GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

Read—the following papers :—

From Captain C. C. RAWSON, R.E., Executive Engineer, in charge I Circle, to the Chief Engineer for Irrigation, dated Dowlaishweram, 9th May 1884, No. 72 G.N.

In forwarding, herewith, copy of a letter, No. 18, dated 22nd April 1884, from the Executive Engineer, Ganjam division, I have the honor to inform you that the cost of deepening the Chilka Lake canal to 6·50 amounts to Rs. 74,600 ; and I request orders as to whether it will not be sufficient if it be cleared to 4·50. The cost will then be approximately Rs. 37,000.

Enclosure.

From C. NORFOR, Esq., Executive Engineer, Ganjam Division, to the Superintending Engineer, I Circle, dated Turlada, 22nd April 1884, No. 18 S.E.

I have the honor to forward levels of the Chilka Lake canal, showing depth of clearance, &c., together with an estimate of its cost.

The amount of money to be spent in it is *very large*. I would therefore suggest that the bed level of the canal be fixed at M.S.L.—4·50.

The bed fixed upon, viz., M.S.L. 6·50, was done by the Chief Engineer for Irrigation and Mr. Walch.

Office note by the Chief Engineer for Irrigation, dated 21st May 1884, No. 173.
" " Public Works Secretary " 27th May " " 186 E.
" " Chief Secretary " 5th August " " 1754.

Order—dated 6th August 1884, No. 710 I./A, Public Works.

The Superintending Engineer, I Circle, will expedite the submission of the estimate for deepening the Chilka Lake canal to M.S.L.—6·50 feet, with a bottom width of 20 feet and side slopes 2 to 1, as ordered to be prepared by the Chief Engineer for Irrigation ; and will meanwhile arrange for an expenditure on the work, during the current official year, of a sum of Rs. 74,600, which will be made available in the Financial Department as soon as the estimate is ready.

(True Extract.)

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

To the Superintending Engineer, I Circle.
" Chief Engineer for Irrigation.
" Financial Department.

Exd. E. Fernandez.
Spare Copies

IRRIGATION.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated August, 6th.

Recd. *Encl.*

G.O., 6th Aug. 1884, No. 710 I. A

AUGUST.

Chilka Lake Canal

Superintending Engineer, I Circle, asked to arrange for an expenditure of Rs. 74,600 on the deepening of the — during current year and to expedite the estimate.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 2nd August 1884, No. 362 E.W.

With reference to paragraph 2 of G.O., No. 1625 W., of 27th June 1884, I have the honor to request you will be good enough to obtain an allotment of Rs. 8,700 in addition to the current year's grant of Rs. 5,600 for constructing quarters for 38 sappers and 2 native officers at Ootacamund.

2. The Executive Engineer reports that the full amount of the estimate (Rs. 14,300) for the quarters will be utilised in the current official year.

G.O., dated 13th August 1884, No. 1874, Financial.

Order—dated 13th August 1884, No. 1874, Financial.

The Accountant-General is authorised to place the sum of Rs. 3,25,000 at the disposal of the Public Works Department.

(True Extract.)

(Signed) E. F. WEBSTER,
Chief Secretary.

To the Public Works Department.

ORDER—dated 20th August 1884, No. 2040 W., Public Works.

An additional grant of Rs. 3,25,000 for Provincial works having been assigned in the proceedings of the Financial Department recorded above, the following appropriations of funds to duly sanctioned works are now made :—

Statement A.

Name of Work.	Amount of Estimate.	Past Expenditure.	Allotment already made.	Reference to G.O.	Allotment now made.
	Rs.	Rs.	Rs.	....	Rs. 10,000
Wellington church	38,161	..	..		
Floating latrine at Chepâk	6,910	..	..	G.O., No. 1824 W., dated 28th July 1884.	6,910
				....	12,000
Purchase of house for extension of brickfield, Madras.	..	..	..		
Bridge near Charing Cross, Ootacamund ..	9,300	..	..	G.O., No. 1183 W./A, dated 9th May 1884.	9,300
Residence for Superintending Engineer at Dowlaishweram.	17,300	..	8,000	G.O., No. 1911 W., dated 6th August 1884.	9,300
Additional treasure strong-room for the taluk cutcherry at Anantapur.	800	..	..	G.O., No. 1228 W., dated 14th May 1884.	800
Purchase of bungalow on Orr's Hill at Bezvâda, Kistna district.	4,000	..	..	G.O., No. 1753 W., dated 17th July 1884.	4,000
New record racks for the Revenue Board Office..	5,310	..	..	G.O., No. 1712 W., dated 10th July 1884.	5,310
Amir Mahal, Madras, Improvements to ..	74,881	61,490	10,000	G.O., No. 899 W., dated 2nd April 1884.	3,391
Improvements to the residence of the Superintendent of the Central Jail and construction of a police guard-room at the district jail, Rajahmundry, Godâvari district.	5,760	..	4,520	G.O., No. 934 W., dated 5th April 1884.	1,240

Statement A.—cont.

Name of Work.	Amount of Estimate.	Past Expenditure.	Allotment already made.	Reference to G.O.	Allotment now made.
	RS.	RS.	RS.		RS.
Sub-Collector's cutcherry at Madanapalle, Cuddapah district.	14,895	4,759	8,000	Budget Item No. 15, Part A.	2,136
Converting the granary at Hospet, Bellary district, into an inspection lodge.	997	..	..	G.O., No. 833 W., dated 27th March 1884.	997
Converting the post office at Gopálpur into godowns for bonded spirits and adding an upper-story for an office.	4,700	..	..	G.O., No. 3233 W., dated 14th November 1883.	4,700
Public offices at Ponáni, Malabar district ..	63,960	..	..	Budget Item No. 5, Part B G.O., No. 1298 W., dated 23rd May 1884.	20,000
Office buildings for Eastern and Head Works sub-divisions, Godávari district.	5,725	..	..	G.O., No. 1454 W., dated 11th June 1884.	5,725
Sea custom house at Malpi, South Canara district.	6,560	..	..	G.O., No. 109 W., dated 14th January 1884.	6,560
Do. do. at Tanúr, Malabar district ..	2,960	..	..	G.O., No. 386 W., dated 13th February 1884.	2,960
Bazaar drainage scheme, Ootacamund ..	2,00,935	77,819	14,200	G.O., No. 1112 W., dated 5th May 1884.	10,000
Lines and quarters for 38 sappers and 2 native officers at Ootacamund.	14,300	..	5,600	G.O., No. 1625 W., dated 27th June 1884.	8,700
District munsif's court at Kulitalai, Trichinopoly district.	16,100	14,110	1,500	G.O., No. 2848 W., dated 30th October 1882.	490
New ophthalmic hospital at Madras	97,663	..	20,000	G.O., No. 693 W., dated 14th March 1884.	20,000
Public buildings at Anantapur	85,875	9,000	60,500	Budget Item Nos. 17 and 18, part A.	10,000
					1,54,519
Chilka canal—Ganjam district	..	..	..	G.O., No. $\frac{710\ I.}{A}$ dated 6th August 1884.	74,600
Total ..	..	..	..	....	2,29,119

Superintending Engineers will arrange for utilising, within the official year, the sums now made available.

The following works, considered urgent, will, as far as practicable, be provided with allotments on estimates being framed and sanctioned. Superintending Engineers should accordingly arrange for submission of estimates as soon as possible :—

Statement B.

Name of Work.

Improvement of Mettupálaiyam-Gúdalúr road within municipal limits.
Head Assistant Collector's cutcherry and house at Gúdúr, Nellore district.
Do. do. do. at Nandyál, Kurnool district.
Collector's house at Chatrapur, Ganjam district.
Taluk cutcherry and munsif's court at Kumbakónam, Tanjore district.
School of Arts, Madras.
Collector's cutcherry at Calicut.
Do. do. at Nellore.
Sub-magistrate's cutcherry and sub-jail at Arkónam, North Arcot district.
Taluk cutcherry at Nandyál, Kurnool district.

No allotments can be promised for works which may remain unsanctioned till late in the year. Every effort should therefore be made for prompt submission of the requisite estimates.

The balance of funds available, Rs. 95,881, is added to the Provincial reserve.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Examiner Public Works Accounts.
" Financial Department.

" Revenue Dept.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated August, 20th.

Recd. *Encl.*

G.O.,20th Aug. 1884, No. 2040 W.

AUGUST.

Funds

Appropriations made, with remarks, from the additional grant of Rs. 3,25,000 assigned by the Financial Department for Provincial works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From the Superintending Engineer, I Circle, dated 18th December 1884, No. 490 G.N.
" " " I " " 25th " " " 2312 "

ORDER—dated 8th January 1885, No. 57 W., Public Works.

The following sums are resumed and added to the Provincial reserve with Government :—

	RS.
1. Constructing sub-registrar's office at Razole...	1,400
2. Deepening the Chilka lake canal	19,600
Total ...	21,000

2. The following appropriations are sanctioned from the reserve :—

	RS.
1. Restoration works in connection with the Red Hills and Cholaveram tanks (including percentage charges for establishment, and tools and plant)	3,000
2. Additions to Zenana, Amir Mahal	1,638
3. Sinking a well in Bruce Pettah, Bellary	1,000
4. Repairs, Civil Buildings, Consulting Architect's Division (for repairing Amir Mahal)	4,614
Total ...	10,252

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, I Circle.
" " " III "
" " " VI "
" Consulting Architect to Government.
" Superintendent of Works, Tank Maintenance Scheme.
" Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Financial Department.
" Political "
" Judicial "
" Supy. Engineer V Circle

Exd. E. Fernandez.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated January, 8th.

Recd. *Encl.*

G.O., 8th Jan. 1885, No. 57 W.

JANUARY.

Funds

Certain surrenders of — resumed, and allotments made.

PRELIMINARY ISSUE.

PRODUCTIVE PUBLIC WORKS, IRRIGATION AND NAVIGATION. **MADRAS PRESIDENCY.**

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET ESTIMATE

OF

PRODUCTIVE PUBLIC WORKS, IRRIGATION AND NAVIGATION,

IN THE

MADRAS PRESIDENCY,

FOR THE YEAR

1885-86.

5th January 1885.

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

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GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE IMPERIAL REVENUE FROM IRRIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1885 TO 31ST MARCH 1886.

—	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Realization, 1883-84.
1	2	3	4	5
G. REVENUE FROM PRODUCTIVE PUBLIC WORKS. —REVENUE ACCOUNT.	Rs.	Rs.	Rs.	Rs.
XXVII. IRRIGATION AND NAVIGATION—DIRECT RECEIPTS.				
Imperial.				
Godávari Delta System	83,000	84,000	79,000	75,602
Kistna Delta System	25,500	25,200	50,200	33,560
Pennér Anicut System	260	260	200	255
Cauvery Delta System	8,900	8,500	8,000	11,813
Srívaikuntham Anicut System	1,500	1,500	2,000	2,083
Kurnool Canal	10,000	6,470	10,000	—* 20,157
Total ...	1,29,160	1,25,930	1,49,400	1,03,156

* Excluding water rates.

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE PORTION OF LAND REVENUE DUE TO IRRIGATION UNDER PRODUCTIVE PUBLIC WORKS.

—	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Realization, 1883-84.
1	2	3	4	5
G. REVENUE FROM PRODUCTIVE PUBLIC WORKS —REVENUE ACCOUNT.	Rs.	Rs.	Rs.	Rs.
XXVIII. PORTION OF LAND REVENUE DUE TO IRRIGATION.				
Imperial.				
Godávari Delta—				
Irrigation Revenue	16,50,000	16,50,000	16,20,000	16,29,882
Deduct Revenue due to old Irrigation	1,25,000	1,25,000	1,30,000	1,23,634
Revenue due to the System	15,25,000	15,25,000	14,90,000	15,06,248
Share of enhanced Land Revenue	1,45,000	1,45,000	1,50,000	1,45,281
Total ..	16,70,000	16,70,000	16,40,000	16,51,529
Deduct Collection Charges in the Civil Department	83,500	83,500	1,18,080	1,18,910
Net Revenue ...	15,86,500	15,86,500	15,21,920	15,32,619
Kistna Delta—				
Irrigation Revenue	9,50,000	9,50,000	9,00,000	9,72,379
Deduct Revenue due to old Irrigation	70,000	70,000	76,000	73,302
Revenue due to the System	8,80,000	8,80,000	8,24,000	8,99,077
Share of enhanced Land Revenue	1,25,000	1,25,000	1,30,000	1,23,867
Total ...	10,05,000	10,05,000	9,54,000	10,22,944
Deduct Collection Charges in the Civil Department	50,250	50,250	68,688	73,652
Net Revenue ...	9,54,750	9,54,750	8,85,312	9,49,292
Pennér Anicut—				
Irrigation Revenue	2,30,000	2,30,000	2,30,000	2,34,547
Deduct Revenue due to old Irrigation	1,20,000	1,20,000	1,20,000	1,19,381
Revenue due to the System	1,10,000	1,10,000	1,10,000	1,15,166
Share of enhanced Land Revenue	15,000	15,000	15,000	14,980
Total ...	1,25,000	1,25,000	1,25,000	1,30,146
Deduct Collection Charges in the Civil Department	6,250	6,250	9,000	9,370
Net Revenue ...	1,18,750	1,18,750	1,16,000	1,20,776
Sangam Anicut—				
Irrigation Revenue	1,00,000	90,000	...	...
Deduct Revenue due to old Irrigation	60,000	60,000	...	...
Revenue due to the System	40,000	30,000	...	...
Share of enhanced Land Revenue	2,000	...	...	...
Total ...	42,000	30,000	...	...
Deduct Collection Charges in the Civil Department	2,100	1,500	...	...
Net Revenue ...	39,900	28,500	...	...

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE PORTION OF LAND REVENUE DUE TO IRRIGATION UNDER PRODUCTIVE PUBLIC WORKS—*continued.*

—	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Realization, 1883-84.
1	2	3	4	5
G. REVENUE FROM PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT—continued.	Rs.	Rs.	Rs.	Rs.
XXVIII. PORTION OF LAND REVENUE DUE TO IRRIGATION—continued.				
Imperial—continued.				
Cauvery Delta—				
Irrigation Revenue	29,00,000	29,00,000	29,00,000	29,31,551
Deduct Revenue due to old Irrigation	23,50,000	23,50,000	23,40,000	23,47,698
Revenue due to the System	5,50,000	5,50,000	5,60,000	5,83,853
Share of enhanced Land Revenue	1,36,000	1,36,000	1,36,000	1,36,852
Total ...	6,86,000	6,86,000	6,96,000	7,20,705
Deduct Collection Charges in the Civil Department	34,300	34,300	50,112	51,891
Net Revenue ...	6,51,700	6,51,700	6,45,888	6,68,814
Srívaikuntham Anicut—				
Irrigation Revenue	1,80,000	1,60,000	1,70,000	1,82,786
Deduct Revenue due to old Irrigation	80,000	78,000	78,000	79,452
Revenue due to the System	1,00,000	82,000	92,000	1,03,334
Share of enhanced Land Revenue	2,000	2,000	2,000	2,284
Total ...	1,02,000	84,000	94,000	1,05,618
Deduct Collection Charges in the Civil Department	5,100	4,200	6,768	7,604
Net Revenue ...	96,900	79,800	87,232	98,014
Kurnool Canal—				
Irrigation Revenue	70,000	70,000	70,000	67,945
Deduct Collection Charges in the Civil Department	3,500	3,500	5,040	4,892
Net Revenue ...	66,500	66,500	64,960	63,053
Total—				
Irrigation Revenue	60,80,000	60,50,000	58,90,000	60,19,090
Deduct Revenue due to old Irrigation	28,05,000	28,03,000	27,44,000	27,43,467
Revenue due to the Systems	32,75,000	32,47,000	31,46,000	32,75,623
Share of enhanced Land Revenue	4,25,000	4,23,000	4,33,000	4,23,264
Total ...	37,00,000	36,70,000	35,79,000	36,98,887
Deduct Collection Charges in the Civil Department	1,85,000	1,83,500	2,57,688	2,66,319
Net Revenue ...	35,15,000	34,86,500	33,21,312	34,32,568

GOVERNMENT OF MADRAS.

ABSTRACT BUDGET ESTIMATE OF THE CHARGES FOR IRRIGATION WORKS IN THE MADRAS PRESIDENCY FROM 1ST APRIL 1885 TO 31ST MARCH 1886.

—	Reference to detailed Estimates.	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Outlay, 1883-84.
1	2	3	4	5	6
N. EXPENDITURE ON PRODUCTIVE PUBLIC WORKS—CAPITAL ACCOUNT.	Page.	Rs.	Rs.	Rs.	Rs.
51. IRRIGATION AND NAVIGATION.					
Imperial.					
I.—Works		14,33,344	15,21,905	16,06,162	13,36,884
II.—Establishment		2,97,459	3,18,304	3,34,718	2,64,305
III.—Tools and Plant		69,197	95,429	43,120	1,40,378
Less Receipts on Capital Account		...	— 72,000	...	— 1,23,573
Total ...		18,00,000	18,63,638	19,84,000	16,17,994
G. EXPENDITURE ON PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT.					
38. IRRIGATION AND NAVIGATION (WORKING EXPENSES).					
Imperial.					
I-A.—Extensions and Improvements		1,24,714	1,20,345	1,16,564	1,08,885
I-B.—Maintenance and Repairs		4,49,798	4,53,298	4,17,298	4,02,555
II.—Establishment		3,41,554	3,39,351	3,26,488	3,20,538
III.—Tools and Plant		73,934	66,874	60,240	59,113
Refund of Revenue		...	...	...	12,488
Total ...		9,90,000	9,79,868	9,20,590	9,03,579
Totals.					
I.—Works including Extensions and Improvements.		15,58,058	16,42,250	17,22,726	14,45,769
I-B.—Maintenance and Repairs		4,49,798	4,53,298	4,17,298	4,02,555
II.—Establishment		6,39,013	6,57,655	6,61,206	5,84,843
III.—Tools and Plant		1,43,131	1,62,303	1,03,360	1,99,491
Less Receipts on Capital Account		...	— 72,000	...	— 1,23,573
Refunds of Revenue		...	...	...	12,488
Total ..		27,90,000	28,43,506	29,04,590	25,21,573

GOVERNMENT OF MADRAS.

PART I.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86, ARRANGED BY SYSTEMS.

—	Amount of Estimate.	Amount of Actual Outlay to end of 1883-84.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Budget Estimate, 1885-86.	Remarks and References.
1	2	3	4	5	6	7
N. EXPENDITURE ON PRODUCTIVE PUBLIC WORKS—CAPITAL ACCOUNT.	Rs.	Rs.	Rs.	Rs.	Rs.	
51. IRRIGATION AND NAVIGATION.						
Imperial.						
Works in Progress.						
Godávari Delta System ...	1,10,88,695	96,67,804	4,50,337	4,58,000	3,95,000	Government of India Register No. 3 I. of 1882-83—Proceedings of Madras Government, No. 514 I., of 4th July 1882, and No. 854 I., of 23rd October 1882.
Kistna Delta System ...	1,38,99,784	62,69,148	5,29,793	5,25,000	5,38,700	Government of India Register No. 14 I. of 1881-82—Proceedings of Madras Government, No. 291 I., of 28th March 1882.
Sangam Anicut System ...	28,96,437	13,50,306	6,10,415	6,08,000	5,05,000	Government of India Register No. 4 I. of 1881-82—Proceedings of Madras Government, No. 352 I., of 2nd June 1881.
Cauvery Delta System ...	16,80,217	11,78,226	2,50,167	2,66,000	2,03,300	Government of India Register No. 8 I. of 1883-84—Proceedings of Madras Government, No. 778 I., of 21st September 1883.
Srívaikuntham Anicut System.	13,61,520	12,91,469	21,563	41,500	37,000	Government of India Register No. 10 I. of 1883-84—Proceedings of Madras Government, No. 863 I., of 3rd November 1883.
Kurnool Canal	1,76,31,712	1,76,31,712	—72,000	...	...	Proceedings of Madras Government, No. 993 I., of 5th December 1883.
Barur Tank Project	3,20,000	1,12,855	73,363	85,500	1,21,000	Government of India Register No. 1 of 1883-84—Proceedings of Madras Government, No. 714 I., of 3rd September 1883.
Total ...	4,88,78,365	3,75,01,520	18,63,638	19,84,000	18,00,000	
G. EXPENDITURE ON PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT.						
38. IRRIGATION AND NAVIGATION (WORKING EXPENSES).						
Imperial.						
Godávari Delta System ...	...	...	4,28,313	3,64,937	4,04,400	
Kistna do. do. ...	...	...	2,86,695	2,91,160	2,88,669	
Pennér Anicut do. ...	...	...	16,741	14,275	16,445	
Cauvery Delta do. ...	...	...	19,529	9,919	12,130	
Srívaikuntham Anicut System.	...	...	19,141	19,997	20,476	
Kurnool Canal	...	...	2,07,649	2,20,302	2,20,530	
Sangam Anicut	...	...	1,800	...	27,350	
Total ...	...	...	9,79,868	9,20,590	9,90,000	
Grand Total ...	...	...	28,43,506	29,04,590	27,90,000	

GOVERNMENT OF MADRAS.

PART I—continued.

BUDGET ESTIMATE OF EXPENDITURE IN ENGLAND ON IRRIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86, ARRANGED BY PROJECTS AND OBJECTS OF WORKS.

—	Budget Estimate, 1885-86.				Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Outlay, 1883-84.
	Works.	Tools and Plant.	Suspense Account.	Total.			
1	2	3	4	5	6	7	8
N. EXPENDITURE ON PRODUCTIVE PUBLIC WORKS—CAPITAL ACCOUNT.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
51. IRRIGATION AND NAVIGATION.							
Imperial.							
Godávari Delta System	...	4,500	...	4,500	690	...	3,031
Kistna Delta System	...	27,470	...	27,470	...	...	12,746
Cauvery do.	...	...	...	...	...	4,000	5,490
Kurnool Canal	...	...	...	...	...	...	1,27,860
Total ..	...	31,970	...	31,970	690	4,000	1,49,127
G. EXPENDITURE ON PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT.							
38. IRRIGATION AND NAVIGATION.							
Imperial.							
Kistna Delta System	...	1,452	...	1,452	...	...	...
Total ...	...	1,452	...	1,452	...	...	...

GOVERNMENT OF MADRAS.

PART IV.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86.

—	Revised Estimate for 1884-85.	Budget Estimate for 1885-86.
	Rs.	Rs.
Grant for Works and Repairs	20,95,548	20,07,856
Deduct items for which no charge for Establishment is admissible—		
Land compensation	1,37,973	1,40,044
Total, Deductions ...	1,37,973	1,40,044
Net Grant ...	19,57,575	18,67,812
A. 23 per cent. on the Net Grant	4,50,242	4,29,597
Direct Revenue	1,25,930	1,29,160
B. 10 per cent. on Direct Revenue	12,593	12,916
Indirect Revenue exclusive of the share of enhanced Land Revenue ...	32,47,000	32,75,000
C. 6 per cent. on Indirect Revenue	1,94,820	1,96,500
Total, A + B + C ...	6,57,655	6,39,013

PART VII.

ABSTRACT OF THE PROBABLE INCREASE OR DECREASE IN THE SUSPENSE ACCOUNTS OF IRRIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86.

Nil.

All Suspense Accounts are included under Provincial Civil Buildings, Roads and Services.

GOVERNMENT OF MADRAS.

APPENDIX A.

ACTUAL AND ESTIMATED CAPITAL ACCOUNT OF IRRIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1885-86.

—	Direct Charges.	Indirect Charges.				GRAND TOTAL.
		Capitalization of Abatement of Land Revenue.	Loss by Exchange on Payments in England.	Leave and Pension Allowances.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godávari Delta System.						
Total actual outlay to end of 1883-84 ...	96,67,804	14,40,208	...	3,62,120	18,02,328	114,70,132
Probable outlay during 1884-85 ...	4,50,337	14,136	138	10,674	24,948	4,75,285
Proposed outlay during 1885-86 ...	3,95,000	7,900	900	9,979	18,779	4,13,779
Total ...	1,05,13,141	14,62,244	1,038	3,82,773	18,46,055	1,23,59,196
Kistna Delta System.						
Total actual outlay to end of 1883-84 ...	62,69,148	2,22,819	...	2,42,538	4,65,357	67,34,505
Probable outlay during 1884-85 ...	5,29,793	41,857	...	11,739	53,596	5,83,389
Proposed outlay during 1885-86 ...	5,38,700	40,905	5,494	12,072	58,471	5,97,171
Total ...	73,37,641	3,05,581	5,494	2,66,349	5,77,424	79,15,065
Pennér Anicut System.						
Total actual outlay to end of 1883-84 ...	14,28,862	1,77,098	...	59,199	2,36,297	16,65,159
Probable outlay during 1884-85 ...	...	...	...	...	...	...
Proposed outlay during 1885-86 ...	...	...	...	...	...	...
Total ...	14,28,862	1,77,098	...	59,199	2,36,297	16,65,159
Sangam Anicut System.						
Total actual outlay to end of 1883-84 ...	13,50,306	35,856	...	32,892	68,748	14,19,054
Probable outlay during 1884-85 ...	6,10,415	82,375	...	13,862	96,237	7,06,652
Proposed outlay during 1885-86 ...	5,05,000	1,25,000	...	10,304	1,35,304	6,40,304
Total ...	24,65,721	2,43,231	...	57,058	3,00,289	27,66,010
Cauvery Delta System.						
Total actual outlay to end of 1883-84 ...	11,78,226	60,760	...	44,530	1,05,290	12,83,516
Probable outlay during 1884-85 ...	2,50,167	16,250	...	6,098	22,348	2,72,515
Proposed outlay during 1885-86 ...	2,03,300	1,250	...	519	1,769	2,05,069
Total ...	16,31,693	78,260	...	51,147	1,29,407	17,61,100
Srivaikuntham Anicut System.						
Total actual outlay to end of 1883-84 ...	12,91,469	37,986	...	58,744	96,730	13,88,199
Probable outlay during 1884-85 ...	21,563	12,160	...	310	12,470	34,033
Proposed outlay during 1885-86 ...	37,000	...	...	966	966	37,966
Total ...	13,50,032	50,146	...	60,020	1,10,166	14,60,198
Kurnool Canal.						
Total actual outlay to end of 1883-84 ...	1,76,31,712	...	...	...	...	1,76,31,712
Probable outlay during 1884-85 ...	— 72,000	...	...	...	...	— 72,000
Proposed outlay during 1885-86 ...	...	...	...	...	...	...
Total ...	1,75,59,712	...	...	...	...	1,75,59,712
Barur Tank Project.						
Total actual outlay to end of 1883-84 ...	1,12,855	7,136	...	3,001	10,137	1,22,992
Probable outlay during 1884-85 ...	73,363	1,187	...	1,879	3,066	76,429
Proposed outlay during 1885-86 ...	1,21,000	...	...	3,132	3,122	1,24,132
Total ...	3,07,218	8,323	...	8,012	16,335	3,23,553

GOVERNMENT OF MADRAS.

APPENDIX B.

ACTUAL AND ESTIMATED REVENUE ACCOUNT OF IRRIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1885-86.

—	Probable Receipts, 1885-86.			Probable Expenses during 1885-86 including Indirect Charges.	Balance Surplus or Deficit for 1885-86.	Probable Net Surplus or Deficit for 1884-85.	Actual Net Surplus or Deficit to end of 1883-84.	Probable Net Surplus or Deficit to end of 1885-86.
	Direct Receipts.	Portion of Land Revenue due to Irrigation.	Total.					
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godávari Delta System.	83,000	15,86,500	16,64,270	4,25,456	12,38,814	12,20,719	2,50,33,383	2,74,92,916
Kistna Delta System.	25,500	9,54,750	9,80,250	3,01,957	6,78,293	6,79,934	1,10,66,486	1,24,24,713
Pennér Anicut System.	260	1,18,750	1,19,010	17,617	1,01,393	1,01,098	14,01,180	16,03,671
Cauvery Delta System.	8,900	6,51,700	6,60,600	16,279	6,44,321	6,36,315	1,46,65,594	1,59,46,230
Srívaikuntham Anicut System.	1,500	96,900	98,400	21,705	76,695	61,081	4,37,602	5,75,378
Kurnool Canal ...	10,000	66,500	76,500	2,26,764	—1,50,264	—1,30,542	— 2,20,126	— 5,00,932
Sangam Anicut ...	...	39,900	39,900	28,330	11,570	26,448	...	38,018
Total ...	1,29,160	35,15,000	36,38,930	10,38,108	26,00,822	25,95,053	5,23,84,119	5,75,79,994

APPENDIX C.

ACTUAL AND ESTIMATED INTEREST ACCOUNT OF THE SYSTEMS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1885-86.

—	Actual Charges for Interest to end of 1883-84.	Probable Charges for Interest for 1884-85.	Probable Charges for Interest for 1885-86.	Total to end of 1885-86.	Net Surplus or Deficit from Appendix B.	Surplus or Deficit after paying Interest to end of 1885-86.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godávari Delta System ...	85,53,066	3,95,719	4,12,626	93,61,411	2,74,92,916	1,81,31,505
Kistna do. do. ...	50,62,103	2,61,362	2,82,732	56,06,197	1,24,24,713	68,18,516
Pennér Anicut do. ...	11,31,686	57,154	57,154	12,45,994	16,03,671	3,57,677
Sangam do. do. ...	67,567	66,221	88,529	2,22,317	38,018	— 1,84,299
Cauvery Delta do. ...	12,04,735	52,132	61,202	13,18,069	1,59,46,230	1,46,28,161
Srívaikuntham Anicut System.	6,43,109	52,090	53,261	7,48,460	575,378	— 1,73,082
Kurnool Canal	10,57,667	7,03,829	7,02,388	24,63,884	— 5,00,932	— 29,64,816
Barur Tank Project	2,257	5,981	9,869	18,107	...	— 18,107
Total ...	1,77,22,190	15,94,488	16,67,761	2,09,84,439	5,75,79,994	3,65,95,555

GOVERNMENT OF MADRAS.

APPENDIX E.

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

—	Per Acre irrigated.	
	Flow.	Lift.
WATER-RATES.	Rs. A. P.	Rs. A. P.
GODAVARI AND KISTNA DELTA SYSTEMS.		
Single wet crop	4 0 0	3 0 0
Second wet crop on irrigated lands	4 0 0	3 0 0
If compounded for two crops for a term not less than five years	6 8 0	4 14 0
Single dry crop	2 0 0	1 8 0
Second dry crop on irrigated land (if not compounded)	2 0 0	1 8 0
Sugar-cane, betel plantations and other garden produce remaining on the ground for the time of two crops.	8 0 0	6 0 0
Do. if compounded for not less than five years	6 8 0	4 14 0
Dry crop on land for which irrigation has never been supplied or, having been once supplied, has been since discontinued.	2 0 0	1 8 0
KURNOOL CANAL.		
Single wet crop	4 0 0	3 0 0
Second wet crop on irrigated lands	3 0 0	2 4 0
If compounded for two crops for a term of not less than five years	6 0 0	4 8 0
Sugar-cane, betel gardens and other garden produce remaining on the ground for the time of two crops	6 0 0	4 8 0
Single dry crop	1 0 0	0 12 0
Second dry crop on irrigated land (if not compounded)	1 0 0	0 12 0
Dry crop on land for which irrigation has never been supplied, or, if supplied, discontinued.	1 0 0	0 12 0
Garden crops (Class 2 of Madras Irrigation and Canal Company's rules)	3 0 0	2 4 0

N.B.—A reduction of the above rates at 50 per cent. for the first five years and 25 per cent. for the second five years will be made in the case of lands which have not been wet cultivated within the last ten years.

2. If blocks of 50 acres and upwards of unoccupied waste lands are taken up for irrigated cultivation, water will be supplied without restriction as to crops free of charge for five years and half rates for another five years.

Water-rates are not separately levied for other irrigation systems.

Navigation Rates on the Godavari, Kistna, Buckingham and Kurnool Canals.

		Rs.	A.	P.
License Fees—Cargo boats, per ton of 50 cubic feet		2	8	0
Do. Passenger boats, A Class do. do.		5	0	0
Do. Do. do. B do. do. do.		3	0	0
Do. Budgerows C do. do. do.		5	0	0
Do. Do. D do. do. do.		3	0	0
Do. Steamers, per ton		5	0	0
Do. Private boats not carrying goods or passengers per boat per annum ...		12	0	0
Do. Pleasure boats do. do. ...		1	0	0
Tolls—Rafts, timber, per 100 square feet		0	8	0
Do. Do. bamboo, do. do.		0	4	0
Do. Cargo and passenger boats, per ton of 50 cubic feet for six weeks		0	8	0
Steamers do. do.		1	0	0
Private boats not carrying goods or passengers, per boat		3	0	0

PRELIMINARY ISSUE.

IRRIGN. AND NAVIGN., AGRICL. AND PROTECTIVE WORKS.

MADRAS PRESIDENCY.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET ESTIMATE

OF

IRRIGATION & NAVIGATION, AGRICULTURAL & PROTECTIVE WORKS—IRRIGATION,

IN THE

MADRAS PRESIDENCY,

FOR THE YEAR

1885-86.

5th January 1885.

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

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GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF THE REVENUE FROM IRRIGATION AND NAVIGATION, AGRICULTURAL AND PROTECTIVE WORKS, IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1885 TO 31ST MARCH 1886.

—	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Realization, 1883-84.
1	2	3	4	5
H. RECEIPTS ON ACCOUNT OF PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.	Rs.	Rs.	Rs.	Rs.
XXVI. IRRIGATION AND NAVIGATION.				
IMPERIAL.				
Works for which Capital and Revenue Accounts are kept.				
Chembrambakam Tank	65	50	50	37
Pálár Anicut System	1,000	550	550	1,705
Pelandorai Anicut System	...	50	50	...
Total Works for which Capital and Revenue Accounts are kept ...	1,065	650	650	1,742
Works for which neither Capital nor Revenue Accounts are kept ...	12,000	12,000	12,000	13,838
Agricultural Works	10,000	10,000	10,000	8,714
Total, Imperial ...	23,065	22,650	22,650	24,294
PROVINCIAL.				
Madras Water-supply and Irrigation Extension Project	5,000	5,000	5,960	5,572
Buckingham Canal	44,300	40,100	33,100	50,111
Total, Provincial ...	49,300	45,100	39,060	55,683
Grand Total ...	72,365	67,750	61,710	79,977

GOVERNMENT OF MADRAS.

ABSTRACT BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION, AGRICULTURAL AND PROTECTIVE WORKS, IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1885 TO 31ST MARCH 1886.

—	Reference to Detailed Estimate.	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Outlay, 1883-84.
1	2	3	4	5	6
H. EXPENDITURE ON PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.	Page.	Rs.	Rs.	Rs.	Rs.
44. IRRIGATION AND NAVIGATION.					
IMPERIAL.					
Works for which Capital and Revenue Accounts are kept.					
CAPITAL.					
I.—Works		61,146	12,000	...	3,185
II.—Establishment		13,054	2,760	..	...
III.—Tools and Plant		800	150	...	...
Total ...		75,000	14,910	...	3,185
REVENUE.					
I-A.—Extensions and Improvements		6,480	8,402	3,480	8,558
I-B.—Maintenance and Repairs		30,436	35,428	25,436	49,383
II.—Establishment		8,596	10,147	6,716	13,246
III.—Tools and Plant		488	368	368	101
Total ...		46,000	54,345	36,000	71,288
Works for which neither Capital nor Revenue Accounts are kept.					
Works		2,72,941	2,89,200	4,03,883	2,50,129
Repairs		12,11,972	11,82,929	10,50,766	10,03,247
Establishment		5,41,288	5,09,743	4,70,636	4,23,581
Tools and Plant		17,799	17,099	15,715	22,852
Refunds of Revenue		...	...	...	50
Total ...		20,44,000	19,98,971	19,41,000	16,99,859

GOVERNMENT OF MADRAS.

ABSTRACT BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION, AGRICULTURAL AND PROTECTIVE WORKS, IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1885 TO 31ST MARCH 1886—*cont.*

—	Reference to Detailed Estimate.	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Outlay, 1883-84.
1	2	3	4	5	6
H. EXPENDITURE ON PUBLIC WORKS NOT CLASSED AS PRODUCTIVE—continued.	Page.	Rs.	Rs.	Rs.	Rs.
44. IRRIGATION AND NAVIGATION—continued.					
Agricultural.					
Works		1,75,967	1,68,240	1,70,482	1,62,390
Repairs		1,70,000	2,04,884	1,50,000	1,87,648
Establishment		80,573	86,819	74,711	77,664
Tools and Plant		3,460	3,731	4,807	5,009
Refunds of Revenue		...	...	...	191
Total ...		4,30,000	4,63,674	4,00,000	4,32,902
Totals.					
Works		5,16,534	4,77,842	5,77,845	4,24,262
Repairs		14,12,408	14,23,241	12,26,202	12,40,278
Establishment		6,43,511	6,09,469	5,52,063	5,14,491
Tools and Plant		22,547	21,348	20,890	27,962
Refunds of Revenue		...	..	...	241
Grand Total ...		25,95,000	25,31,900	23,77,000	22,07,234
PROVINCIAL.					
Capital Account.					
Works		1,69,150	1,80,712	1,69,556	95,562
Establishment		73,405	1,13,063	73,499	51,752
Tools and Plant		6,445	18,143	500	9,970
Total ...		2,49,000	3,11,918	2,43,555	1,57,284
Revenue Account.					
Extensions and Improvements		2,397	7,400	5,000	1,027
Maintenance and Repairs		86,233	1,24,396	77,659	1,31,379
Establishment		25,315	34,823	22,918	35,671
Tools and Plant		55	1,368	1,368	1,494
Refunds of Revenue		...	...	...	6,389
Total ...		1,14,000	1,67,987	1,06,945	1,75,960
Totals.					
Works		1,71,547	1,88,112	1,74,556	96,589
Repairs		86,233	1,24,396	77,659	1,31,379
Establishment		98,720	1,47,886	96,417	87,423
Tools and Plant		6,500	19,511	1,868	11,464
Refunds of Revenue		...	...	...	6,389
Total ...		3,63,000	4,79,905	3,50,500	3,33,244
Grand Total ...		29,58,000	30,11,805	27,27,500	25,40,478
F. FAMINE RELIEF AND INSURANCE.					
34. PROTECTIVE WORKS—IRRIGATION.					
Imperial.					
Capital.					
Works		3,52,602	3,14,683	3,50,000	1,36,372
Establishment		37,398	18,787	46,000	40,191
Tools and Plant		10,000	24,000	3,000	2,037
Total ...		4,00,000	3,57,470	3,99,000	1,78,600

GOVERNMENT OF MADRAS.

PART I.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION, AGRICULTURAL AND PROTECTIVE WORKS, IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86, ARRANGED BY SYSTEMS.

—	Amount of Estimate.	Actual Outlay to end of 1883-84.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Budget Estimate, 1885-86.	Remarks and References.
1	2	3	4	5	6	7
H. EXPENDITURE ON PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.	Rs.	Rs.	Rs.	Rs.	Rs.	
44. IRRIGATION AND NAVIGATION.						
Imperial.						
Works for which Capital and Revenue Accounts are kept.						
Capital.						
Works in Progress.						
Pálár Anicut System	18,94,915	15,92,004	...	...	50,000	Completion estimate submitted for sanction with G.O., No. 562 I. of 13th June 1884.
Pelandorai Anicut System ...	4,05,000	3,56,727	14,910	...	25,000	Government of India Register No. 5 I. of 1884-85. Proceedings of Madras Government, No. 626 I., of 3rd July 1884.
Total ...	22,99,915	19,48,731	14,910	...	75,000	
Revenue.						
Working Expenses and Maintenance.						
Chembrambakam Tank ...	...	...	6,127	— 1,000	— 1,000	
Pálár Anicut System	...	...	31,683	26,000	34,500	
Pelandorai Anicut System ...	...	...	16,535	11,000	12,500	
Total ...	...	...	54,345	36,000	46,000	
Works for which neither Capital nor Revenue Accounts are kept.	...	...	19,98,971	19,41,000	20,44,000	
Agricultural Works	...	...	4,63,674	4,00,000	4,30,000	
Total, Imperial ...	...	...	25,31,900	23,77,000	25,95,000	
PROVINCIAL.						
Capital Account.						
Buckingham Canal	86,12,000	51,45,722	2,35,953	2,20,000	2,24,000	Government of India Register No. 15 I. of 1883-84. Proceedings of Madras Government, No. 625 I., dated 9th August 1883, and No. 195 I., dated 16th February 1884.
Madras Water-supply and Irrigation Extension Project.	15,80,995	15,10,045	8,140	23,555	25,000	Government of India Register No. 16 I. of 1883-84 and Proceedings of Madras Government, No. 307 I., dated 19th March 1884.
Ganjam-Gopálpur Canal ...	450	...	450	...	...	
Chilka Lake Canal	...	...	24,600	...	...	
Project Divisions	...	...	42,775	...	...	
Total ...	...	66,55,767	3,11,918	2,43,555	2,49,000	
Revenue Account.						
Buckingham Canal	...	...	95,096	95,000	95,000	
Madras Water-supply and Irrigation Extension Project.	...	...	72,891	11,945	19,000	
Total ...	...	...	1,67,987	1,06,945	1,14,000	
Total, Provincial ...	...	...	4,79,905	3,50,500	3,63,000	

GOVERNMENT OF MADRAS.

PART I—continued.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION, AGRICULTURAL AND PROTECTIVE WORKS, IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86 ARRANGED BY SYSTEMS—*cont.*

—	Amount of Estimate.	Actual Outlay to end of 1883-84.	Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Budget Estimate, 1885-86.	Remarks and References.
1	2	3	4	5	6	7
F. FAMINE RELIEF AND INSURANCE.	Rs.	Rs.	Rs.	Rs.	Rs.	
34. PROTECTIVE WORKS—IRRIGATION.						
Imperial.						
Rushikulya Project	26,01,386	7,950	2,07,470	2,49,000	2,50,000	Government of India Register No. 16 I. of 1882-83, Proceedings of Madras Government, No. 147 I., of 13th February 1883.
Buckingham Canal	...	1,81,851	1,50,000	1,50,000	1,50,000	
Total ...	...	...	3,57,470	3,99,000	4,00,000	

BUDGET ESTIMATE OF EXPENDITURE IN ENGLAND.

—	Budget Estimate for 1885-86.				Revised Estimate, 1884-85.	Budget Estimate, 1884-85.	Actual Outlay, 1883-84.	—
	Works.	Tools and Plant.	Suspense Account.	Total.				
H. EXPENDITURE ON PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
44. Irrigation and Navigation.								
Imperial.								
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept	...	...	...	...	...	...	13,810	

GOVERNMENT OF MADRAS.

PART IV.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT CHARGES FOR THE YEAR 1885-86.

Number. 1884-85.	Number. 1885-86.	Particulars.	Rate of Salary.	Budget Estimate for 1885-86. Per Mensem.	Per Annum.	Total.	Revised Estimate for 1884-85.
1	2	3	4	5	6	7	8
		F. FAMINE RELIEF AND INSURANCE.	Rs.	Rs.	Rs.	Rs.	Rs.
		34. PROTECTIVE WORKS—IRRIGATION.					
		Imperial.					
		Total Grant for Works	...	...	...	3,52,602	3,14,683
		Deduct items on which no charge for Establishment is admissible.					
		Compensation for land	...	...	...	40,000	83,000
		Grant-in-aid for the Buckingham Canal	...	...	...	1,50,000	1,50,000
		Total Deductions ...	...	...	...	1,90,000	2,33,000
		Net Grant ...	...	...	...	1,62,602	81,683
		Contribution to Provincial Funds at 23 per cent. on the net grant	...	...	...	37,398	18,787
		H. PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.					
		44. IRRIGATION AND NAVIGATION.					
		Imperial.					
		Total Grant for Works and Repairs	...	...	...	19,28,942	19,01,083
		Deduct items on which no Establishment charge is admissible—					
		Grant for Land Compensation	...	...	...	4,392	...
		Grant for Expenditure in the Tank Divisions in which the cost of actual establishment employed is debited to Irrigation	...	...	...	30,000	32,267
		Grant for Repairs to Minor Irrigation Works under the charge of Collectors	...	...	...	3,75,000	3,70,000
		Total Deductions ...	...	...	...	4,09,392	4,02,267
		Net Grant for Works and Repairs ...	...	...	...	15,19,550	14,98,816
		A. Contribution to Provincial Funds on account of Establishment at 23 per cent. on the net grant.	...	...	...	3,49,497	3,44,729
		Estimate of Direct Revenue ...	...	...	...	23,065	22,650
		B. Contribution to Provincial Funds at 10 per cent. of the estimate of Direct Revenue ...	...	...	...	2,306	2,265
		Revenue due to old Irrigation under Productive Public Works	...	...	...	28,05,000	28,03,000
		C. 6 per cent. on the net amount	...	...	...	1,68,300	1,68,180
		Total A + B + C ...	...	...	...	5,20,103	5,15,174

GOVERNMENT OF MADRAS.

PART IV—continued.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT CHARGES FOR THE YEAR 1885-86—*continued.*

Number.		Particulars.	Rate of Salary.	Budget Estimate for 1885-86.			Revised Estimate for 1884-85.
1884-85.	1885-86.			Per Mensem.	Per Annum.	Total.	
1	2	3	4	5	6	7	8
		H. PUBLIC WORKS NOT CLASSED AS PRODUCTIVE—continued.	Rs.	Rs.	Rs.	Rs.	Rs.
		44. IRRIGATION AND NAVIGATION—continued.					
		Imperial—continued.					
		Special Establishment for investigating requirements of Tank systematically.					
		DIRECTION.					
1	1	Superintendent of Works	1,441	1,441			
1	1	Accountant	140	140			
1	1	Clerk, 2nd Class, 1st Grade	176	176			
1	1	Do. 3rd do. 3rd do.	80	80			
1	2	Do. 4th do. 2nd do.	30	60			
1	1	Do. 4th do. 3rd do.	20	20			
1	1	Do. 5th do. 1st do.	15	15			
1	1	Reference Picker	12	12			
1	1	Draughtsman	80	80			
1	1	Do.	50	50			
2	2	Do.	35	70			
1	1	Moochee	8	8			
3	3	Messengers	6	18			
3	3	Lascars	6	18			
		Total ...	...	2,188	26,256		
		Travelling Allowance	...	...	1,544		
		Contingencies	...	...	1,200		
						29,000	33,495
		INVESTIGATION.					
		Establishment for No. I Tank Division.					
1	1	Executive Engineer, 2nd Grade	800	800			
1	1	Assistant Engineer, 2nd do.	300	300			
1	1	Sub-Engineer, 3rd do.	250	250			
1	1	Supervisor, 2nd do.	150	150			
4	4	Overseers, 2nd do.	80	320			
1	1	Clerk, 3rd Class, 2nd Grade	60	60			
1	1	Do. 4th do. 1st do.	40	40			
1	1	Do. 4th do. 2nd do.	30	30			
5	5	Clerks, 4th do. 3rd do.	20	100			
4	4	Do. 5th do. 1st do.	15	60			
1	1	Draughtsman	58	58			
1	1	Do.	20	20			
1	1	Messenger	7	7			
4	4	Messengers	6	24			
14	14	Lascars	6	84			
		Total ...	...	2,303	27,636		
...	...	Travelling Allowance	...	...	2,164		
...	...	Contingencies	...	...	1,200		
		Total for No. I Tank Division ...	...	...	...	31,000	32,000

GOVERNMENT OF MADRAS.

PART IV—continued.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT CHARGES FOR THE YEAR 1885-86—*continued.*

Number.		Particulars.	Rate of Salary.	Budget Estimate for 1885-86.			Revised Estimate for 1884-85.
1884-85.	1885-86.			Per Mensem.	Per Annum.	Total.	
1	2	3	4	5	6	7	8
		H. PUBLIC WORKS NOT CLASSED AS PRODUCTIVE—continued.	Rs.	Rs.	Rs.	Rs.	Rs.
		44. IRRIGATION AND NAVIGATION—continued.					
		Imperial—continued.					
		Establishment for No. II Tank Division.					
1	1	Executive Engineer, 4th Grade	550	550			
1	1	Assistant Engineer, 1st Grade	450	450			
1	1	Sub-Engineer, 2nd Grade	300	300			
1	1	Supervisor, 2nd do.	150	150			
5	5	Overseers, 2nd do.	80	400			
1	1	Clerk, 3rd, Class, 2nd Grade	60	60			
1	1	Do. 4th do. 1st do.	40	40			
1	1	Do. 4th do. 2nd do.	30	30			
4	4	Clerks, 4th do. 3rd do.	20	80			
5	5	Do. 5th do. 1st do.	15	75			
1	1	Draughtsman	50	50			
1	1	Do.	20	20			
1	1	Messenger	7	7			
4	4	Messengers	6	24			
15	15	Lascars	6	90			
		Total ...	...	2,326	27,912		
		Travelling Allowance	...	...	2,888		
		Contingencies	...	...	1,200		
		Total for No. II Tank Division ...	...	...	...	32,000	28,800
		Establishment for No. III Tank Division.					
1		Executive Engineer, 3rd Grade	650	650			
1		Assistant Engineer, 1st do.	450	450			
1		Sub-Engineer, 2nd Grade	300	300			
1		Supervisor, 2nd do.	150	150			
4		Overseers, 2nd do.	80	320			
1		Clerk, 3rd Class, 2nd Grade	60	60			
1		Do. 4th do. 1st do.	40	40			
1		Do. 4th do. 2nd do.	30	30			
5		Clerks, 4th do. 3rd do.	20	100			
4		Do. 5th do. 1st do.	15	60			
1		Draughtsman	50	50			
1		Do.	20	20			
1		Messenger	7	7			
4		Messengers	6	24			
14		Lascars	6	84			
		Total ...	...	2,345	28,140		
		Travelling Allowance	...	...	2,068		
		Contingencies	...	...	1,200		
		Total for No. III Tank Division ...	...	...	...	31,408	
		Total Cost of Establishment for investigating the requirements of tanks ...	...	...	...	1,23,408	94,295
		Total, Imperial ...	...	...	...	6,43,511	6,09,469

GOVERNMENT OF MADRAS.

PART IV—continued.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT CHARGES FOR THE YEAR 1885-86—*continued.*

Number.		Particulars.	Rate of Salary.	Budget Estimate for 1885-86.			Revised Estimate for 1884-85.
1884-85.	1885-86.			Per Mensem.	Per Annum.	Total.	
1	2	3	4	5	6	7	8
		PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.
		Grant for Works and Repairs	...	...	...	2,57,780	3,12,508
		Deduct item on which no charge is admissible.					
		Grant for expenditure in the Project Divisions ...	...	...	...	...	4,350
		Net Grant	...	...	...	2,57,780	3,08,158
		Share of Public Works Establishment charges at 23 per cent. on the net grant for Works and Repairs	...	...	...	59,290	70,876
		Estimate of Direct Revenue	...	...	..	49,300	45,100
		Share of the Public Works Establishment charges at 10 per cent. on Direct Revenue	...	...	...	4,930	4,510
		Share of the Public Works Establishment charges at 23 per cent. on the grant-in-aid from F. Famine Relief and Insurance Funds	...	...	...	34,500	34,500
		Establishment in the Project Divisions	...	...	...	...	38,000
		Total, Establishment Charges ...	...	...	...	98,720	1,47,886

PART VII.

ABSTRACT OF THE PROBABLE INCREASE OR DECREASE IN THE SUSPENSE ACCOUNTS OF IRRIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86.

Nil.

All suspense accounts are included under Provincial, Civil Buildings Roads and Services.

GOVERNMENT OF MADRAS.

APPENDIX A.

ACTUAL AND ESTIMATED CAPITAL ACCOUNT OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1885-86.

—	Direct Charges.	Indirect Charges.				Grand Total.
		Capitalization of Abatement of Land Revenue.	Exchange on Payments in England.	Leave and Pension Allowances.	Total.	
1	2	3	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.						
CHEMBRAMBAKAM TANK.						
Actual outlay to end of 1883-84.	6,24,425	85,701	...	26,463	1,12,164	7,36,589
Probable outlay during 1884-85.	...	...	...	...	...	...
Proposed outlay during 1885-86.	...	...	...	...	...	...
Total ...	6,24,425	85,701	...	26,463	1,12,164	7,36,589
PELANDORAI ANICUT SYSTEM.						
Actual outlay to end of 1883-84.	3,56,727	20,004	...	13,482	33,486	3,90,213
Probable outlay during 1884-85.	14,910	...	...	386	386	15,296
Proposed outlay during 1885-86.	25,000	5,490	...	540	6,030	31,030
Total ...	3,96,637	25,494	...	14,408	39,902	4,36,539
PALAR ANICUT SYSTEM.						
Actual outlay to end of 1883-84.	15,92,004	16,217	...	72,744	88,961	16,80,965
Probable outlay during 1884-85.	...	...	...	...	...	...
Proposed outlay during 1885-86.	50,000	...	...	1,288	1,288	51,288
Total ...	16,42,004	16,217	...	74,032	90,249	17,32,253
Total, Imperial ...	26,63,066	1,27,412	...	1,14,903	2,42,315	29,05,371
PROVINCIAL.						
BUCKINGHAM CANAL.						
Actual outlay to end of 1883-84.	51,45,722	2,17,629	...	1,41,727	3,59,356	55,05,078
Probable outlay during 1884-85.	2,35,953	...	...	9,673	9,673	2,45,626
Proposed outlay during 1885-86.	2,24,000	...	...	9,660	9,660	2,33,660
Total ...	56,05,675	2,17,629	...	1,61,060	3,78,689	59,84,364
MADRAS WATER-SUPPLY AND IRRIGATION EXTENSION PROJECT.						
Actual outlay to end of 1883-84.	15,10,045	2,08,056	...	29,948	2,38,004	17,48,049
Probable outlay during 1884-85.	8,140	...	...	213	213	8,353
Proposed outlay during 1885-86.	25,000	...	...	617	617	25,617
Total ...	15,43,185	2,08,056	...	30,778	2,38,834	17,82,019
Total, Provincial ...	71,48,860	4,25,685	...	1,91,838	6,17,523	77,66,383

GOVERNMENT OF MADRAS.

APPENDIX B.

ACTUAL AND ESTIMATED REVENUE ACCOUNT OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF 1885-86.

—	Revenue Receipts, 1885-86.			Probable Expenses during 1885-86, including Indirect Charges.	Balance, Surplus or Deficit, 1885-86.	Probable Net Surplus or Deficit for 1884-85.	Actual Net Surplus or Deficit to end of 1883-84.	Probable Net Surplus or Deficit to end of 1885-86.
	Direct Receipts.	Indirect Receipts.	Total.					
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IMPERIAL.								
Chembrambakam Tank ...	65	37,620	37,685	—1,028	38,713	31,384	2,90,212	3,60,309
Pelandorai Anicut System ...	...	11,495	11,495	12,818	—1,323	— 8,272	—2,13,675	— 2,23,270
Pálár Anicut System ...	1,000	1,25,400	1,26,400	35,413	90,987	93,437	6,70,984	8,55,408
Total ...	1,065	1,74,515	1,75,580	47,203	1,28,377	1,16,549	7,47,521	9,92,447
PROVINCIAL.								
Buckingham Canal	44,300	...	44,300	97,991	—53,691	—93,013	4,03,674	2,56,970
Madras Water-supply and Irrigation Extension Project ...	5,000	10,260	15,260	19,553	—4,293	— 45,549	22,395	—27,447
Total ...	49,300	10,260	59,560	1,17,544	—57,984	—1,38,562	4,26,069	2,29,523

ESTIMATED ACCOUNT OF R[illegible] FOR THE YEARS 1884-85 AND 1885-86.

AC[illegible]	Budget Estimate, 1885-86.	Revised Estimate, 1884-85.
	Rs.	Rs.
To Balance at commencement of year	2,01,525	1,93,680
To Transfers of the Public Works		
Buildings and Roads Branch ...		
To Imperial Fund Receipts—		
G. Revenue from Productive Public Wo	4,00,000	3,57,470
XXVII—Irrigation and Naviga		
H. Receipts on account of Public Work	9,88,548	9,79,868
XXXI—Irrigation and Navigat		
To Provincial Fund Receipts—	25,95,000	25,31,900
H. Receipts on account of Public Work		
XXXI—Irrigation and Navigat	17,68,030	18,62,948
... ...	3,63,000	4,79,905
... ...	...	...
Total ...	63,16,103	64,05,771

(Signed) D. C. GORDON,
Examiner of Public Works Accounts.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

No. 206 I.

Note by the Chief Engineer for Irrigation.

The accompanying budget estimates of Productive Public Works, and Irrigation and Navigation, Agricultural and Protective Works for the ensuing year together with the revised estimates for the current year, are submitted to Government with the following observations.

2. The budget estimates have been prepared to work up to the provisional grants from Imperial funds, fixed by the Government of India in their Resolution, No. 119-A I., dated 8th November 1884, printed in Proceedings of Madras Government, No. 1066 I., dated 26th idem, and to the amounts assigned from Provincial funds in G.O., No. 2839, Financial, dated 8th December 1884, communicated with G.O., No. 3026 W., dated 9th idem. The Government of India have sanctioned in full the amounts applied for except under "H. 44. Irrigation and Navigation," for which the amount fixed is Rs. 19,000 less than that applied for. The amount provisionally fixed from Provincial funds is Rs. 3,63,000 against Rs. 4,28,000 applied for.

3. The budget estimates of expenditure during 1885-86 are compared below with the revised and budget estimates for the current year and the actuals for the previous year:—

—	Budget Estimate for 1885-86.	Revised Estimate for 1884-85.	Budget Estimate for 1884-85.	Actuals for 1883-84.
Imperial.	RS.	RS.	RS.	RS.
N. Productive Public Works, Capital Account—51. Irrigation and Navigation	18,00,000	18,63,638	19,84,000	16,17,994
N. Productive Public Works, Revenue Account—38. Irrigation and Navigation ..	9,90,000	9,79,868	9,20,590	9,03,579
H. Public Works not classed as Productive—44. Irrigation and Navigation	25,95,000	25,31,900	23,77,000	22,07,234
F. Famine Relief and Insurance 34. Protective Works, Irrigation	4,00,000	3,57,470	3,99,000	1,78,600
Total ..	57,85,000	57,32,876	56,80,590	49,07,407
Provincial.				
H. Public Works not classed as Productive—44. Irrigation and Navigation	3,63,000	4,79,905	3,50,000	3,33,244
Grand Total ..	61,48,000	62,12,781	60,30,590	52,40,651

IMPERIAL.

N. PRODUCTIVE PUBLIC WORKS—CAPITAL ACCOUNT.

51. IRRIGATION AND NAVIGATION.

4. *Variations between the Budget and Revised Estimates for* 1884-85.—The revised estimate under this head is Rs. 1,20,362 less than the budget estimate, Rs. 28,496 having been surrendered to the Government of India in Proceedings of Madras Govern-

ment, No. 970 I., dated 29th October 1884, and Rs. 91,866 in Proceedings of Madras Government, No. 1161 I., dated 29th December 1884. Of the amount surrendered, a sum of Rs. 72,000 is due to receipts on capital account of the Kurnool canal by sale of stores and boats and by transfer of the materials available for reconstructing the telegraph line along the canal to the Telegraph Department. The balance, Rs. 48,362, is the amount relinquished as not required for expenditure, as the grants for the Godávari and Kistna deltas and the Barúr tank and the Srívaikuntham anicut projects could not be fully utilised. The attention of the establishment in the Godávari Eastern division was greatly taken up in repairing the damages caused by floods, and the progress of work was retarded owing to want of materials in the Dowlaishweram quarries. There was delay in acquiring land required for works in the Gudiváda division of the Kistna delta, and the progress of works in the Kistna Western division during the early part of the year was slow as there was no Executive Engineer in charge. The estimates for several works of the Barúr tank project are under revision, the rates allowed in the sanctioned estimates being found insufficient. Detailed estimates for the works for which lump sums were provided in the sanctioned estimates of the Srívaikuntham anicut project have not yet been prepared.

5. *Variations between the Revised Estimates for* 1884-85 *and the Budget Estimate for* 1885-86.—The budget estimate for the ensuing year is Rs. 63,638 less than the revised estimate for the current year, as the Godávari delta and the Sangam anicut works will have far advanced by the end of the current year.

6. *Variations between the amounts applied for by Superintending Engineers and those proposed.*—The amounts applied for by the Superintending Engineers, I and II circles, for the Godávari and Kistna delta systems have been slightly reduced in order to make the total amounts, including establishment and tools and plant charges, round sums. The Superintending Engineer, II circle, has applied for Rs. 36,000 for expenditure on the Pennér anicut system, for which no provision was made in the rough budget estimate. The completion estimates for this system, which were submitted to the Government of India, have not yet been sanctioned. The amount applied for has not, therefore, been provided in the budget estimate. Application for an additional allotment of Rs. 45,000, including establishment and tools and plant charges, may be submitted to the Government of India after the estimates have been sanctioned. The Superintending Engineer, VI circle, has applied for Rs. 1,98,300 for the Cauvery and Vennár regulators against Rs. 1,56,300 entered in the rough budget estimate, but only Rs. 1,62,220 could be provided. The Superintending Engineer has not applied for funds for the Srívaikuntham anicut project, but Rs. 30,000 have been provided to complete the project works. As stated in paragraph 3 of the Proceedings of Madras Government, No. 906 I., dated 9th October 1884, the Superintending Engineer should see that detailed estimates, for the works for which lump sums are provided in the project estimates, are prepared and sanctioned for execution without delay.

7. *Grants provided for each System.*—The following statement details the estimated expenditure for 1885-86 compared with the revised and budget estimates for 1884-85 and the actuals for 1883-84 :—

—	Budget Estimate for 1885-86.					Revised Estimate for 1884-85.	Budget Estimate for 1884-85.	Actuals for 1883-84.
	Works.	Land Compensation.	Establishment.	Tools and Plant.	Total.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godávari delta	3,09,902	6,320	71,278	7,500	3,95,000	4,50,337	4,58,000	4,27,830
Kistna do.	3,74,915	32,724	86,231	44,830	5,38,700	5,29,793	5,25,000	3,94,380
Sangam anicut	3,20,000	1,00,000	73,600	11,400	5,05,000	6,10,415	6,08,000	5,93,152
Kurnool canal	..	..	..	..	..	— 72,000	..	5,893
Barúr tank	97,263	..	22,370	1,367	1,21,000	73,363	85,500	12,785
Cauvery delta	1,61,220	1,000	37,080	4,000	2,03,300	2,50,167	2,66,000	1,30,563
Srívaikuntham anicut ..	30,000	..	6,900	100	37,000	21,563	41,500	53,391
Total ..	12,93,300	1,40,044	2,97,459	* 69,197	18,00,000	† 18,63,638	19,84,000	16,17,994

* Includes Rs. 31,970 for expenditure in England. † Includes Rs. 690 for expenditure in England.

8. *Tools and Plant.*—Under this head funds have been provided for one 6-horse power engine for the Godávari delta and for a printing press and workshops machinery required for the Kistna delta. These articles have to be obtained from England. Funds have also been provided for constructing locally six composite punts required for the Kistna delta.

9. *Proposed outlay compared with the Sanctioned Estimates.*—The following statement details the estimated direct capital outlay on the works in progress to end of 1885-86 compared with the sanctioned estimates :—

—	Sanctioned Estimates.	Probable Outlay to end of 1885-86.				Balance remaining to be spent.
		Actuals to end of 1883-84.	Revised Estimate, 1884-85.	Budget Estimate, 1885-86.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godávari delta	1,10,88,695	96,67,804	4,50,337	3,95,000	1,05,13,141	5,75,554
Kistna do.	1,38,99,784	62,69,148	5,29,793	5,38,700	73,37,641	65,62,143
Sangam anicut	28,96,437	13,50,306	6,10,415	5,05,000	24,65,721	4,30,716
Barúr tank	3,20,000	1,12,855	73,363	1,21,000	3,07,218	12,782
Cauvery delta	16,80,217	11,78,226	2,50,167	2,03,300	16,31,693	48,524
Srívaikuntham anicut ..	13,61,520	12,91,469	21,563	37,000	13,50,032	11,488
Total ..	3,12,46,653	1,98,69,808	19,35,638	18,00,000	2,36,05,446	76,41,207

The estimates for all the above systems were sanctioned by the Secretary of State. The Superintending Engineer, VI circle, has submitted revised estimates for the Cauvery and Vennár regulators, which are now being examined in this office and will be disposed of shortly. The estimates for the Barúr tank project are found to require revision, and the Superintending Engineer, IV circle, has been requested to expedite the submission of the revised estimates for the project.

PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT.

XXVII. IRRIGATION AND NAVIGATION—DIRECT RECEIPTS.

10. The direct revenue estimated to be derived in 1885-86 compares as follows with the revised and budget estimates for 1884-85 and the actuals for 1883-84 :—

	Rs.
Budget estimate for 1885-86	1,29,160
Revised estimate for 1884-85	1,25,930
Budget estimate for 1884-85	1,49,400
Actuals for 1883-84	1,03,156

The revised estimate for 1884-85 compared with the budget estimate for that year shows a decrease of Rs. 23,470 ; this is due chiefly to the falling off of navigation receipts from the Kistna canals owing to the reduction of rates of tolls and license fees. The increase in the revised estimate of receipts from the Godávari delta is due to the inclusion of the estimated profits from the Dowlaishweram workshops. The budget estimate for 1885-86 compared with revised estimate for 1884-85 shows a small increase of Rs. 3,230 ; this is due chiefly to the increased revenue anticipated from the Kurnool canal.

XXXI. PORTION OF LAND REVENUE DUE TO IRRIGATION.

11. The irrigation revenue and the share of enhanced land revenue estimated to be credited to Productive Public Works in 1885-86 compare as follows with the revised and budget estimates for 1884-85 and the actuals for 1883-84 :—

	Rs.
Budget estimate for 1885-86	35,15,000
Revised estimate for 1884-85	34,86,500
Budget estimate for 1884-85	33,21,312
Actuals for 1883-84	34,32,568

The revised estimate for 1884-85 compared with the budget estimate for that year shows an increase of Rs. 1,65,188 as the completed channels of the Sangam anicut project will be brought into operation for the first time, as there will be an extension of irrigation in the Godávari and Kistna deltas, and as the rate of collection charges in the Civil Department has, in G.O., No. 1501 W., dated 16th June 1884, been reduced from 7·2 to 5 per cent. The amount of deduction on account of old irriga-

tion under the Cauvery delta system has been increased from Rs. 23,40,000 to Rs. 23,50,000, based upon the actuals for 1883-84. It is apprehended that revenue from the Srívaikuntham anicut system will diminish owing to the unfavorable character of the season. The budget estimate for 1885-86, compared with the revised estimate for 1884-85, shows a small increase of Rs. 28,500, of which a sum of Rs. 11,400 is due to the probable extension of irrigation under Sangam anicut, and the balance Rs. 17,100 to the estimated increase of revenue from the Srívaikuntham anicut system, as it is hoped that the season of 1885-86 will be more favorable than that of the current year.

38. IRRIGATION AND NAVIGATION—WORKING EXPENSES.

12. The following statement details the estimated charges for 1885-86 and compares them with the revised and budget estimates for 1884-85 and the actuals for 1883-84 :—

—	Budget Estimate for 1885-86.	Revised Estimate for 1884-85.	Budget Estimate for 1884-85.	Actuals for 1883-84.
	RS.	RS.	RS.	RS.
Godávari delta system	4,04,400	4,28,313	3,64,937	3,82,424
Kistna do.	2,88,669	2,86,695	2,91,160	2,79,214
Pennér anicut system	16,445	16,741	14,275	13,205
Sangam do.	27,350	1,890	..	..
Kurnool canal	2,20,530	2,07,649	2,20,302	1,81,710
Cauvery delta system	12,130	19,529	9,919	38,367
Srívaikuntham anicut system ..	20,476	19,141	19,997	8,659
Total ..	9,90,000	9,79,868	9,20,590	9,03,579

The revised estimate for 1884-85 compared with the budget estimate for that year shows an increase of Rs. 59,278, for which the sanction of the Government of India has been applied for in the Proceedings of Madras Government noted in the margin. The increase is due chiefly to the necessity for spending large amounts in repairing damages to works in the Godávari delta, caused by floods, and in keeping them in an efficient state. The charges for establishment at fixed rates of percentage on the difference between the revised and budget estimates for 1884-85 have also been provided in the revised estimate. The budget estimate for 1885-86 compared with the revised estimate for 1884-85 shows an increase of Rs. 10,132. This is due chiefly to the provision of funds for the first time for maintaining the works of the Sangam anicut project.

Proceedings of Madras Government, No. 970 I., dated 29th October 1884.
Proceedings of Madras Government, No. 1161 I., dated 29th December 1884.

13. The following statement compares the grants proposed for expenditure under extensions and improvements and maintenance and repairs for each system with those for the current year :—

—	Extensions and Improvements excluding old Maintenance charges.		Maintenance and Repairs excluding old Maintenance charges.		Estimate of Indirect Revenue exclusive of Collection charges.		Area irrigated.
	1885-86.	1884-85.	1885-86.	1884-85.	1885-86.	1884-85.	1883-84.
	RS.	RS.	RS.	RS.	RS.	RS.	ACRES.
Godávari delta ..	25,000	22,346	1,95,000	2,10,000	15,86,500	15,86,500	521,387
Kistna do. ..	13,000	15,175	1,50,000	1,58,000	9,54,750	9,54,750	298,097
Pennér anicut ..	3,436	3,436	4,140	4,140	1,18,750	1,18,750	62,832
Sangam do. ..	..	..	20,000	..	39,900	28,500	..
Kurnool canal ..	55,000	45,000	1,16,000	1,16,000	66,500	66,500	19,674
Cauvery delta ..	26,630	32,740	— 45,134	— 44,634	6,51,700	6,51,700	891,903
Srívaikuntham anicut ..	1,648	1,648	9,792	9,792	96,900	79,800	20,951
Total ..	1,24,714	1,20,345	4,49,798	4,53,298	35,15,000	34,86,500	1,814,844

Under extensions and improvements, funds have been provided for the following two major works connected with the Cauvery delta :—

	RS.
Vadavar head-sluice	2,530
Nular—converting dams into regulators	10,000
Total ..	12,530

The amounts applied for for the following systems under maintenance and repairs have been reduced in order to meet the charges for establishment at 6 per cent. on the difference between the budget estimates of indirect revenue for the current and ensuing years, the amount included in the rough budget estimate having been calculated on the current year's estimate :—

	From	To
	RS.	RS.
Godávari delta	2,00,000	1,95,000
Kistna do.	1,55,000	1,50,000
Sangam anicut	25,000	20,000

The amount required for payment to the Telegraph department for interest on capital, maintenance and supervision of the telegraph line along the Kurnool canal, which was not included in the rough budget estimate, has not been provided in the budget estimate, as it could not be met without increasing the total amount assigned. The Government of India may be requested to increase the grant for Productive Public Works, Revenue Account, from Rs. 9,90,000 to Rs. 10,00,000 to meet the payment to the Telegraph department.

14. The Superintending Engineers, I and II circles, applied for Rs. 41,000 and Rs. 27,573 under tools and plant for the Godávari and Kistna deltas respectively. The former has been reduced to Rs. 34,000, the amount entered in the rough budget estimate, and the latter has been increased to Rs. 32,829 to meet the cost of the steamer ordered to be constructed at the Kidderpore dock-yard, as the current year's allotment for the steamer, which could not be utilized, has been reappropriated. The Superintending Engineers, I and II circles, should submit revised schedules working up to the amounts provided under maintenance and repairs and tools and plant for inclusion in the final issue of the budget estimate.

H. PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.

XXVI. IRRIGATION AND NAVIGATION.

15. The budget estimate for the ensuing year, of direct receipts collected in the Public Works department under this head, compare as follows with the revised and budget estimates for the current year and the actuals for the previous year :—

—	Irrigation and Navigation Works.		Agricultural Works.	Total.
	Works for which Capital and Revenue Accounts are kept.	Works for which neither Capital nor Revenue Accounts are kept.		
	RS.	RS.	RS.	RS.
Budget estimate for 1885-86 ..	1,065	12,000	10,000	23,065
Revised estimate for 1884-85 ..	650	12,000	10,000	22,650
Budget estimate for 1884-85 ..	650	12,000	10,000	22,650
Actuals for 1883-84	1,742	13,838	8,714	24,294

The increase of the budget estimate for the ensuing year over the revised estimate for the current year is due to the anticipated increase of revenue from the Pálár anicut system.

44. IRRIGATION AND NAVIGATION.

16. The budget estimate of expenditure under this head during the ensuing year compares as follows with the revised and budget estimates for the current year and the actuals for the previous year :—

—	Budget Estimate for 1885-86.	Revised Estimate for 1884-85.	Budget Estimate for 1884-85.	Actuals for 1883-84.
	RS.	RS.	RS.	RS.
Irrigation and Navigation Works for which Capital and Revenue Accounts are kept—Capital Account . .	75,000	14,910	. .	3,185
Irrigation and Navigation Works for which Capital and Revenue Accounts are kept—Revenue Account.	46,000	54,345	36,000	71,288
Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept	20,44,000	19,98,971	19,41,000	16,99,859
Agricultural Works	4,30,000	4,63,674	4,00,000	4,32,902
Total . .	25,95,000	25,31,900	23,77,000	22,07,234

The increase of the revised over the budget estimate for 1884-85 is Rs. 1,54,900, of which Rs. 30,900 were sanctioned by the Government of India for expenditure on the Pelandorai Anicut Project in their letter, No. 165 I., dated 21st June 1884, printed in Proceedings of Madras Government, No. 626 I., dated 4th July 1884, and Rs. 1,24,000 were, in Proceedings of Madras Government, No. 1154 I., dated 22nd December 1884, applied for for repairing damages caused to irrigation and agricultural works in the southern districts by the recent heavy rains and for completing the works in hand. The increase of the budget estimate for the ensuing year over the revised estimate for the current year is Rs. 63,100, and this is due to the provision of funds for resuming works of the Pálár Anicut System and for forming an additional tank division to work in the Kurnool district.

17. The grant for 1885-86 has been distributed as follows :—

—	IRRIGATION AND NAVIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.		Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.	Agricultural Works.	Total.
	Capital Account.	Revenue Account.			
	RS.	RS.	RS.	RS.	RS.
Original Works	61,146	6,480	2,72,941	1,75,967	5,16,534
Repairs	..	30,436	12,11,972	1,70,000	14,12,408
Total . .	61,146	36,916	14,84,913	3,45,967	19,28,942
Deduct amount on which no percentage charge for establishment is admissible	4,392	..	4,05,000	..	4,09,392
Net Total . .	56,754	36,916	10,79,913	3,45,967	15,19,550
Establishment charge at 23 per cent. on Expenditure	13,054	8,490	2,48,380	79,573	3,49,497
Establishment charge at 10 per cent. on Direct Revenue	..	106	1,200	1,000	2,306
Establishment charge at 6 per cent. on Indirect Revenue due to old Irrigation under Productive Public Works	..	..	1,68,300	..	1,68,300
Special establishment for investigating the requirements of tanks	..	..	1,23,408	..	1,23,408
Total Establishment . .	13,054	8,596	5,41,288	80,573	6,43,511
Tools and plant at 1 per cent. on Expenditure . .	..	..	10,799	3,460	14,259
Do. directly charged to Irrigation . .	800	488	7,000	..	8,288
Total Tools and Plant . .	800	488	17,799	3,460	22,547
Total . .	75,000	46,000	20,44,000	4,30,000	25,95,000

18. The following works have been provided for under Capital Account :—

	RS.
Pálár Anicut System	40,000
Pelandorai do.	21,146
Total . .	61,146

The completion estimates for the former are now before the Government of India, and those for the latter have been sanctioned by them.

19. The allotments proposed for expenditure on Revenue Account compare as follows with those of the current year :—

—	Extensions and Improvements exclusive of Old Maintenance Charges.		Maintenance and Repairs exclusive of Old Maintenance Charges.		Estimate of Indirect Revenue due to Improvements exclusive of Collection Charges.		Area irrigated.
	1885-86.	1884-85.	1885-86.	1884-85.	1885-86.	1884-85.	1883-84.
	RS.	RS.	RS.	RS.	RS.	RS.	ACRES.
Chembrambakam Tank . .	— 1,283	519	403	4,395	37,620	37,620	12,868
Pálár Anicut System	5,822	5,442	22,091	20,091	1,25,400	1,25,400	66,178
Pelandorai Anicut System . .	1,941	2,441	7,942	10,942	11,495	8,645	5,087
Total . .	6,480	8,402	30,436	35,428	1,74,515	1,71,665	84,133

20. The allotments proposed for Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept are compared below with those of the current year :—

—	Major Original Works.		Minor Original Works.		Repairs.	
	1885-86.	1884-85.	1885-86.	1884-85.	1885-86.	1884-85.
	RS.	RS.	RS.	RS.	RS.	RS.
Ordinary works	55,360	1,19,522	1,20,000	1,25,777	5,30,000	5,85,700
Old maintenance charges of works for which Capital and Revenue Accounts are kept	..	..	10,039	6,436	1,30,972	1,30,766
Tank maintenance works—Tank division .	..	..	30,000	17,465	..	14,802
Do. do. Ordinary division . .	..	..	57,542	20,000	1,76,000	81,661
"Minor" Irrigation Works	..	..	..	..	3,75,000	3,70,000
Total . .	55,360	1,19,522	2,17,581	1,69,678	12,11,972	11,82,929

21. The execution of tank maintenance works was, under G.O., No. 646 I, dated 12th July 1884, transferred to the ordinary divisions, the report submitted by Lieutenant-Colonel Montgomerie, R.E., on the result of the investigation of the requirements of tanks in one minor basin in the Madura district having led to the conclusion that the special establishment of the tank divisions should be relieved of the execution of work, so that they might devote their attention entirely to grouping and investigating the requirements of tanks. This arrangement, which facilitates the execution of tank maintenance works, has necessitated the payment of contribution to provincial funds for establishment and tools and plant at 23 and 1 per cent. on expenditure on the works respectively. The No. 3 Tank division will be formed from 1st March next and will work in the Kurnool district. The amount provided for expenditure on tank maintenance works, together with establishment and tools and plant charges, is Rs. 4,50,000 in accordance with the programme approved by

the Government of India in their letter printed in Proceedings of Madras Government, No. 143 I, dated 12th February 1883. The amount has been distributed as follows :—

—	Tank Divisions.			Ordinary Divisions.			Total.
	No. 1, Madura.	No. 2, Chingleput.	No. 3, Kurnool.	Madura.	Chingleput.	Kurnool.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Survey operations	12,000	12,000	6,000	..	..	..	30,000
Original works	..	..	..	27,000	27,000	3,542	57,542
Repairs	..	..	..	79,000	79,000	18,000	1,76,000
Establishment charge at 23 per cent. ..	..	..	..	24,380	24,380	4,955	53,715
Cost of special establishment . ..	31,000	32,000	31,408	..	..	..	94,408
Tools and plant charges at 1 per cent. on expenditure	..	..	..	1,060	1,060	215	2,335
Tools and plant, actual requirements ..	1,000	1,000	4,000	..	..	..	6,000
Total ..	44,000	45,000	41,408	1,31,440	1,31,440	26,712	4,20,000
Superintendent of Works and his establishment	..	..	..	..	..	..	29,000
Tools and plant	..	..	..	..	..	..	1,000
							4,50,000

22. The following major works, for which estimates have been duly sanctioned, have been provided for :—

	Amount applied for.	Amount provided.
	Rs.	Rs.
Ganjam Division—Purushottapur channel improvements..	1,330	1,300
Nellore Division—Mutyalpad tank improvements ..	6,040	5,000
Do. —Rapur large do. ..	5,470	5,000
Do. —Molaganur do. ..	2,550	2,500
Coimbatore Division—Thadampolliem tank restoration ..	5,820	5,000
South Arcot Division—Vyalore tank improvements ..	2,117	2,100
Do. —Wallajah do. ..	24,060	15,000
Tanjore Division—Lower Coleroon Anicut, improving under-sluices	11,600	7,500
Negapatam Division—Vellur tank improvements ..	1,600	1,600
Trichinopoly Division—Lower Peruvalai Channel head sluice	4,320	4,320
Do. —Theruthalayaur tank restoration.	1,360	1,340
Tinnevelly Division—Tenkarai tank improvements ..	700	700
Do. —Puryur Periyakulam tank, constructing anicut and head sluices ..	4,000	4,000
Total ..	70,907	55,360

As the Government of India reduced the total amount applied for under "44, Irrigation and Navigation," no more than Rs. 55,360 could be provided for for major works under this head.

23. The distribution, by divisions, of the grants for minor original works and repairs and under agricultural works is shown in the statement attached to this note.

24. Rs. 3,75,000 have been provided for repairs to "Minor" irrigation works against Rs. 3,70,000 allotted for the current year. This amount will be held at the disposal of the Board of Revenue for appropriation to the several districts. Government in the Revenue department have accepted the Board's recommendation that four lakhs of rupees should be provided for the upkeep of "Minor" irrigation works; the total amount, however, fixed by the Government of India does not admit of a larger grant being allotted, but the amount provided bears nearly the same percentage on revenue as that provided for expenditure by the Public Works Department on "Imperial" works.

25. The proposed allotments for agricultural works compare with those of the current year as shown below :—

—	Original Works.		Repairs.
	Major.	Minor.	
Allotment for 1885-86	1,57,967	18,000	1,70,000
Do. 1884-85	1,53,000	15,240	2,04,884

26. The following are the major original works for which funds have been provided :—

Godávari Eastern Division ..	1. Gowtami Godávari L.B. from Rajahmundary to Yanam ..	12,000	
	2. Godávari L.B. from Purushottapatam to Rajahmundry ..	9,000	
Godávari Central Division ..	3. Vasista Godávari L.B. to Gunnaram aqueduct	4,000	
	4. Do. below do.	5,000	
	5. Gowtami Godávari and Vriddha Gowtami Godávari R.B. to Mokaltippa	5,000	
	6. Polavaram Island embankment.	7,000	
	7. Vynatiyam Godávari R.B. ..	3,000	
	8. Do. do. L.B. ..	3,000	
Godávari Western Division..	9. Vasista Godávari R.B. to Narsápur Lock	1,600	
	10. Godávari R.B. from Vijesh-weram to Polavaram ..	2,700	
			52,300
Kistna Eastern Division ..	11. Kistna river L.B. below anicut .	1,350	
Do. Western do. ..	12. Do. R.B.	8,120	
Do. do. do. ..	13. Groynes at Penumudi ..	2,320	
			11,790
Sangam Division	14. Pennér river L.B. from Sangam.	25,000	
			25,000
Cuddapah Division	15. Pápaghni R.B. above railway ..	1,320	
			1,320
Do.	16. Cheyar river L.B.	7,557	
			7,557
Trichinopoly Division ..	17. Coleroon L.B. from the upper anicut to Coleroon bridge ..	10,000	
Tanjore Division	18. Coleroon R.B. from Velangudi to the lower anicut	10,000	
	19. Cauvery branches raising embankments	5,000	
			25,000
Tinnevelly Division	20. Támbraparni R.B. below Srívaikuntham anicut	20,000	
Do.	21. Do. L.B. do. ..	15,000	
			35,000
			1,57,967

Funds have been provided for for items 14, 18, and 19 in anticipation of sanction to the estimates, as it is necessary that the works should be carried out without delay.

The Superintending Engineers, II and VI circles, should expedite the submission of estimates for the works.

F. FAMINE RELIEF AND INSURANCE—PROTECTIVE WORKS.

27. The revised estimate of expenditure under this head for the current year is Rs. 41,530 less than the budget estimate, as the progress of work on the Rushikulya Project has been slow owing to want of labor. The budget estimate for the ensuing year, during which the project works are expected to be in full swing, is Rs. 42,530 more than the revised estimate for the current year. The amount assigned by the Government of India under this head, viz., Rs. 4,00,000, has been distributed as follows:—

—	Land Compensation.	Works.	Establishment.	Tools and Plant.	Total.
	RS.	RS.	RS.	RS.	RS.
Rushikulya Project	40,000	1,62,602	37,398	10,000	2,50,000
Buckingham Canal	..	1,50,000	..	..	1,50,000
Total ..	40,000	3,12,602	37,398	10,000	4,00,000

Provincial.

H. PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.

XXVI. IRRIGATION AND NAVIGATION.

28. The budget estimate for 1885-86 of direct receipts under this head compares as follows with the revised and budget estimates for the current year and the actuals for the previous year:—

	RS.
Budget estimate for 1885-86	49,300
Revised do. for 1884-85	45,100
Budget do. for 1884-85	39,060
Actuals for 1883-84	79,977

The revised estimate for 1884-85 compared with the budget estimate for that year shows an increase of Rs. 6,040, which is due to the anticipated increase of navigation receipts from the Buckingham canal. The budget estimate for the ensuing year shows a further increase of Rs. 4,200 due to the same cause.

44. IRRIGATION AND NAVIGATION.

29. The revised estimate of expenditure under this head for the current year shows an increase of Rs. 1,29,405, of which Rs. 59,000 were sanctioned for closing breaches in the Red Hills and Cholavaram tanks, connected with the Madras Water-supply and Irrigation Extension Project, occurred during the recent heavy rains, and Rs. 24,600 were sanctioned for deepening the Chilka Lake canal in the Ganjam district. The cost of establishment in the "B," "C," and the Lower Coleroon Irrigation Project Divisions, amounting to Rs. 38,000, has been included under this head and deducted under contributions in the revised estimate of Provincial funds (Roads, Buildings, and other services), as it is intended that the cost of investigation of projects should be recorded under Provincial, Irrigation and Navigation, so that it may be written back when the estimates for the projects are sanctioned.

The charges for establishment at 10 per cent. on the difference between the revised and budget estimates of direct revenue have been provided by reducing the grant for repairs to the Buckingham canal from Rs. 68,635 to Rs. 68,144. The budget estimate of expenditure during the ensuing year is Rs. 1,16,905 less than the current year's revised estimate, as, owing to the past unfavorable season and destructive floods,

a larger grant could not be assigned from provincial funds. The amount assigned, viz., Rs. 3,63,000, has been distributed as follows:—

	Capital Account.	Revenue Account.
	RS.	RS.
Works	1,69,150	2,397
Repairs	..	86,233
Total ..	1,69,150	88,630
Establishment at 23 per cent. on expenditure	73,405	20,385
Do. at 10 per cent. on direct receipt ..	..	4,930
Total ..	73,405	25,315
Tools and Plant	6,445	55
Total ..	2,49,000	1,14,000

The following is the distribution of grants by systems:—

	Capital Account.	Revenue Account.
	RS.	RS.
Buckingham Canal	2,24,000	95,000
Madras Water Works and Irrigation Extension Project.	25,000	19,000
Total ..	2,49,000	1,14,000

30. The proposed expenditure on Capital Account is compared with the sanctioned estimates as follows:—

—	Estimate.	Outlay. Actual to end of 1883-84.	Outlay. Revised Estimate.	Outlay. Budget Estimate.	Total.
	RS.	RS.	RS.	RS.	RS.
Buckingham Canal	86,12,000	51,45,722	2,35,953	2,24,000	56,05,675
Madras Water-supply and Irrigation Extension Project	15,80,995	15,10,045	8,140	25,000	15,43,185
Total ..	1,01,92,995	66,55,767	2,44,093	2,49,000	71,48,860

31. The grants for extensions and improvements and for maintenance and repairs for 1885-86 compare as follows:—

—	Extensions and Improvements exclusive of old Maintenance Charges. 1885-86.	Extensions and Improvements exclusive of old Maintenance Charges. 1884-85.	Maintenance and Repairs exclusive of old Maintenance Charges. 1885-86.	Maintenance and Repairs exclusive of old Maintenance Charges. 1884-85.
	RS.	RS.	RS.	RS.
Buckingham Canal	5,000	5,000	68,634	68,144
Madras Water-supply and Irrigation Extension Project	— 2,603	2,400	17,599	56,252
Total ..	2,397	7,400	86,233	1,24,396

As the breaches in the Cholavaram and Red Hills tanks will be closed this year, the proposed grants for the Madras Water-supply and Irrigation Extension Project under maintenance and repairs provide only for the annual maintenance.

32. The contribution to Provincial funds (Roads, Buildings, and other services) on account of establishment and tools and plant for the current and ensuing years are as shown below :—

Budget Heads.	Year.	Establishment Charges. 23 per Cent. on Expenditure.	10 per Cent. on Direct Revenue.	6 per Cent. on Indirect Revenue.	Cost of Establishment actually employed.	Total.	Tools and Plant Charges.
Imperial.							
Productive Public Works, Capital Account.	1884-85 ..	3,18,304	..	..	..	3,18,304	..
	1885-86 ..	2,97,459	..	..	..	2,97,459	..
Productive Public Works, Revenue Account	1884-85 ..	1,31,938	12,593	1,94,820	..	3,39,351	..
	1885-86 ..	1,32,138	12,916	1,96,500	..	3,41,554	..
Public Works not classed as productive.	1884-85 ..	3,44,729	2,265	1,68,180	94,295	6,09,469	14,430
	1885-86 ..	3,49,497	2,306	1,68,300	1,23,408	6,43,511	14,259
Protective Works	1884-85 ..	18,787	..	..	..	18,787	..
	1885-86 ..	37,398	..	..	..	37,398	..
Total ..	1884-85 ..	8,13,758	14,858	3,63,000	94,295	12,85,911	14,430
	1885-86 ..	8,16,492	15,222	3,64,800	1,23,408	13,19,922	14,259
Provincial.							
Public Works not classed as Productive.	1884-85 ..	1,05,376	4,510	..	38,000	1,47,886	..
	1885-86 ..	93,790	4,936	..	1,23,408	98,720	..
Grand Total ..	1884-85 ..	9,19,134	19,368	3,63,000	1,32,295	14,33,797	14,430
	1885-86 ..	9,10,282	20,152	3,64,800	1,23,408	14,18,642	14,259

CHEPÂK,
25*th December* 1884.

(Signed) J. O. HASTED, Colonel, R.E.,
Chief Engineer for Irrigation.

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

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STATEMENT showing the Distribution of the Grants for Minor Original Works and Repairs for 1885-86.

—	Irrigation Revenue.	Minor Original Works. Amount applied for.	Minor Original Works. Proposed Grant.	Repairs. Amount applied for.	Repairs. Proposed Grant.
	RS.	RS.	RS.	RS.	RS.
IRRIGATION AND NAVIGATION WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.					
"Imperial" Works—					
Ganjam Division	1,57,156	10,000	10,000	20,000	20,000
Vizagapatam	62,792	1,500	1,500	10,000	7,000
Godávari Eastern	44,201	6,000	5,000	14,000	12,000
Do. Western		2,000	2,000	6,000	4,000
Kistna Eastern	23,166	1,500	1,500	5,000	5,000
Nellore	4,40,472	10,000	10,000	45,000	45,000
Cuddapah	2,55,952	3,000	3,000	30,000	25,000
Kurnool	98,440	2,000	2,000	10,000	10,000
Bellary	1,54,799	2,000	2,000	30,000	30,000
Anantapur	1,77,405				
Presidency	..	..	..	1,000	1,000
Chingleput	5,43,557	15,000	10,000	40,000	30,000
North Arcot	4,07,867	15,000	12,000	65,000	45,000
South Arcot	6,44,120	15,000	12,000	90,000	80,000
Coimbatore	5,28,367	15,000	7,000	65,000	40,000
Salem		..	5,000	..	15,000
Barur	1,17,963	500	500	600	500
West Coast	..	..	..	2,000	2,000

STATEMENT showing the Distribution of the Grants for Minor Original Works and Repairs for 1885-86—*continued.*

—	Irrigation Revenue.	Minor Original Works. Amount applied for.	Minor Original Works. Proposed Grant.	Repairs. Amount applied for.	Repairs. Proposed Grant.
	RS.	RS.	RS.	RS.	RS.
IRRIGATION AND NAVIGATION WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT—*cont.*					
"Imperial" Works—*cont.*					
Tanjore	96,729	1,500	1,500	4,000	4,000
Negapatam		6,000	3,000	8,000	5,000
Madura	2,11,857	9,000	5,000	5,000	5,000
Trichinopoly	2,53,878	5,000	5,000	40,000	40,000
Tinnevelly	10,77,750	8,000	8,000	70,000	70,000
Total ..	52,26,471	1,28,000	1,06,000	5,60,600	4,95,500
Reserve ..	..	..	14,000	..	34,500
Total ..	52,26,471	..	1,20,000	..	5,30,000
"Minor" Irrigation Works	36,94,567	.	..	4,00,000	3,75,000
Total ..	89,21,038	1,28,000	1,20,000	9,60,600	9,05,000
Agricultural Works—River Conservancy—					
Vizagapatam	..	..	..	500	500
Godávari Eastern	..	300	300	10,000	8,000
Do. Central	..	..	..	5,000	5,000
Do. Western	..	..	..	7,000	6,000
Kistna Eastern	..	558	558	3,000	3,000
Do. Western	..	1,000	1,000	1,500	1,500
Nellore	..	..	..	1,100	1,100
Cuddapah	..	..	..	1,500	1,500
South Arcot	..	..	..	5,000	5,000
Coimbatore	..	1,000	1,000	8,500	8,400
Tanjore	..	..	..	16,000	16,000
Negapatam	..	..	..	10,000	6,000
Trichinopoly	..	2,000	2,000	7,000	7,000
Tinnevelly	..	..	..	..	..
Total ..	..	4,858	4,858	76,100	69,000
River Embankments—					
Ganjam	..	..	..	6,000	3,000
Vizagapatam	..	..	..	..	2,000
Godávari Eastern	..	1,500	1,500	5,000	5,000
Do. Central	..	..	..	12,000	6,000
Do. Western	..	..	..	3,000	3,000
Kistna Eastern	..	..	..	9,000	9,000
Do. Western	..	500	500	2,000	2,000
Nellore	..	..	..	10,000	10,000
Cuddapah	..	..	..	1,000	1,000
Chingleput	..	..	..	4,000	2,000
South Arcot	..	1,000	1,000	2,000	2,000
Coimbatore	..	500	500	25,000	24,000
Tanjore	..	..	..	20,000	15,000
Negapatam	..	2,000	2,000	11,000	11,000
Trichinopoly	..	2,000	2,000	2,000	2,000
Tinnevelly	..				
Total ..	..	7,500	7,500	1,17,000	1,00,000
Drainages—					
Godávari Eastern	..	200	200	..	..
Tanjore	..	500	500	500	500
Trichinopoly	..	1,000	1,000	1,000	500
Total ..	..	1,700	1,700	1,500	1,000
Miscellaneous—					
Godávari Western	..	200	200	..	..
Coimbatore	..	772	772	..	..
Barur	..	300	250	..	..
Total ..	..	1,272	1,222	..	..
Total, Agricultural Works ..	..	15,330	15,280	1,94,600	1,70,000
Reserve ..	..	..	2,720	..	..
Total ..	..	15,330	18,000	1,94,600	1,70,000

ORDER—dated 5th January 1885, No. 3 I., Public Works.

The budget estimates for 1885-86 and the revised estimate for 1884-85 of the Irrigation Branch, as drawn up by the Chief Engineer for Irrigation, are approved and will be forwarded to the Government of India. The distribution, by divisions, of the grants for minor original works and repairs, shown in the statement which accompanies the note by the Chief Engineer for Irrigation, is also approved.

2. The Government of India will be requested to increase the grant for Productive Public Works, Revenue Account, from Rs. 9,90,000 to Rs. 10,00,000 and to wire their sanction to the provision of Rs. 3,75,000 for repairs to minor irrigation works under the charge of Collectors, so that the amount may be placed at the disposal of the Board of Revenue for an early appropriation to districts.

3. The Superintending Engineers concerned will expedite the submission of the estimates for which funds have been provided in anticipation of sanction.

4. Ordered that the following letter be sent to the Government of India :—

(Here enter No. 4 I., dated 5th January 1885.)

(True Extract.)

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

To Superintending Engineers.
To the Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Revenue Department.
" Financial "

Exd. E. Fernandez.
Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated January, 5th.

Recd. *Encl.*

G.O., 5th Jan. 1885, No. 3 I.

JANUARY.

Budget Estimates

Orders on preliminary issue of the — of the Irrigation Branch for 1885-86 and revised estimate for 1884-85.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

ACCOUNT.

Irrigation

Telegram No. 48 A. I.

STATE MESSAGE DESPATCHED BY ELECTRIC TELEGRAPH.

On the 25th of March 1885.

From	Calcutta	To	Madras
From	Works	To	Madras Works

Your telegram 24th outlay for investigation of Irrigation projects should be shown under Irrigation and Navigation and grant under Civil Buildings not obliged should be shown as lapse. Estimates as passed cannot be altered. —

Telegram No. 48 A. I.

Copy forwarded by post for information.

A Telegraph Clerk

Calcutta
The 25th March 1885.

for *Secy. to the Govt. of India.*

M Bhadrai
25-3-85

P/2746/15

SECRETARIAT TO GOVERNMENT
30 MAR 85
P.W. DEPARTMENT

letter engaged
30.3.85

Class. Do | INDIAN TELEGRAPH. | Local No. 07989

To (Station) Madras | From (Station) Calcutta

Words.	Day.	Hour.	Minute.	Official Instruction.
40/4	25	11	21	

To (Person) Madras Works | From (Person) Works

Your telegram 24th
Outlay for Investigation
of Irrigation projects
should be shown
under Irrigation and
Navigation and plant
under Civil Buildings
Not utilized should
Be shown as
lapse estimates as
passed can not
be ered.

Recd. from ... L. N. | Sent to ... L. N.
At ... Hrs. ... Mts., By | At ... Hrs. ... Mts., By

Date MADRAS 25-3-85 Telegraph Master.

B Ellis, C P G I S F—S. F. No. 4,001—10-12-84—14,00,000.

P.W.C. No 2746

742/A W 24/3/85
6 22 W 14/3/85
6 91 W 10/3/85
3 8 57 1/85
5 W 8/1/85

Rec'd 26. 3. 85

SECRETARY TO GOVT. P.W. DEPARTMENT
26 MAR 85

No 75 Dtd. 24th March 85

Communicated to the Examiner Public Works Accounts and the Chief Engineer for Irrigation with reference to his No. 742 W/A dated 24th March 1885.

Cd.
26.3.85

C. E. for I.W.
Ex. P.W.D.

Ds.
26.3.85

Ex 14/4 Ex 31/3
15/4

27-3-85

Ex 30.3.85