
				(2) Main Canals and Branches.						
		2. Land ...	147	Compensation for land for improvements to West side channel.	600	...	...	200	147	
		11. Buildings ...	148	Nizampatam rest-house	1,100	...	...	500	148	
				(3) Distributaries.						
		2. Land ...	149	Compensation for land for West side channel extension.	1,400	230	...	500	149	
		Do. ...	150	Compensation for Branch channel for West side channel extension.	400	17	...	200	150	
				(4) Drainage and Protective Works.						
		5. Miscellaneous ...	151	Demarcation stones on Pedapalli drain ...	180	...	...	180	151	
				Commamúr Canal.						
				(2) Main Canals and Branches.						
		5. River and Hill torrent works.	152	Opening vents in the east side wall of Kollimerla aqueduct at 19 miles 5 furlongs of Commamúr canal.	1,700	960	200	500	152	
				(3) Distributaries.						
		2. Land ...	153	Compensation for Bápatla channel	615	...	...	100	153	
		Do. ...	154	Do. for land for Tungabhadra-Bodapad channel.	550	33	...	200	154	
		Do. ...	155	Compensation for Cherukur branch	230	...	...	100	155	
		Do. ...	156	Compensation for Alleru channel	240	...	...	100	156	
		3. Works ...	157	Constructing head-sluice to Cherukur channel ...	760	...	...	500	157	

GOVERNMENT OF MADRAS.

CHARGES—cont.

Part II—cont.

Details of the Budget Estimate for Original Works under Irrigation Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Bank Canal—*cont.*						
				(3) Distributaries—*cont.*						
				Bápatla Tank East Branch.						
Kistna Western —*cont.*	...	3. Works ...	158	Head-sluice	1,020	...	900	100	158	
		Do. ...	159	Pipe sluice No. 1 at 0 mile 1 furlong	110	...	...	100	159	
		Do. ...	160	Bridge at 0 mile 6 furlongs and 330 feet ...	1,270	...	500	700	160	
		Do. ...	161	Pipe sluice No. 2 at 1 mile ½ furlong	95	...	...	100	161	
		Do. ...	162	Bridge at 1 mile 3 furlongs and 580 feet ...	1,170	...	400	700	162	
		Do. ...	163	Do. 1 mile 6 furlongs and 220 feet ...	1,210	...	500	700	163	
		Do. ...	164	Pipe sluice No. 4 at 1 mile 7½ furlongs ...	110	...	...	100	164	
		Do. ...	165	Tail drop	400	...	100	300	165	
				Bápatla Tank West Branch.						
		3. Works ...	166	Head-sluice	1,050	...	400	600	166	
		Do. ...	167	Pipe sluice No. 1 at 0 mile 4 furlongs	110	...	...	100	167	
		Do. ...	168	Bridge at 0 mile 4⅓ furlongs	1,130	...	400	700	168	
		Do. ...	169	Do. 1 mile 0 furlong and 290 feet ...	1,100	...	400	700	169	
		Do. ...	170	Do. 1 mile 5 furlongs and 20 feet ...	1,070	...	400	600	170	
		Do. ...	171	Do. on Cherukur channel	150	...	...	150	171	
		Do. ...	172	Pipe sluice No. 4 at 1 mile 6½ furlongs of West branch, Bápatla tank.	95	...	...	100	172	
		Do. ...	173	Pipe sluice No. 5 at 2 miles 2½ furlongs of West branch, Bápatla tank.	115	...	...	100	173	
		Do. ...	174	Pipe sluice No. 6 at 2 miles 7 furlongs of West branch, Bápatla tank	95	...	...	100	174	
		5. Miscellaneous...	175	Cattle-crossing at 1 mile 23 feet of A.B. channel.	480	...	250	230	175	
		Do. ...	176	Cattle-crossing at 2 miles 2 furlongs and 540 feet of A.B. channel.	500	...	300	200	176	
		Do. ...	177	Demarcation stones on Bápatla channel, East branch.	470	...	...	470	177	
		Do. ...	178	Demarcation stones on Bápatla channel, West branch.	600	...	...	600	178	
				(4) Drainage and Protective Works.						
		5. Miscellaneous...	179	Two Cattle-crossings at Rs. 500 each on Ramperu drain.	1,000	...	200	800	179	
				(2) Main Canals and Branches.						
		15. Miscellaneous...	180	Constructing cattle-crossing at Garikepad at 23 miles 5 furlongs of Commamúr canal.	1,740	...	1,500	240	180	
		Do. ...	181	Constructing cattle-crossing at Cherukur at 30/1 mile of Commamúr canal.	750	...	...	750	181	
		Do. ...	182	Constructing cattle-crossing at Potucutla at 34 miles 5 furlongs of Commamúr canal.	1,200	...	500	700	182	
		Do. ...	183	Constructing cattle-crossing at Gazalapalem at 43 miles 3 furlongs and 530 feet of Commamúr canal.	1,260	...	1,000	240	183	
				Total, Minor Works Costing Rs. 2,500 and under.	...	...	...	30,050		
				Total, Kistna Western Section ...	...	...	...	1,95,816		
				Grand Total, Kistna Delta System ...	...	...	...	3,27,476		

GOVERNMENT

OF MADRAS.

CHARG

ES—cont.

Part

II—cont.

Details of the Budget Estimate for Original Works under Irrigation

Major Works in the Madras Presidency for the year 1897-98—continued.

Division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant for 1897-98.	Item No.	Remarks and references.
				CAUVERY DELTA SYSTEM.	Rs.	Rs.	Rs.	Rs.		
				OPEN CAPITAL ACCOUNT.						
				(1) *Head Works.*						
Tanjore	...	3. Works ...	184	Fitting lift shutters to the Grand anicut ...	1,05,000	...	...	86,801	184	Estimate submitted to the Government of India for sanction in P.M.G., No. 155 I., dated 13th February 1897.
			185	Improvements to the Coleroon Upper anicut ...	5,34,000	...	...	39,430	185	Estimate submitted to the Government of India for sanction in P.M.G., No. 299 I., dated 22nd March 1897.
				(2) *Main Canals and Branches.*						
Negapatam		3. Regulators ...	186	Fitting the Mudikondanar bridge with shutters.	5,860	...	5,350	510	186	P.M.G., No. 473 I., dated 4th June 1896.
		Do. ...	187	Constructing a regulator of 9 vents across the Vettar just below the offtake of Odemboghyar.	23,600	9,863	12,746	1,500	187	,, ,, 921 I. ,, 2nd November 1895.
				(3) *Distributaries.*						
Tanjore		3. Works ...	188	Providing screw-gearing shutters of Colonel Drake-Brockman's pattern to head-sluices of North and South Rajan channels.	2,500	...	...	2,500	188	P.M.G., No. 937 I., dated 10th November 1896.
		Do. ...	189	Improving Maraneri Iyanar tank	3,920	..	520	3,400	189	,, ,, 599 I. ,, 31st July 1895.
		Do. ...	190	Improving Vadakari Kohoor channel, Thirumalarajanar left bank, 64th mile.	2,170	...	934	1,236	190	,, ,, 186 I. ,, 23rd February 1897.
		Do. ... / 4. Earthwork ...	191	Improvements to Santhanavary channel, an offtake of the Vettar.	5,590	...	400	5,190	191	,, ,, 667 I. ,, 11th August 1896.
		2. Land ... / 3. Works ... / 4. Earthwork ...	192	Improving the Kali voikal, an offtake of the Vickramanar (2. Land Rs. 500).	2,610	...	...	2,610	192	,, ,, 1086 I. ,, 23rd December 1896.
Negapatam		3. Works ...	193	Improving Melaperumalai dam across Marakakaryar and providing a new head to the Melaperumalai channel.	4,970	..	...	4,970	193	,, ,, 919 I. ,, 3rd November 1896.
				(4) *Drainages and Protective Works.*						
Tanjore		3. Works ...	194	Constructing a foot-bridge at the infall of Vickramanar drainage into Vennar.	1,180	...	480	700	194	P.M.G., No. 909 I., dated 1st November 1895.
		Do. ...	195	Constructing a drainage sluice, Nickunnam drainage channel.	1,490	...	690	800	195	
		Do. ...	196	Constructing a syphon for Ayappadi drainage under Thennangodian drainage on Nandalar left bank.	1,700	...	300	1,400	196	,, ,, 768 I. ,, 20th September 1895
		Do. ...	197	Enlarging the Keeranur drain in Nandalar ...	3,700	238	2,400	1,062	197	,, ,, 6 I. ,, 3rd January 1896.
		Do. ...	198	Constructing masonry regulating dam across Porai voikal for Varisaputhu Vadagal lands.	2,350	...	...	1,175	198	Estimates under preparation.
		Do. ...	199	Constructing a regulating dam across Iyavianar for Authugudi irrigation.	2,500	...	...	2,500	199	
				Total, Cauvery Delta System ...	...	...	...	1,55,784		
				SRIVAIKUNTAM ANICUT SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				(2) *Main Canals and Branches.*						
Tinnevelly ...	...	14. Tanks and reservoirs.	200	Palayakoyal tank improvements	2,580	...	1,080	1,626	200	P.M.G., No. 650 I., dated 12th August 1895.
				PERIYAR PROJECT.						
				(2) *Main Canals and* (3) *Distributaries.*						
Madura	...	.....	201	Works	...	...	...	2,02,439	201	The distribution of this amount by component works has not been reported by the Superintending Engineer, VI Circle.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part II—continued.

General Abstract of the Grants provided for above.

	In India.	In England.	Total.
	Rs.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.			
35. Construction of Protective Irrigation Works.			
Rushikulya Project	1,38,618	...	1,38,618
IRRIGATION.			
42. MAJOR WORKS (WORKING EXPENSES).			
Gódávari Delta System	21,000	...	21,000
Kistna do.	19,000	...	19,000
Pennéru Anicut System	— 1,103	...	— 1,103
Sangam do.	3,630	...	3,630
Kurnool-Cuddapah Canal	8,000	...	8,000
Cauvery Delta System	17,000	...	17,000
Srivaikuntam Anicut System	1,954	...	1,954
Total ...	69,481	...	69,481
CAPITAL EXPENDIIURE NOT CHARGED TO REVENUE.			
49. Irrigation.			
Gódávari Delta System	45,218	...	45,218
Kistna do.	3,27,476	...	3,27,476
Cauvery Delta System	1,55,784	...	1,55,784
Srivaikuntam Anicut System	1,626	...	1,626
Periyár Project	2,02,439	...	2,02,439
Total ...	7,32,543	...	7,32,543

GOVERNMENT OF MADRAS.

CHARGES.

Part III.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1897–98.

Executive division.		Estimate, 1897–98.		Estimate, 1896–97.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES).				
	Rushikulya Project.				
	Head Works.				
Ganjám ...	Mahánadi section	5,000		6,000	
	Rushikulya do.	1,000		1,000	
	Do. canal	16,000		12,000	
	Mahánadi do.	8,000		5,106	
	TOTAL, RUSHIKULYA PROJECT ...	...	30,000	...	24,106
	Gódávari Delta System.				
Eastern Division.	Head works	20,000		25,000	
	Main canal	500		2,000	
	Bank do.	9,000		10,000	
	Cocanada canal	8,000		8,000	
	Sámalkót do.	7,000		8,000	
	Mundapetta do.	5,000		6,500	
	Coringa do.	5,000		5,000	
	Kovur-Manjair junction canal	500		500	
	Injeram canal	3,500		3,000	
	Tooliabhaga drain, 31 miles	500		500	
	Takee drain, 27 do.	500		4,000	
	Biccavole drain, 17 do.	500		500	
	Compensation	...		2,000	
			60,000		75,000
Central Division.	Head works	...		1,000	
	Main canal	6,000		6,000	
	Gunnaram canal	10,000		10,000	
	Bank canal	12,000		12,000	
	Amalápuram canal	7,000		7,000	
	Bendamurlanka canal	4,000		5,000	
	Billakurru canal	1,000		1,000	
	Drainages	15,000		17,000	
	Compensation	...		1,000	
			55,000		60,000
Western Division.	Head works	...		2,000	
	Main canal	5,000		6,000	
	Kakaraparu canal	2,000		3,000	
	Gostanadi and Velpur canal	9,000		10,000	
	Bank canal	6,000		7,000	
	Narsápur do.	10,000		13,000	
	Ellore do.	10,000		15,000	
	Attili do.	6,000		6,000	
	Junction do.	1,000		1,000	
	Venkiah and Weyeru canal	5,000		8,000	
	Undi canal	8,000		9,000	
	Nakkala drain, 25 miles				
	Kaza do. 16 do.				
	Mogultur do.	19,435		20,427	
	Gonter do.				
	Gostanadi do.				
	Yannamadurru drain, 32 miles				
	Compensation	...		2,000	
			81,435		1,02,427
	TOTAL, GODAVARI DELTA SYSTEM ...	...	1,96,435	...	2,37,427

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1897-98—continued.

Executive division.		Estimate, 1897-98.		Estimate, 1896-97.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Kistna Delta System.				
	Eastern Section.				
Kistna Eastern Division.	Ellore canal	20,000		20,000	
	Masulipatam canal	24,000		24,000	
	Ryves' canal	16,500		16,500	
	Pulleru do.	28,500		21,301	
	Polraz do.	15,000		15,000	
	Bantumilli canal	15,000		15,000	
	Pamarru junction canal	1,000		...	
	Pedalanka channel	12,000		12,000	
			1,32,000		1,23,801
Kistna Northern Division.	Head works	13,000		10,000	
	Main canal	6,000		5,000	
	Ellore do.	4,000		4,000	
	Masulipatam canal	7,000		2,000	
	Ryves' canal	5,000		5,000	
			35,000		26,000
Kistna Western Division.	Main canal	5,000		5,000	
	Bank do.	40,000		30,000	
	Commamur canal	40,000		40,000	
	Nizampatam do.	29,024		24,500	
	Compensation	...		500	
			1,14,024		1,00,000
	TOTAL, KISTNA DELTA SYSTEM ...	...	2,81,024	...	2,49,801
	Pennéru Anicut System.				
Nellore Division.	Head works	5,000		5,000	
	Main canal	2,000		2,000	
	Jaffer Sahib's canal	2,500		2,500	
	Sarvapalle do.	1,500		1,500	
	Kistnapatam do.	3,000		3,000	
	Delta tanks and reservoirs	10,000		10,000	
	Total ...	24,000		24,000	
	Deduct old maintenance charges ...	*13,860		*13,860	
			10,140		10,140
	NET TOTAL, PENNERU ANICUT SYSTEM ...	...	10,140	...	10,140

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897-98.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1897-98—cont.

Executive division.		Estimate, 1897-98.		Estimate, 1896-97.	
		Amount.	Total.	Amount.	Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Sangam Anicut System.				
Nellore Division—*cont.*	Head works	4,000		4,000	
	Kanigiri canal	23,000		23,000	
	Duvur do.	3,000		3,000	
	Total ...	30,000		30,000	
	Deduct old maintenance charges ...	*11,884		*11,884	
			18,116		18,116
	NET TOTAL, SANGAM ANICUT SYSTEM ...	...	18,116	...	18,116
	Kurnool-Cuddapah Canal.				
Kurnool Division.	Annual maintenance—				
	Head works	1,200		1,200	
	First section	5,800		5,800	
	Second do.	2,900		2,900	
	Third do.	5,500		5,500	
	Fourth do.	6,400		6,400	
	Fifth do.	5,300		5,300	
	Sixth do.	11,300		11,300	
	Distributaries	11,700		11,700	
	Drainages and Protective Works	900		900	
	Special Repairs	8,732		5,000	
	Reserve	1,000		1,000	
			60,732		57,000
	TOTAL, KURNOOL-CUDDAPAH CANAL ...	...	60,732	...	57,000
Salem Division.	Barur Tank Project	1,447	1,447	1,500	1,500
	Cauvery Delta System.				
Tanjore Division.	Upper Coleroon anicut	2,000		2,000	
	Grand anicut	3,000		3,000	
	Cauvery	5,631		5,800	
	Kodumurti and Puthaur	1,000		1,000	
	Arasillár	1,250		1,250	
	Trimulrajen	1,700		1,700	
	Mudicondanar	1,500		1,500	
	Nattar	300		300	
	Keerthemanar	200		200	
	Veerasholen	600		600	
	Solasudamaniar	700		700	
	Munjalaur	910		910	
	Vellapar	800		800	
	Vanjeaur	300		300	
	South Puthar	200		200	
	Vennár	2,000		2,000	
	Vettár	2,090		2,090	
	Odemboghy	100		100	
	Nundalar	1,200		1,200	

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897-98.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1897–98—cont.

Executive division.		Estimate, 1897-98. Amount.	Estimate, 1897-98. Total.	Estimate, 1896-97. Amount.	Estimate, 1896-97. Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Cauvery Delta System—continued.				
Tanjore Division—*cont.*	Vicramanar	1,050		1,050	
	Kona voikal	600		600	
	Pudumaniar	1,500		1,500	
	Ooppanaur	800		800	
	Vadavaur	500		500	
	Munneyar	2,000		2,000	
	Noolar	1,000		1,000	
	Shollanar	200		200	
	Palavar	2,000		2,000	
	Iyavianar	1,600		1,600	
	Mainkarainar	1,200		1,200	
	Thirunagari channel	200		200	
	Ambanar	200		200	
	Kadalayar	600		600	
	Chittar	400		400	
	Thenkorayar	200		200	
	Pravadynar	100		100	
	Puthaur	200		200	
			39,831		40,000
Negapatam Division.	Vennáur	1,000		1,100	
	Vettáur	1,000		1,400	
	Odemboghyar	1,500		1,500	
	Corayaur	2,000		2,500	
	Pamanayaur	2,500		3,500	
	Pandavyaur	1,000		1,000	
	Vellayaur	1,500		1,500	
	Athiveeraramanar	1,500		2,000	
	Harichendranady	800		800	
	Mullayaur	2,000		1,976	
	Iyanar	200		200	
	Drainage and protective works	2,500		4,500	
	Unforeseen and incomplete works	...		...	
			17,500		21,976
Trichinopoly Division.	Annual maintenance—				
	Punguni channel	900		840	
	Peruvalai do.	1,150		900	
	Iyen do.	1,200		1,200	
	Special Repairs—				
	Punguni channel	1,030		200	
	Peruvalai do.	1,750		1,000	
	Iyen do.	2,100		1,500	
	Compensation	670		360	
			8,800		6,000
	Total ...	...	66,131	...	67,976
	Deduct old maintenance charges ...	...	* 1,05,634	...	* 1,05,634
	NET TOTAL, CAUVERY DELTA SYSTEM ..	...	— 39,503	...	— 37,658

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897–98.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Major Works in the Madras Presidency for the year 1897–98—continued.

Executive division.		Estimate, 1897-98. Amount.	Estimate, 1897-98. Total.	Estimate, 1896-97. Amount.	Estimate, 1896-97. Total.
	IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.
	42. MAJOR WORKS (WORKING EXPENSES)—continued.				
	Srivaikuntam Anicut System.				
Tinnevelly Division.	Head works	1,000		500	
	North main channel	3,000		3,500	
	Tanks fed by the above channel	7,000		4,000	
	South main channel	2,500		3,000	
	Tanks fed by the above channel	6,500		5,000	
			20,000		16,000
	Deduct old maintenance charges ...	...	* 5,208	...	* 5,208
	NET TOTAL, SRIVAIKUNTAM ANICUT SYSTEM ...	...	14,792	...	10,792
	Periyár Project.				
Madura Division.	Main canal	15,000		...	
	Branch channels	10,000		...	
	Rent payable to the Travancore Government under the Periyár lease	40,000		...	
			65,000		

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897–98.

General Abstract of the Grants provided for above.

	In India.	In England.	Total.
IMPERIAL.	Rs.	Rs.	Rs.
Major Works.			
42. IRRIGATION (WORKING EXPENSES).			
Rushikulya Project	30,000	...	30,000
Gódávari Delta System	1,96,435	...	1,96,435
Kistna do. do.	2,81,024	...	2,81,024
Pennéru Anicut do.	10,140	...	10,140
Sangam Anicut Project	18,116	...	18,116
Kurnool-Cuddapah Canal	60,732	...	60,732
Barur Tank Project	1,447	...	1,447
Cauvery Delta System	— 39,503	...	— 39,503
Srívaikuntam Anicut System	14,792	...	14,792
Periyár Project	6,5000	...	6,500
Total ...	6,38,183	...	6,38,183

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

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

	Budget Estimate, 1897–98.	Revised Estimate, 1896–97.
	Rs.	Rs.
IMPERIAL.		
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Grant for Works	1,38,618	1,66,910
Deduct item for which no charge for Establishment is admissible.		
Compensation for land	5,000	10,000
Net Grant ...	1,33,618	1,56,910
Contribution to Provincial Funds at 23 per cent. on the Net Grant ...	30,732	36,090
IRRIGATION.		
42. Major Works (Working Expenses).		
Grant for Works and Repairs	7,07,664	8,99,832
Deduct items for which no charge for Establishment is admissible.		
Compensation for land, Gódávari Delta System	1,500	5,000
Do. do. Kistna do.	1,000	500
Do. do. Cauvery do.	670	360
Rent payable to the Travancore Government under the Periyár lease	40,000	40,000
Total ...	43,170	45,860
Net Grant ...	6,64,494	8,53,972
A. 23 per cent. on the Net Grant	1,52,834	1,96,413
Direct Revenue	2,93,000	2,93,000
Deduct estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool-Cuddapah Canal	1,12,100	1,12,100
Net Direct Revenue ...	1,80,900	1,80,900
B. 10 per cent. on Net Direct Revenue	18,090	18,090
Irrigation Revenue from Major (Productive) Works exclusive of enhanced share of Land Revenue	65,10,100	61,23,000
Add estimated collections in the Revenue Department of water-rates levied on land irrigated under the Kurnool-Cuddapah Canal	1,18,000	1,18,000
Total ...	66,28,100	62,41,000

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part IV—continued.

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

	Budget Estimate, 1897–98.	Revised Estimate, 1896–97.
	Rs.	Rs.
C. 6 per cent. on Irrigation Revenue	3,97,686	3,74,460
Total, A + B + C ...	5,68,610	5,88,963
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Total Grant for Works	7,32,543	6,71,086
Deduct item for which no charge for Establishment is admissible.		
Land compensation	39,687	45,512
Net Grant ...	6,92,856	6,25,574
Contribution to Provincial Funds at 23 per cent. on Net Grant ...	1,59,357	1,43,882

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A.

Distribution of the Provision for Establishment by System of Canals for the year 1897–98.

—	Establishment Charges.						Total.
	23 per cent. on the Grant for Works and Repairs, exclusive of Land Compensation.		10 per cent. on Direct Revenue.		6 per cent. on Indirect Revenue.		
	Grant.	Percentage.	Estimated Revenue.	Percentage.	Estimated Revenue.	Percentage.	
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.							
35. Construction of Protective Irrigation Works.							
Rushikulya Project	1,33,618	30,732	...	...	...	...	30,732
IRRIGATION.							
42. MAJOR WORKS (WORKING EXPENSES).							
Gódávari Delta System	2,15,935	49,665	1,11,000	11,100	27,05,000	1,62,300	2,23,065
Kistna do. do.	2,99,024	68,776	53,600	5,360	25,14,000	1,50,840	2,24,976
Pennéru Anicut System	9,037	2,078	700	70	1,47,000	8,820	10,968
Sangam Anicut Project	21,746	5,002	600	60	1,70,000	10,200	15,262
Kurnool-Cuddapah Canal	68,732	15,808	9,800	980	1,18,000	7,080	23,868
Barur Tank Project	1,447	333	...	...	12,000	720	1,053
Cauvery Delta System	— 23,173	— 5,330	2,500	250	8,56,100	51,366	46,286
Srivaikuntam Anicut System ...	16,746	3,852	1,200	120	1,06,000	6,360	10,332
Periyár Project	25,000	5,750	...	...	...	...	5,750
Rushikulya Project	30,000	6,900	1,500	150	...	...	7,050
Total ..	6,64,494	1,52,834	1,80,900	18,090	66,28,100	3,97,686	5,68,610
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.							
49. IRRIGATION.							
Gódávari Delta System	42,531	9,782	...	...	...	...	9,782
Kistna Delta System	2,90,976	66,924	...	...	...	...	66,924
Cauvery Delta System	1,55,284	35,716	...	...	...	...	35,716
Srivaikuntam Anicut System	1,626	374	...	...	...	...	374
Periyár Project	2,02,439	46,561	...	...	...	...	46,561
Total ..	6,92,856	1,59,357	...	...	...	...	1,59,357
GRAND TOTAL ..	14,90,968	3,42,923	1,80,900	18,090	66,28,100	3,97,686	7,58,699

GOVERNMENT OF MADRAS.

CHARGES.

Part V.

Detail of the Budget Estimate for Tools and Plant under Irrigation Major Works in the Madras Presidency for the year 1897–98.

—	Budget Estimate, 1897–98.	Budget Estimate, 1896–97.
IMPERIAL.	Rs.	Rs.
FAMINE RELIEF AND INSURANCE.		
35. Construction of Protective Irrigation Works.		
Tools and Plant required for the Rushikulya Project	150	2,315
IRRIGATION.		
42. MAJOR WORKS (WORKING EXPENSES).		
Godavari Delta System.		
Eastern Division.		
8. Repairs and carriage—		
Maintenance of floating plant including existing ferries	20,000	20,500
Special repairs to do. do. do.	5,000	5,000
Charges on account of steamers used by Public Works officers on duty ...	4,500	2,500
Machinery	2,000	2,000
Total ..	31,500	30,000
Central Division.		
8. Repairs and carriage, repairs to floating plant, tools and machinery	3,000	4,000
Western Division.		
2. Plant and machinery	2,000	1,500
3. Tools	...	500
8. Repairs and carriage—		
Repairs to floating plant	3,000	3,000
Tools		
Machinery		
Total ..	5,000	5,000
TOTAL, GODAVARI DELTA SYSTEM ..	39,500	39,000
Kistna Delta System.		
Eastern Division.		
8. Repairs and carriage—		
Annual maintenance of ferry boats	4,000	4,000
Special repairs to ferry boats	1,000	1,000
Repairs and conveyance of tools, &c.	500	500
Total ..	5,500	5,500
Northern Division.		
1. Scientific instruments	500	500
2. Tools—New supply	500	500
Navigation Plant—		
2. Punts for maintaining two Cockburn's dredgers	3,500	8,000
8. Repairs and carriage—		
Annual repairs of floating plant	25,000	25,500
Special repairs of do.	9,000	9,300
Repairs to machinery	700	700
Charges on account of steamer used by Public Works officers	800	800
Repairs and carriage of tools and plant	500	500
Total ..	40,500	45,800

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part V—continued.

Detail of the Budget Estimate for Tools and Plant under Irrigation Major Works in the Madras Presidency for the year 1897–98—cont.

—	Budget Estimate, 1897–98.	Budget Estimate, 1896–97.
	Rs.	Rs.
IRRIGATION—continued.		
42. MAJOR WORKS (WORKING EXPENSES)—continued.		
Western Division.		
8. Repairs and carriage—		
Repairs to dredgers		
Maintenance of floating plant	4,000	4,000
Repairs and conveyance of tools, &c.		
Do. to scientific instruments		
Total ..	4,000	4,000
TOTAL, KISTNA DELTA SYSTEM ..	50,000	55,300
Penneru Anicut System.		
8. Repairs and carriage	...	...
Deduct old maintenance charges	* 5	* 5
NET TOTAL, PENNERU ANICUT SYSTEM ..	— 5	— 5
Sangam Anicut System.		
8. Repairs and carriage	49	50
Deduct old maintenance charges	* 57	* 57
NET TOTAL, SANGAM ANICUT SYSTEM ..	— 8	— 7
Kurnool-Cuddapah Canal.		
1. Scientific and mathematical instruments	300	300
8. Repairs and carriage—		
Annual maintenance of floating plant	1,000	1,036
Miscellaneous and sundries	300	300
TOTAL, KURNOOL CANAL ..	1,600	1,636
Cauvery Delta.		
Tanjore division—		
3. Tools—		
New supplies	2,300	...
8. Repairs and carriage	200	200
Total ...	2,500	200
Negapatam division—		
3. Tools—		
New supplies	200	200
8. Repairs and carriage	100	100
Total ...	300	300
Trichinopoly—		
8. Repairs and carriage	20	...
TOTAL, CAUVERY DELTA SYSTEM ..	2,820	500
Deduct old maintenance charges ...	* 1,603	* 1,603
NET TOTAL, CAUVERY DELTA SYSTEM ..	1,217	— 1,103

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897–98.

GOVERNMENT OF MADRAS.

CHARGES—continued.

Part V—continued.

Detail of the Budget Estimate for Tools and Plant under Irrigation Major Works in the Madras Presidency for the year 1897–98—cont.

—	Budget Estimate, 1897–98.	Budget Estimate, 1896–97.
	Rs.	Rs.
IRRIGATION—continued.		
42. MAJOR WORKS (WORKING EXPENSES)—continued.		
Srivaikuntam Anicut System—		
8. Repairs and carriage	...	...
Deduct old maintenance charges ...	* 78	* 78
NET TOTAL, SRIVAIKUNTAM ANICUT SYSTEM ..	— 78	— 78
Periyár project		
8. Repairs and carriage	250	...
Rushikulya project system—		
8. Repairs and carriage	1,250	200
TOTAL, 42. MAJOR WORKS (WORKING EXPENSES) ..	93,726	94,943
CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.		
49. Irrigation.		
Gódávari Delta System.		
Eastern division—		
3. Tools	...	165
Kistna Delta System.		
Eastern division—		
4. Navigation plant—		
Ferry boats	5,000	5,000
Northern division—		
4. Navigation plant—		
Two double trap punts	...	8,900
Constructing No. 1 stern wheel steamer	31,200	...
Do. „ 2 do.		
16. Subordinate staff boats	11,600	...
A new staff boat for officers	3,000	...
12. Dinghies	4,800	...
Western division—		
Tramway from Kolanukoduru quarry	...	10,000
4. Navigation plant—		
Ferry ballacuts	...	2,078
TOTAL, KISTNA DELTA SYSTEM ..	55,600	25,978
Srivaikuntam Anicut System.		
3. Tools—Tinnevelly division	...	87
Cauvery Delta System.		
3. Tools—Tanjore division	1,500	...
Periyár Project.		
3. Tools—Madura division	1,000	5,500
TOTAL, CAPITAL ACCOUNT ..	58,100	31,730

* These sums are provided in the budget estimates for Minor Works and Navigation for 1897–98.

GOVERNMENT OF MADRAS.

CHARGES.

Part VI.

Abstract of the Probable Increase or Decrease in the Suspense Accounts of Irrigation Major Works in the Madras Presidency for the year 1897–98—Nil.

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

MINOR WORKS AND NAVIGATION.

FINAL ISSUE.

Public Works Department.

BUDGET ESTIMATE

OF

REVENUE AND EXPENDITURE

UNDER

IRRIGATION MINOR WORKS AND NAVIGATION

IN THE

MADRAS PRESIDENCY

FOR THE YEAR

1897-98.

MADRAS,
23rd April 1897.

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

CONTENTS

	PAGE
ABSTRACT BUDGET ESTIMATE OF REVENUE	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	3
DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—	
PART I.—Arranged by Projects	5
„ II.—Detail of the Budget Estimate for Original Works	8
„ III.—Detail of the Budget Estimate for Maintenance and Repairs	24
„ IV.—Detail of the Budget Estimate for Establishment	26
„ IV-A.—Distribution of the provision for Establishment by System	27
„ V.—Detail of the Budget Estimate for Tools and Plant	29
„ VI.—Detail of Estimate of Suspense Balances	30
APPENDIX—	
SCHEDULE A.—Showing the Distribution of the grants for Minor Original Works and Repairs ...	31

GOVERNMENT OF MADRAS.

REVENUE.

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

	Actual Realizations, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.
IRRIGATION AND NAVIGATION WORKS.				
Works for which Capital and Revenue Accounts are kept.				
Thadapalli Channel System	89	80	80	80
Arkenkotta Channel System	6	...	...	...
Kalingaroyen Channel System	157	420	420	120
Pálár Anicut System	2,156	1,540	1,300	1,300
Poiney Anicut System	226	600	600	500
Cheyáru Anicut System	258	200	200	200
Chembrambakam Tank System	140	30	180	140
Madras Water-supply and Irrigation Extension	10,103	13,380	13,500	12,500
Valluru Anicut System	21	...	20	20
Tirukkóyilúr Anicut System	378	570	570	570
Mehamattur Anicut System	47	30	50	50
Vriddhachalam Anicut System	130	50	50	50
Shatiatope Anicut System	215	300	300	300
Pelandorai Anicut System	105	250	250	250
Lower Coleroon Anicut System	1,024	1,000	1,030	1,030
Maradur Anicut System	197	350	250	290
Buckingham Canal	1,08,383	1,10,000	1,10,000	1,11,400
Védáranniyam Canal	1,136	1,200	1,200	1,200
Total ...	1,24,771	1,30,000	1,30,000	1,30,000
Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	6,830	10,000	10,000	10,000
AGRICULTURAL WORKS.				
Works for which neither Capital nor Revenue Accounts are kept ...	24,239	30,000	25,000	25,000
TOTAL ...	1,55,840	1,70,000	1,65,000	1,65,000

GOVERNMENT OF MADRAS.

CHARGES.

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

	Reference to Detailed Estimate.	Actual Outlay, 1895-96.	Budget Estimate, 1896-97.	Revised Estimate, 1896-97.	Budget Estimate, 1897-98.
PROVINCIAL.					
MINOR WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	Pages.	Rs.	Rs.	Rs.	Rs.
CAPITAL.					
1. Works ... In progress ... Rs. 2,30,493; Not commenced ... 95,105	8 to 15	4,93,224	9,22,858	5,40,519	3,25,598
2. Establishment	27	1,06,799	1,78,019	1,18,026	73,656
3. Tools and Plant	29	17,360	21,733	51,181	4,406
Receipts on capital account		—1,392	...	...	...
Total, Capital ...		6,15,991	11,22,610	7,09,726	4,03,660
REVENUE.					
1. Extensions and Improvements. In progress ... ... ; Not commenced Rs. 24,913	16 to 19	21,540	22,659	30,901	24,913
2. Maintenance and Repairs	24 & 25	1,93,695	1,72,209	2,30,503	1,89,823
3. Establishment	27	60,473	57,819	73,123	62,389
4. Tools and Plant	29	4,851	3,875	5,275	2,875
Refunds of Revenue		133	...	...	...
Total, Revenue ...		2,80,692	2,56,562	3,39,802	2,80,000
Total, Minor Works for which Capital and Revenue Accounts are kept ...		8,96,683	13,79,172	10,49,528	6,83,660
MINOR WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
1. Works— Major ... In progress ... ... Rs. 52,212; Not commenced ... 7,330	18 & 19	1,16,669	1,09,000	1,68,823	59,542
Minor	18 & 19	1,686	2,13,857	1,37,088	1,67,789
2. Repairs	25	10,79,110	10,34,051	10,02,270	9,04,818
3. Establishment	28	5,47,928	5,42,994	5,33,714	4,97,189
4. Tools and Plant	29	18,224	19,856	19,099	16,552
Refunds of Revenue		101	...	...	...
Total, Minor Works for which neither Capital nor Revenue Accounts are kept ...		17,63,718	19,19,758	18,60,994	16,45,890
AGRICULTURAL WORKS.					
Works for which neither Capital nor Revenue Accounts are kept.					
1. Works— Major ... In progress ... Rs. 59,420; Not commenced	20 & 21	98,015	92,500	1,20,056	59,420
Minor ...	20 & 21	13,277	13,900	23,233	17,700
2. Repairs ...	25	3,13,998	3,74,389	5,95,258	3,77,212
3. Establishment ...	28	90,819	1,08,407	1,67,191	1,04,467
4. Tools and Plant	29	6,108	6,874	10,740	6,650
Refunds of Revenue		336	...	...	...
Total, Agricultural Works ...		5,22,553	5,96,070	9,16,478	5,65,450
Total, Provincial ...		31,82,954	38,95,000	38,27,000	28,95,000

GOVERNMENT OF MADRAS.

CHARGES—continued.

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

	Reference to Detailed Estimate.	Actual Outlay, 1895–96.	Budget Estimate, 1896–97.	Revised Estimate, 1896–97.	Budget Estimate, 1897–98.
GRAND TOTAL, PROVINCIAL 43. MINOR WORKS AND NAVIGATION.	PAGES.	Rs.	Rs.	Rs.	Rs.
Works ... In progress ... ... Rs. 3,42,125					
Works ... Not commenced 3,12,837		7,44,411	13,74,774	10,20,620	6,54,962
Repairs		15,86,803	15,80,649	18,28,031	14,71,854
Establishment		8,06,019	8,87,239	8,92,054	7,37,701
Tools and Plant		46,543	52,338	86,295	30,483
Refunds of Revenue		570	...	...	...
Receipts on capital account		—1,392	...	...	...
Total, Provincial ...		31,82,954	38,95,000	38,27,000	28,95,000
LOCAL IRRIGATION CESS FUND.					
43. MINOR WORKS AND NAVIGATION.					
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.					
I. Original Works		7,253	3,000	6,000	7,000
II. Repairs		20,162	5,000	6,000	2,000
Total ...		27,415	8,000	12,000	9,000

GOVERNMENT OF MADRAS.

CHARGES.

Part I.

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

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which Capital and Revenue Accounts are kept.						
CAPITAL.						
Works in Progress.						
Kurnool-Cuddapah Canal ...	19,350	5,345	18,450	16,974	3,490	P.M.G., No. 766 I., dated 20th September 1895, and No. 1098 I., dated 19th December 1895.
Munnyeru Project	3,68,000	1,44,566	1,23,000	1,59,900	90,030	P.M.G., No. 1089 I., dated 17th December 1893, and No. 497 I., dated 12th June 1896. Revised estimate under preparation.
Sagiléru Project	3,61,000	2,68,171	1,10,700	98,400	42,180	P.M.G., No. 10 I., dated 9th January 1894, and No. 915 I., dated 21st November 1894.
Pálár Anicut System	20,96,790	19,51,936	12,300	8,610	14,840	Government of India Register No. 17 I. of 1884–85. *Vide* P.M.G., No. 83 I., dated 30th January 1891; No. 1002 I., dated 17th November 1893; No. 1053 I., dated 2nd December 1893; No. 652 I., dated 14th August 1895; No. 84 I., dated 23rd January 1896; and No. 303 I., dated 31st March 1896.
Pelandorai Anicut System ...	5,06,640	4,12,385	...	32,273	52,830	P.M.G., No. 378 I., dated 9th May 1894; No. 1088 I., dated 18th December 1895; No. 301 I., dated 31st March 1896; and No. 551 I., dated 2nd July 1896.
Lower Coleroon Anicut System.	9,15,712	5,97,399	78,720	93,000	1,10,340	P.M.G., No. 835 I., dated 8th October 1892; No. 960 I., dated 6th November 1893; No. 372 I., dated 5th May 1894; No. 181 I., dated 25th Feb. 1895; No. 273 I., dated 21st March 1896; No. 535 I., dated 25th June 1896; and No. 555 I., dated 3rd July 1896.
Buckingham Canal	86,14,000	82,03,148	1,50,140	2,48,976	89,950	Government of India Register No. 15 I. of 1883–84; P.M.G. No. 3 I., dated 8th January 1895.
Other Projects	...	...	...	51,593	...	
Total, Capital ..	...	...	...	7,09,726	4,03,660	
REVENUE.						
Kurnool-Cuddapah Canal ...	...	...	...	1,722	...	
Ganjám Minor Rivers System ...	...	...	3,690	12,300	12,300	
Cumbum Tank System ...	...	...	2,460	984	2,460	
Thadapalli Channel System ...	...	...	4,300	8,988	6,030	
Arkenkotta do. do. ...	...	...	1,840	2,829	2,340	
Kalingaroyen do. do. ...	...	...	2,500	7,398	2,350	
Pálár Anicut System	...	...	43,602	55,682	40,220	
Poiney do. do.	...	...	12,360	11,130	12,350	
Cheyáru do. do.	...	...	16,010	27,230	18,470	
Chembrambakam Tank System.	...	...	— 2,040	— 2,109	— 2,770	
Madras Water-supply and Irrigation Extension.	...	...	— 270	2,817	— 360	
Valluru Anicut System ...	...	...	900	656	3,940	
Tirukkóyilúr Anicut System ...	...	...	12,350	8,783	13,590	

GOVERNMENT OF MADRAS.

CHARGES.

Part I—continued.

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

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
43. MINOR WORKS AND NAVIGATION—*continued.*						
Minor Works for which Capital and Revenue Accounts are kept—continued.						
REVENUE—*cont.*						
Mehamattur Anicut System ...	...	...	1,850	3,389	1,850	
Vriddhachalam Anicut System...	...	...	3,700	4,930	3,690	
Shatiatope Anicut System ...	...	...	14,660	16,259	14,790	
Pelandorai do. do. ...	...	...	4,190	17,105	4,180	
Lower Coleroon Anicut System.	...	...	28,390	31,616	27,780	
Nandyar Channel System ...	...	...	5,050	2,252	9,360	
Maradur Anicut System ...	...	...	11,110	20,940	17,240	
Chilka Lake Canal	...	...	370	370	370	
Buckingham Canal	...	...	85,110	98,714	83,470	
Védáranniyam Canal	...	...	4,430	5,817	6,350	
Total, Revenue ..	...	...	2,56,562	3,39,802	2,80,000	
Total, Minor Works for which Capital and Revenue Accounts are kept.	...	...	13,79,172	10,49,528	6,83,660	
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.						
Old maintenance charges ...	...	...	4,21,282	4,23,622	4,26,136	
Ordinary Minor Works ...	...	...	7,90,946	8,50,825	6,96,754	
Tank Restoration Works—Execution	...	...	6,77,530	5,51,547	4,88,000	
Minor Works, Revenue Department.	...	...	30,000	35,000	35,000	
Total ...	...	...	19,19,758	18,60,994	16,45,890	
Total, Irrigation and Navigation Works.	...	...	32,98,930	29,10,522	23,29,550	
AGRICULTURAL WORKS.						
Works for which neither Capital nor Revenue Accounts are kept.						
MAJOR ORIGINAL WORKS.						
In Progress.						
Raising the Vasista Gódávari right bank from head to Chinchinada.	72,800	15,826	30,000	35,596	21,378	P.M.G., No. 56 I., dated 19th January 1893.

GOVERNMENT OF MADRAS.

CHARGES.

Part I—continued.

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

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1895–96.	Budget Estimate, 1896–97.	Probable Outlay during 1896–97 (Revised Estimate).	Budget Estimate, 1897–98.	Remarks and References.
PROVINCIAL—*continued.*	Rs.	Rs.	Rs.	Rs.	Rs.	
AGRICULTURAL WORKS—*continued.*						
Works for which neither Capital nor Revenue Accounts are kept—continued.						
MAJOR ORIGINAL WORKS—*cont.*						
In Progress—cont.						
Raising the Kistna river left bank below the anicut.	78,300	23,498	10,000	10,000	35,892	P.M.G., No. 278 I., dated 28th March 1893.
Raising Mudicondanar both banks from road No. 15 to eastern limit of Kumbakónam bridge.	5,150	...	...	3,000	2,150	P.M.G., No. 402 I., dated 7th May 1896.
Total, Major Original Works ...	...	...	...	...	59,420	
Minor Original Works	...	...	...	...	17,700	
Repairs	...	...	...	...	3,77,213	
Establishment	...	...	...	...	1,04,467	
Tools and Plant	...	...	...	...	6,650	
Total, Agricultural Works ...	...	...	...	...	5,65,450	
Total, Provincial ...	...	...	...	...	28,95,000	
LOCAL IRRIGATION CESS FUND.						
43. MINOR WORKS AND NAVIGATION.						
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.	...	...	8,000	12,000	9,000	
Total ...	...	...	8,000	12,000	9,000	

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1897–98.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895–96.	Outlay: Probable during 1896–97.	Grant, 1897–98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				KURNOOL-CUDDAPAH CANAL.						
				OPEN CAPITAL ACCOUNT.						
				2. *Main Canals and Branches.*						
Kurnool ...	...	14. Miscellaneous.	1	Demarcating land under the canal	13,360	5,345	6,000	2,838	1	P.M.G., No. 1098 I., dated 19th December 1895.
				MUNNYERU PROJECT.						
				CAPITAL ACCOUNT.						
				2. *Main Canals and Branches.*						
Kistna Northern.	...	6. Other cross drainage works.	2	Under-tunnel at 12 miles 7 furlongs	7,500	...	652	6,800	2	
		Do.	3	Do. at 14 do. 4 do.	2,300	...	...	1,500	3	
		Do.	4	Do. at 15 do. 3½ do.	2,240	...	...	2,200	4	
		Do.	5	Do. at 16 do. 2 do.	2,210	...	...	2,200	5	
		Do.	6	Do. at 16 do. 7 do.	5,760	...	...	5,750	6	
		Do.	7	Do. at 18 do. 6 do.	3,600	...	771	2,825	7	
		Do.	8	Do. at 19 do. 4 do.	2,210	...	234	1,975	8	
		Do.	9	Do. at 20 do. 3 do.	1,600	...	1,301	300	9	
		Do.	10	Do. at 21 do. 2 do.	3,500	...	1,396	2,100	10	
		Do.	11	Do. at 22 do. 0 do.	2,180	...	...	2,175	11	
		Do.	12	Do. at 23 do. 3 do.	2,260	...	...	2,250	12	
		Do.	13	Do. at 25 do. 2 do.	2,220	...	...	2,200	13	
		7. Bridges ...	14	Bridge at 1 mile 0 furlong	2,110	783	882	1,225	14	
		Do. ...	15	Do. at 12 do. 5/330 furlongs	1,350	...	...	1,350	15	P.M.G., No. 1089 I., dated 12th December 1893.
		Do. ...	16	Do. at 14 do. 4 furlongs	1,350	...	...	1,350	16	
		Do. ...	17	Do. at 16 do. 2 do.	1,350	...	...	1,350	17	
		Do. ...	18	Do. at 17 do. 7 do.	1,350	...	...	1,350	18	
		Do. ...	19	Do. at 19 do. 7 do.	1,350	...	170	1,150	19	
		Do. ...	20	Do. at 23 do. 3 do.	1,230	...	...	1,225	20	
		Do. ...	21	Do. at 24 do. 0 do.	1,230	...	...	1,225	21	
		12. Earthwork ...	22	Excavating and banking Munnyeru main channel.	1,13,400	37,517	45,036	13,500	22	
		15. Miscellaneous.	23	Demarcation stones for branch channels ...	2,000	671	...	750	23	
				3. *Distributaries.*						
		3. Works ...	24	Sluices for branch channels	8,380	...	...	8,250	24	
		4. Earthwork ...	25	Excavating branch channels	11,000	...	6	6,870	25	
		5. Miscellaneous.	26	Demarcation stones for branch channels ...	1,000	...	...	1,000	26	
				Total, Munnyeru Project ...	...	...	...	72,870		
				SAGILERU PROJECT.						
				CAPITAL ACCOUNT.						
				1. *Head Works.*						
Cuddapah ...	...	3. Works ...	27	Constructing an anicut	50,200	...	...	1,000	27	P.M.G., No. 384 I., dated 22nd April 1897.
		Do. ...	28	Do. scouring sluice	14,800	...	...	1,500	28	

Detail of the Budget Estimate for Original Works under Irrigation Minor Works in the Madras Presidency for the year 1897-98—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay to end of 1895-96.	Outlay probable during 1896-97.	Grant, 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				SAGILERU PROJECT—*cont.*						
				CAPITAL ACCOUNT—*cont.*						
				2. *Main Canals and Branches.*						
Cuddapah—*cont.*	...	3. Regulator ...	29	Constructing head-sluice	17,800	...		1,500	29	
		Do. ...	30	Regulator at 2 miles 1,340 feet	6,240	...		1,000	30	
		6. Other cross drainage works.	31	Inlet at 1½ miles	3,400	...		700	31	
		Do.	32	Pipe aqueduct at 1 mile 52 chains	2,500	...		700	32	
		7. Bridges ...	33	Bridge No. 1 at 1 mile	3,750	...		2,000	33	
		Do. ...	34	Do. „ 2 at 1½ miles	5,800	...		1,000	34	
		Do. ...	35	Diversion of Cumbum road	4,030	...	80,000	1,000	35	P.M.G., No. 384 I., dated 22nd April 1897.
		Do. ...	36	Bridge at 5 miles 1,363 feet	2,730	...		1,000	36	
		12. Earthwork ...	37	Excavating Porumamilla supply channel ...	1,15,000	...		16,893	37	
		Do. ...	38	Cutting Kalsapad tank supply channel ...	4,150	...		4,000	38	
		14. Tanks and reservoirs.	39	Raising and strengthening the bund of Chintalapalli tank.	15,200	...		1,000	39	
		15. Miscellaneous...	40	Forming cattle ramps	1,050	...		1,000	40	
				Total, Sagilera Project ...	...	...	...	34,293		
				PALAR ANICUT SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				Reddicalam-Nedumpalli Condum Distributaries.						
				Reddivalam Branch Channel.						
North Arcot ...		4. Earthwork ...	41	Deepening and widening the Reddivalam supply channel.	569	...	13	556	41	
		3. Works ...	42	Proposed drop at 10,400 feet below head to Reddivalam channel.	330	...	...	330	42	
		Do. ...	43	Proposed under-tunnel at 6,260 feet below head to Reddivalam branch channel.	610	...	...	610	43	
				3. *Distributaries.*						
				Karivedu-Kolathur and Damal, &c., Project.						
				Kukundi Branch.						G.O., No. 147 I., dated 12th February 1897.
		2. Land ...	44	Compensation for land taken up for Kukundi branch channel.	5,150	...	...	5,150	44	
				Kolathur Branch.						
		4. Earthwork ...	45	Cutting Karivedu-Kolathur branch channel ...	1,430	...	...	1,430	45	
		3. Works ...	46	Proposed improvements to the existing head-sluice to Karivedu-Kolathur channel above drop No. 7 in the Govindavady channel.	170	...	...	170	46	
		Do. ...	47	Proposed drop at 5,000 feet below head in Karivedu and Kolathur channels.	280	...	6	274	47	

Detail of Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1897-98—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay		Grant for 1897-98.	Item No.	Remarks and references.
						To end of 1895-96.	Probable during 1896-97.			
					Rs.	Rs.	Rs.	Rs.		
				PALAR ANICUT SYSTEM—*cont.*						
				OPEN CAPITAL ACCOUNT—*cont.*						
				Reddivalam-Nedumpalli.						
				Condum Distributaries—cont.						
				Damal Branch.						
North Arcot—*cont.*	...	3. Works ...	48	Constructing the proposed regulating weir at the crossing of the Avalur supply channel with the Damal channel at 1 mile 7 furlongs below Karivedu tank weir.	280	...	239	41	48	
		4. Earthwork ...	49	Improving and strengthening the Avalur channel to supply Damal, &c., tanks.	1,250	...	547	703	49	
		3. Works ...	50	Improvements to the Avalur channel head sluice.	650	...	...	650	50	
		Do. ...	51	Providing a tower head to the high level sluice in Kolathur tank.	230	...	209	21	51	
				Thakkolam Branch.						
		3. Works ...	52	Providing screw gearing and shutters to the vented weir in Thakkolam channel.	418	...	...	418	52	
				Tennel Channel.						
		3. Works ...	53	Constructing an under-tunnel in the proposed channel from Tennel to Nelvoy tank.	1,390	...	...	1,390	53	
		Do. ...	54	Constructing drop No. 1 in the proposed channel from Tennel to Nelvoy tank.	290	...	166	124	54	G.O., No. 147 I., dated 12th February 1897.
		Do. ...	55	Constructing drop No. 2 in the proposed channel from Tennel to Nelvoy tank.	180	...	160	20	55	
		Do. ...	56	Constructing a byewash in the proposed channel from Tennel to Nelvoy tank.	260	...	236	24	56	
		4. Earthwork ...	57	Cutting a channel from Tennel to Nelvoy tank.	1,970	...	1,092	878	57	
				Kaveripauk Main Surplus Channel.						
		2. Land ...	58	Demarcating lands already taken up and to be acquired for improving and repairing the Kaveripauk surplus channel.	203	...	...	203	58	
				Kaveripauk Main Surplus Channel.						
				Kalapalampattu Branch Channel.						
		3. Works ...	59	Constructing a byewash and seven pot sluices in Thorayur channel.	130	...	61	69	59	
				Total, Pálár Anicut System ...	...	...	...	13,061		
				PELANDORAI ANICUT SYSTEM.						
				OPEN CAPITAL ACCOUNT.						
				1. *Head Works.*						
South Arcot ...	...	3. Works ...	60	Lowering the anicut crest and fitting it with 6 feet shutters counterweighted and with suitable gearing.	60,800	...	23,141	37,600	60	P.M.G., No. 551 I., dated 2nd July 1896.

Detail of the Budget Estimate for Original Works under Irrigation

Minor Works in the Madras Presidency for the year 1897–98—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895–96.	Outlay: Probable during 1896–97.	Grant, 1897–98.	Item No.	Remarks and references.
				PELANDORAI ANICUT SYSTEM—*cont.*						
				OPEN CAPITAL ACCOUNT—*cont.*						
				2. *Main Canals and Branches.*						
South Arcot—*cont.*	...	12. Earthwork ...	61	Improving Pelandorai main channel from head sluice up to 6th mile drop.	Rs. 10,350	Rs. ...	Rs. 5,000	Rs. 5,351	61	P.M.G., No. 1088 I., dated 18th December 1895.
				Total, Pelandorai Anicut System ...	...	...	...	42,951		
				LOWER COLEROON ANICUT SYSTEM.						
				CAPITAL ACCOUNT.						
				1. *Head Works.*						
Tanjore	...	3. Works ...	62	Improvements to the Lower Coleroon anicut ...	1,01,400	...	20,967	40,207	62	P.M.G., No. 273 I., dated 21st March 1896.
			63	Fitting screw gearing and iron shutters to the Lower Coleroon anicut system.	7,880	...	4,380	3,500	63	P.M.G., No. 535 I., dated 25th June 1896.
				4. *Drainages and Protective Works.*						
				Old Coleroon Drain.						
South Arcot ...	...	3. Works ...	64	Aqueduct and bridge extension	25,240	2,554	18,628	4,000	64	P.M.G., No. 835 I., dated 8th October 1892.
		4. Earthwork ...	65	Clearing, widening and forming banks	89,600	1,186	30,466	40,000	65	
		5. Miscellaneous.	66	Demarcation stones	300	...	...	2,000	66	
				Total, Lower Coleroon Anicut System ...	...	...	...	89,707		
				BUCKINGHAM CANAL.						
				CAPITAL ACCOUNT.						
				2. *Main Canals and Branches.*						
Buckingham Canal.	...	6. Other cross drainage works.	67	Improvements to canal from Pálár to Merkanam pipe inlet at 49/1 miles.	590	...	...	590	67	
			68	Inlet at ramp 46/3 miles	150	...	...	150	68	
		12. Earthwork ...	69	Do. at do. 51/3 miles	290	...	...	290	69	
			70	Earthwork clearance	15,100	...	12,700	2,400	70	
			71	Improvements to banks and berms	4,870	...	...	4,870	71	
		3. Regulators ...	72	Cutting basin	100	...	...	100	72	
			73	Improvements to junction canal from mile $\frac{1}{2}$ to $\frac{5}{4}$ culvert 12 feet span at Mylapur burial-ground.	2,260	...	...	2,260	73	
		6. Other cross drainage works.	74	Drain at 3rd mile	2,340	...	...	2,340	74	
			75	Scoop drain	11,690	...	...	11,690	75	
			76	Inlet, 40 feet long	550	...	...	550	76	
		9. Navigation ...	77	Scour sluice near Capper House Hotel	11,500	...	...	11,500	77	
		12. Earthwork ...	78	Constructing lock at Marine Villa	13,000	...	...	13,000	78	
			79	Improvements to junction canal	11,160	...	...	11,160	79	
			80	Incomplete works	...	...	...	8,978	80	
				Total, Buckingham Canal ...	...	...	...	69,878		

Detail of the Budget Estimate for Original Works under Irrigation

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.
				REVENUE ACCOUNT.
				Extensions and Improvements.
Kurnool ...	...	.....	81	Cumbum tank system ... ...
Coimbatore ...	...	.....	82	Thadapalli channel system ... ...
			83	Arkenkota channel system ... ...
North Arcot ...	...	.....	84	Pálár anicut system ... ...
				Deduct Old Maintenance Charges ...
				Net ...
Chingleput ...	...	.....	85	Pálár anicut system ... ...
				Total, Pálár Anicut System ...
North Arcot ...	...	.....	86	Poiney anicut system ... ...
			87	Cheyáru anicut system ... ...
Chingleput ...	...	.....	88	Chembrambakam tank system ... ...
				Deduct Old Maintenance Charges ...
				Net ...
			89	Madras water-supply and irrigation extension ...
				Deduct Old Maintenance Charges ...
				Net ...
			90	Valluru anicut system ... ...
South Arcot ...	...	.....	91	Tirukkóyilúr anicut system ... ...
			92	Mehamattur anicut system ... ...
			93	Vriddhachalam anicut system ... ...
			94	Shatiatope anicut system ... ...
			95	Pelandorai anicut system ... ...
				Deduct Old Maintenance Charges ...
				Net ...
			96	Lower Coleroon anicut system ... ...
Tanjore ...	...	.....	97	Do. do. ... ...
				Total, Lower Coleroon Anicut System ...

* These sums are provided under Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.

Minor Works in the Madras Presidency for the year 1897–98—continued.

Amount of estimate.	Outlay		Grant, 1897–98.	Item No.	Remarks and references.
	To end of 1895–96.	Probable during 1896–97.			
Rs.	Rs.	Rs.	Rs.		
...	...	50	500	81	
...	...	4,000	1,996	82	
...	...	700	1,000	83	
...	...	9,014	4,000	84	
...	...	* 178	* 178		
...	...	8,836	3,822		
...	...	492	3,280	85	
...	...	9,328	7,102		
...	...	2,000	1,000	86	
...	...	3,500	3,000	87	
...	...	1,200	200	88	
...	...	* 2,283	* 2,283		
...	...	— 1,083	— 2,083		
...	...	319	...	89	
...	...	* 3,600	* 3,600		
...	...	— 3,281	— 3,600		
...	...	132	2,701	90	
...	...	2,000	3,002	91	
...	...	802	500	92	
...	...	1,504	496	93	
...	...	2,194	2,000	94	
...	...	2,505	497	95	
...	...	* 59	* 59		
...	...	2,446	438		
...	...	1,600	2,000	96	
...	...	1,800	1,502	97	
...	...	3,400	3,502		

GOVERNMENT OF MADRAS.

CHARGES—cont.

Part II—cont.

Detail of the Budget Estimate for Original Works under Irrigation *Minor Works in the Madras Presidency for the year* 1897-98—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant, 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				REVENUE ACCOUNT—*cont.*						
				Extensions and Improvements—cont.						
Tinnevelly	...	.....	98	Maradur anicut system	...	...	...	993	98	
Buckingham Canal.	...	.....	99	Buckingham canal	...	...	3,030	2,366	99	
				Total, Extensions and Improvements ...	...	...	...	24,913		
				Minor Works for which neither Capital nor Revenue Accounts are kept, P. W. D.						
				Ordinary Major Original Works.						
Godávari Western.	...	.....	100	Diversion of Yerracalva and construction of masonry dams across it and Gudapalli channel.	8,210	1,293	2,000	5,000	100	P.M.G., No. 13 I., dated 10th January 1895.
Kistna North.	...	.....	101	Macherla tank	26,900	10,342	15,719	500	101	,, ,, 964 I. ,, 6th November 1893.
			102	Ipur do.	31,000	...	10,000	12,000	102	,, ,, 1031 I. ,, 23rd ,, ,,
			103	Jonapad do.	26,630	...	9,000	10,712	103	,, ,, 148 I. ,, 16th February 1895.
Nellore	...	.....	104	Mopaud tank improvements	23,800	5,829	14,000	4,000	104	,, ,, 57 I. ,, 18th January 1896.
			105	Budamgunta	2,780	...	...	2,500	105	,, ,, 856 I. ,, 22nd October 1896.
Bellary ...	...	.....	106	Excavating a channel and constructing five syphon sluices for Gundiganoor tank.	3,010	...	1,000	2,010	106	,, ,, 467 I. ,, 1st June 1896.
			107	Improving Royal cheruvu tank	10,300	...	4,000	6,300	107	,, ,, 224 I. ,, 4th March 1896.
Kurnool	...	.....	108	Pedda and Chinna Mallalammah tank of Ramapuram.	4,000	2,051	1,000	1,000	108	,, ,, 5 I. ,, 3rd January 1896.
Coimbatore	...	.....	109	Constructing an aqueduct and bridge in lieu of Pungaliyur outlet on the Chithrachavady channel.	4,870	...	2,000	2,870	109	,, ,, 513 I. ,, 16th June 1896.
South Arcot	...	.....	110	Cutting a channel from Ponniar river to irrigate lands in Tirukandesweram and other villages.	14,730	1,996	5,545	2,700	110	,, ,, 232 I. ,, 9th March 1895.
Trichinopoly	...	.....	111	Reconstructing bridge over road No. XX over Ponnery channel.	3,360	...	...	3,360	111	,, ,, 697 I. ,, 17th August 1896.
			112	Improving Kothamangalam tank	4,060	...	...	4,060	112	,, ,, 996 I. ,, 25th November 1896.
Madura ...	...	.....	113	Constructing an under-tunnel at 3,200 feet from the head of Seeliampatti channel.	2,710	...	500	710	113	,, ,, 50 I. ,, 17th January 1896.
Tinnevelly	...	.....	114	Improving Vadukachimathal tank and channel.	3,820	...	...	1,820	114	,, ,, 615 I. ,, 3rd August 1895.
				Total ...	...	...	...	59,542		
			115	Minor original works	...	...	...	1,29,296	115	
			116	Old maintenance charges for works for which Capital and Revenue Accounts are kept.	...	...	...	10,381	116	
				Total, Ordinary Works ...	...	...	...	1,99,219		
			117	Minor Works, Revenue Department, Minor Original works.	...	...	...	28,112	117	

Detail of the Budget Estimate for Original Works under Irrigation and Minor Works in the Madras Presidency for the year 1897-98—continued.

Executive division.	Locality.	Sub-division of expenditure.	Item No.	Detail of works.	Amount of estimate.	Outlay: To end of 1895-96.	Outlay: Probable during 1896-97.	Grant, 1897-98.	Item No.	Remarks and references.
					Rs.	Rs.	Rs.	Rs.		
				Agricultural Works.						
				Major Original Works.						
Gódávari Western.	...	.....	118	Raising the Vasista right bank from head to Chinchinada.	72,800	15,826	35,596	21,378	118	P.M.G., No. 56 I., dated 19th January 1893.
Kistna Eastern ...	...	.....	119	Raising the Kistna river left bank below the anicut.	78,300	23,498	10,000	35,892	119	,, ,, 278 I. ,, 28th March 1893.
Tanjore ...	...	.....	120	Raising Mudicondanar both banks from road No. 15 to eastern limit of Kumbakónam bridge.	5,150	...	3,000	2,150	120	,, ,, 402 I. ,, 7th May 1896.
				Total ...	...	...	...	59,420		
			121	Minor original works	...	...	...	17,700	121	
				Total, Agricultural Works ...	...	...	...	77,120		
				LOCAL IRRIGATION CESS FUND.						
				43. Minor Works and Navigation.						
				Minor Works for which neither Capital nor Revenue Accounts are kept.						
Salem ...	...	.....	122	Minor original works	...	...	...	5,000	122	
Trichinopoly ...	...	.....	123	Do.	...	...	...	2,000	123	
				Total ...	...	...	...	7,000		

GOVERNMENT OF MADRAS.

CHARGES.

Part II—continued.

General Abstract of the Grant provided for above.

—	Local Irrigation Cess Fund.	Provincial Funds.	Total.
	Rs.	Rs.	Rs.
IRRIGATION.			
43. MINOR WORKS AND NAVIGATION.			
WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.			
PROVINCIAL.			
CAPITAL.			
Kurnool-Cuddapah Canal	...	2,838	2,838
Munnyeru Project	...	72,870	72,870
Sagiléru Project	...	34,293	34,293
Pálár Anicut System	...	13,061	13,061
Pelandorai Anicut System	...	42,951	42,951
Lower Coleroon Anicut System	...	89,707	89,707
Buckingham Canal	...	69,878	69,878
Total ...	...	3,25,598	3,25,598
REVENUE.			
Cumbum Tank System	...	500	500
Thadapalli Channel System	...	1,996	1,996
Arkenkotta do.	...	1,000	1,000
Pálár Anicut System	...	7,102	7,102
Poiney do.	...	1,000	1,000
Cheyáru do.	...	3,000	3,000
Chembrambakam Tank	...	— 2,083	— 2,083
Madras Water-supply and Irrigation Extension	...	— 3,600	— 3,600
Valluru Anicut	...	2,701	2,701
Tirukkóyilúr Anicut System	...	3,002	3,002
Mehamattur do.	...	500	500
Vriddhachalam do.	...	496	496
Shatiatope do.	...	2,000	2,000
Pelandorai do.	...	438	438
Lower Coleroon do.	...	3,502	3,502
Marudur Anicut System	...	993	993
Buckingham Canal	...	2,366	2,366
Total ...	...	24,913	24,913
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept, P.W.D.—			
Major	...	59,542	59,542
Minor	...	1,29,296	1,29,296
Old Maintenance charges for works for which Capital and Revenue Accounts are kept	...	10,381	10,381
"Minor Works, Revenue Department," Minor Original Works ...	...	28,112	28,112
Total ...	...	2,27,331	2,27,331

GOVERNMENT OF MADRAS.

CHARGES.

Part II—continued.

General Abstract of the Grant provided for above—continued.

—	Local Irrigation Cess Fund.	Provincial Funds.	Total.
	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION—cont.			
PROVINCIAL—continued.			
Agricultural Works.			
Works for which neither Capital nor Revenue Accounts are kept.			
Major works	...	59,420	59,420
Minor works	...	17,700	17,700
Total ...	...	77,120	77,120
LOCAL IRRIGATION CESS FUND.			
43. MINOR WORKS AND NAVIGATION.			
Minor works for which neither Capital nor Revenue Accounts are kept, P.W.D.—			
Minor works	7,000	...	7,000
Total ...	7,000	...	7,000

GOVERNMENT OF MADRAS.

CHARGES.

Part III.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Minor Works in the Madras Presidency for the year 1897–98.

Executive division.	—	Estimate, 1897–98. Amount.	Estimate, 1897–98. Total.	Estimate, 1896–97. Amount.	Estimate, 1896–97. Total.
	IRRIGATION.	Rs.	Rs.	Rs.	Rs.
	43. MINOR WORKS AND NAVIGATION.				
	Minor Works for which Capital and Revenue Accounts are kept.				
	Provincial.				
	Maintenance and Repairs.				
Ganjám ...	Ganjám Minor Rivers System	10,000	10,000	3,000	3,000
Kurnool ...	Cumbum Tank System	1,500	1,500	1,500	1,500
Coimbatore ...	Thadapalli Channel System	2,900	2,900	2,989	2,989
Do. ...	Arkenkotta Channel System	902	902	996	996
Do. ...	Kalingaroyen Channel System	1,901	1,901	1,998	1,998
North Arcot ...	Pálár Anicut System—				
	Head Works			...	
	Kávéripak Channel				
	Govindavádi Channel				
	Mahendravadi Channel				
	Dusi channel	20,004		24,800	
	Tennampettu Channel				
	Chuckramallur Channel				
	Reserve for incomplete works				
Chingleput ...	Kambakal Channel	8,400		8,400	
	Total ...	28,404		33,200	
	Deduct Old Maintenance Charges ...	*2,909	25,495	*2,909	30,291
North Arcot ...	Poiney Anicut System	9,000	9,000	8,000	8,000
Do. ...	Cheyáru Anicut System	12,000	12,000	10,000	10,000
Chingleput ...	Chembrambakam Tank System	3,005		3,000	
	Deduct Old Maintenance Charges ...	*3,097	— 92	*3,097	— 97
Do. ...	Madras Water-supply and Irrigation Extension...	2,499		2,501	
	Deduct Old Maintenance Charges ...	*200	2,299	*200	2,301
Do. ...	Vallur Anicut System	500	500	500	500
South Arcot ...	Shatiatope Anicut System	10,000	10,000	10,000	10,000
Do. ...	Pelandorai Anicut System	3,000		3,000	
	Deduct Old Maintenance Charges ...	*58	2,942	*58	2,942

"Min... are provided under Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.

GOVERNMENT OF MADRAS.

CHARGES.

Part III—continued.

Detail of the Budget Estimate for Maintenance and Repairs of Irrigation Minor Works in the Madras Presidency for the year 1897–98—continued.

Executive division.	—	Estimate, 1897–98. Amount.	Estimate, 1897–98. Total.	Estimate, 1896–97. Amount.	Estimate, 1896–97. Total.
	IRRIGATION—*continued.*	Rs.	Rs.	Rs.	Rs.
	43. MINOR WORKS AND NAVIGATION— continued.				
	Minor Works for which Capital and Revenue Accounts are kept—continued.				
	Provincial—cont.				
	Maintenance and Repairs—continued.				
South Arcot ...	Vriddhachalam Anicut System	2,500	2,500	2,500	2,500
Do. ...	Mehamattur Anicut System	1,000	1,000	1,000	1,000
Do. ...	Tirukkóyilúr Anicut System	8,000	8,000	7,994	7,994
Do. ...	Lower Coleroon Anicut System	16,000		16,000	
Tanjore ...	Do. do.	3,000	19,000	3,000	19,000
Trichinopoly ...	Nandiar channel	7,610	7,610	606	606
Tinnevelly ...	Maradur Anicut System	13,000	13,000	8,004	8,004
Ganjám ...	Chilka Lake Canal	301	301	301	301
Negapatam ...	Védáranniyam Canal	5,065	5,065	3,504	3,504
Buckingham Canal.	Buckingham Canal—				
	262 miles	35,370		35,370	
	M. Maintenance establishment	6,000		6,000	
	Repairs to masonry works	7,000		8,000	
	Unforeseen and sundry items	4,030		3,910	
	Payment to the Madras Municipality being the amount of lease for Trevelyan wharf ...	1,600		1,600	
			54,000		54,880
	Total ...	...	1,89,823	...	1,72,209
	Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D., Ordinary works	3,70,000		3,47,000	
	Old Maintenance charges	1,42,850		1,42,850	
	Tank Restoration works to be executed by ordinary divisions	3,91,968	9,04,818	5,44,201	10,34,051
	Agricultural Works—				
	Repairs	3,77,213	3,77,213	3,74,389	3,74,389
	Total ...	...	14,71,854	...	15,80,649
	LOCAL IRRIGATION CESS FUND.				
	43. MINOR WORKS AND NAVIGATION.				
	Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.				
Salem ...	Cauvery channels in Salem district	2,000	2,000	2,000	2,000
Trichinopoly ...	Maradur channel	...		3,000	3,000
	Total ...	...	2,000	...	5,000

GOVERNMENT OF MADRAS.

CHARGES.

Part IV.

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

Particulars.	Budget Estimate for 1897–98. Per mensem.	Per annum.	Total.	Revised Estimate for 1896–97.
	Rs.	Rs.	Rs.	Rs.
IRRIGATION.				
43. Minor Works and Navigation.				
PROVINCIAL.				
Grant for works and repairs	...	...	21,26,816	28,48,651
Deduct items on which no charge for establishment is admissible—				
Grant for land compensation	...	...	16,353	56,156
Net Grant for Works and Repairs ...	...	...	21,10,463	27,92,495
A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs.	...	...	4,85,407	6,42,274
Estimate of Direct Revenue	...	...	1,65,000	1,65,000
B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	...	...	16,500	16,500
Revenue due to old Irrigation under Major Productive Works.	...	...	39,29,900	38,88,000
C. Share of the Public Works establishment at 6 per cent. on Revenue.	...	...	2,35,794	2,33,280
Total, A + B + C ...	...	...	7,37,701	8,92,054
Total, Establishment Charges ...	...	...	7,37,701	8,92,054

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A.

Detail of estimated charges for establishment by systems of canals for 1897–98.

—	Percentage on the Grant for Works and Repairs. Grant for Works and Repairs.	23 per cent.	Percentage on the Direct Revenue. Direct Revenue.	10 per cent.	Percentage on the Indirect Revenue. Indirect Revenue.	6 per cent.	Cost of Establishment actually employed.	Total Charges for Establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IRRIGATION.								
43. MINOR WORKS AND NAVIGATION.								
Provincial.								
Minor Works for which Capital and Revenue Accounts are kept.								
Capital.								
Kurnool-Cuddapah Canal	2,838	652	...	...	...	...	...	652
Munnyeru Project	72,870	16,760	...	...	...	...	...	16,760
Sagiléru Project	34,293	7,887	...	...	...	...	...	7,887
Pálár Anicut System	7,708	1,773	...	...	...	...	...	1,773
Pelandorai Anicut System	42,951	9,879	...	...	...	...	...	9,879
Lower Coleroon Anicut System ...	89,707	20,633	...	...	...	...	...	20,633
Buckingham Canal	69,878	16,072	...	...	...	...	...	16,072
Total ...	3,20,245	73,656	...	...	...	...	...	73,656
Revenue.								
Ganjám Minor Rivers System ...	10,000	2,300	...	...	...	...	...	2,300
Cumbum Tank System	2,000	460	...	...	...	...	...	460
Thadapalli Channel System	4,896	1,126	80	8	...	...	...	1,134
Arkenkotta do.	1,902	438	...	...	...	...	...	438
Kalingaroyen do.	1,901	437	120	12	...	...	...	449
Pálár Anicut System	32,597	7,497	1,300	130	...	...	...	7,627
Poiney do.	10,000	2,300	500	50	...	...	...	2,350
Cheyáru do.	15,000	3,450	200	20	...	...	...	3,470
Chembrambakam Tank System ...	— 2,175	— 500	140	14	...	...	...	— 486
Madras Water-supply and Irrigation Extension	— 1,301	— 299	12,500	1,250	...	...	...	951
Vallur Anicut System	3,201	737	20	2	...	...	...	739
Tirukkóyilúr do.	11,002	2,531	570	57	...	...	...	2,588
Mehamattur do.	1,500	345	50	5	...	...	...	350
Vriddháchalam do.	2,996	689	50	5	...	...	...	694
Shatiatope do.	12,000	2,760	300	30	...	...	...	2,790
Pelandorai do.	3,380	777	250	25	...	...	...	802
Lower Coleroon do.	22,502	5,175	1,030	103	...	...	...	5,278
Nundiar Channel Extension ...	7,610	1,750	...	...	...	...	...	1,750
Maradur do.	13,993	3,218	290	29	...	...	...	3,247
Chilka Lake Canal	301	69	...	...	...	...	...	69
Buckingham Canal	56,366	12,964	1,11,400	11,140	...	...	...	24,104
Védáranniyam Canal	5,065	1,165	1,200	120	...	...	...	1,285
Total ...	2,14,736	49,389	1,30,000	13,000	...	...	...	62,389

GOVERNMENT OF MADRAS.

CHARGES.

Part IV-A—continued.

Detail of estimated charges for establishment by systems of canals for 1897–98—continued.

—	Percentage on the Grant for Works and Repairs.		Percentage on the Direct Revenue.		Percentage on the Indirect Revenue.		Cost of Establishment actually employed.	Total Charges for Establishment.
	Grant for Works and Repairs.	23 per cent.	Direct Revenue.	10 per cent.	Indirect Revenue.	6 per cent.		
IRRIGATION—continued.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION—continued.								
Provincial—continued.								
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.								
Ordinary Works	5,58,838	1,28,533	10,000	1,000	...	...	...	1,29,533
Tank Restoration Works	3,91,968	90,153	...	...	...	...	...	90,153
Old Maintenance charges	1,53,231	35,243	...	...	39,29,900	2,35,794	...	2,71,037
Minor Works, Revenue Department...	28,112	6,466	...	...	...	...	...	6,466
Total ...	11,32,149	2,60,395	10,000	1,000	39,29,900	2,35,794	...	4,97,189
Agricultural Works.								
Works for which neither Capital nor Revenue Accounts are kept ...	4,43,333	1,01,967	25,000	2,500	...	...	...	1,04,467
Total, Provincial ...	21,10,463	4,85,407	1,65,000	16,500	39,29,900	2,35,794	...	7,37,701

GOVERNMENT OF MADRAS.

CHARGES.

Part V.

Detail of the Budget Estimate for Tools and Plant under Irrigation Minor Works in the Madras Presidency for the year 1897–98.

—	Special Tools and Plant.	General Tools and Plant.	Total.	Grant for Works and Repairs.
IRRIGATION.	Rs.	Rs.	Rs.	Rs.
43. MINOR WORKS AND NAVIGATION.				
Provincial.				
Minor Works for which Capital and Revenue Accounts are kept.				
Capital.				
Pálár Anicut System	6	...	6	...
Munnyeru project	400	...	400	...
Buckingham Canal	4,000	...	4,000	...
Total ...	4,406	...	4,406	...
Revenue.				
Pálár Anicut System	...	...	...	...
Deduct Old Maintenance charges ...	4	...	4	...
Net ...	— 4	...	— 4	...
Chembrambakam Tank System	...	...	...	...
Deduct Old Maintenance charges ...	109	...	109	...
Net ...	— 109	...	— 109	...
Madras Water-supply and Irrigation Extension	...	...	...	...
Deduct Old Maintenance charges ...	10	...	10	...
Net ...	— 10	...	— 10	...
Pelandorai Anicut System	...	...	...	...
Deduct Old Maintenance charges ...	2	...	2	...
Net ...	— 2	...	— 2	...
Buckingham Canal	3,000	...	3,000	...
Total ...	2,875	...	2,875	...
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.				
Ordinary Works	...	8,383	8,383	5,58,838
Tank Restoration Scheme	...	5,879	5,879	3,91,968
Old Maintenance charges	1,868	...	1,868	1,53,231
Minor Works, Revenue Department	...	422	422	28,112
Agricultural Works.				
Works for which neither Capital nor Revenue Accounts are kept	...	6,650	6,650	4,43,333
Total ...	1,868	21,334	23,202	15,75,482
Total, Provincial ..	9,149	21,334	30,483	...

GOVERNMENT OF MADRAS.

CHARGES.

Part VI.

Abstract of the Probable Increase or Decrease in the Suspense Accounts of Irrigation Minor Works in the Madras Presidency for the year 1897-98—Nil.

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

GOVERNMENT OF MADRAS.

CHARGES.

Schedule A—Showing the distribution of the grants for Minor Original Works and Repairs for 1897-98.

	Irrigation Revenue.	Minor Original Works (under Rs. 2,500 each).	Repairs.
		1897-98.	1897-98.
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.	Rs.	Rs.	Rs.
Old Maintenance charges—			
Pennéru Anicut System	...	3,564	13,860
Sangam do. do.	...	345	11,884
Cauvery Delta do.	...	...	1,05,634
Srívaikuntam Anicut System	...	352	5,208
Chembrambakam Tank	...	2,283	3,097
Pálár Anicut System	...	178	2,909
Pelandorai Anicut System	...	59	58
Madras Water-supply and Irrigation Extension Project ...	...	3,600	200
Total ...	...	10,381	1,42,850
Minor Works, Public Works Department, Ordinary—			
Divisions—			
Ganjám	98,948	5,000	12,000
Vizagapatam	1,62,862	6,000	9,500
Gódávari Eastern	97,089	8,000	17,500
Do. Central		...	...
Do. Western		2,000	4,000
Kistna Eastern	54,271	...	6,000
Do. Northern		1,500	4,000
Do. Western		...	...
Nellore	2,96,364	15,500	26,000
Cuddapah	2,91,144	10,000	30,000
Kurnool	84,959	3,000	10,000
Bellary	3,74,831	5,000	30,000
West Coast	...	...	2,000
Coimbatore	3,23,203	6,000	12,000
Salem	1,50,390	4,000	12,000
North Arcot	2,43,075	15,000	25,000
Chingleput	6,22,544	10,000	35,000
South Arcot	3,81,293	10,000	35,000
Tanjore	45,162	1,000	2,000
Negapatam	...	...	...
Trichinopoly	4,43,278	10,000	25,000
Madura	3,50,035	6,000	37,000
Tinnevelly	7,60,651	6,000	36,000
Total ...	...	1,24,000	3,70,000
Reserve ...	...	5,296	...
Total ...	...	1,29,296	3,70,000
Minor Works, Revenue Department, Original Works—Reserve ...	...	28,112	...

GOVERNMENT OF MADRAS.

CHARGES.

Schedule A—Showing the distribution of the grants for Minor Original Works and Repairs for 1897–98—continued.

	Irrigation Revenue.	Minor Original Works (under Rs. 2,500 each).	Repairs.
		1897–98.	1897–98.
	Rs.	Rs.	Rs.
Tank Restoration Works.			
Execution—			
Divisions—			
Gódávari Eastern	...	...	6,500
Kistna Northern	...	...	20,000
Salem	...	...	50,000
North Arcot	...	...	40,000
Chingleput	...	...	75,000
South Arcot	...	...	50,468
Negapatam	...	...	30,000
Madura	...	...	70,000
Tinnevelly	...	...	50,000
Total	...	...	3,91,968
Agricultural Works.			
Divisions—			
Ganjám	...	3,000	6,000
Vizagapatam	...	300	2,500
Gódávari Eastern	...	...	20,000
Do. Central	...	1,000	65,000
Do. Western	...	3,000	16,000
Kistna Eastern	...	...	9,000
Do. Northern	...	...	11,588
Do. Western	...	...	1,00,000
Nellore	...	...	6,500
Buckingham Canal	...	...	7,000
Cuddapah	...	...	4,000
Coimbatore	...	3,500	6,500
Salem	...	...	625
Chingleput	...	500	1,500
South Arcot	...	400	6,000
Tanjore	...	2,000	60,000
Negapatam	...	2,000	20,000
Trichinopoly	...	2,000	25,000
Tinnevelly	...	...	10,000
Total	...	17,700	3,77,213