(1) Number of pages 88

(2) Date of repair 27.11.87

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. / B.P. No.	847 W	Press. / Mis.
Dated	29-3-1886	198 .

Not to be folded or roughly handled.

Archives —1 10,006-9 88

847
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers :—

Telegram from the Secretary to the Government of India, Public Works Department, Calcutta, to the Secretary to the Government of Madras, Public Works Department, Madras, dated 24th March 1886.

Your telegram, 19. No objection to formation of fourth Tank division if your financial position admits of it.

Office note from the Chief Engineer for Irrigation, dated 26th March 1886.

ORDER—dated 29th March 1886, No. 847 W., Public Works.

Communicated to the Superintending Engineer, Tank Maintenance Scheme, with advertence to G.O., No. 537 W., dated 2nd March 1886.

2. The formation of a fourth Tank division may be proceeded with.

(True Extract.)

J. S. Campbell Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, Tank Maintenance Scheme.
„ Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated March, 29th.

Recd. *Encl.*

G.O., 29th Mar. 1886, No. 857-W.

MARCH.

Fourth Tank Division

Sanction of the Government of India to the formation of a — communicated to the Superintending Engineer, Tank Maintenance Scheme.

847/2

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

No. 216 I.

Note by the Chief Engineer for Irrigation.

The accompanying budget estimates of the Irrigation Branch of the Public Works Department for the ensuing year and the revised estimates for the current year, prepared in the forms prescribed by the Government of India in their circular, No. X, dated 14th September 1885, are submitted to Government.

2. The budget estimates work up to the grants provisionally sanctioned from Imperial funds by the Government of India in their resolution, No. 81-A I., dated 6th November 1885, printed with G.O., No. 985 I., dated 20th idem, and to the amount assigned in the Financial Department from Provincial funds in G.O., No. 1602, dated 10th December 1885, communicated with Public Works G.O., No. 2136 C., dated 12th idem.

3. The budget estimates of expenditure under each head during 1886-87 compare with the revised and budget estimates for 1885-86, and the actuals of 1884-85, as shown below:—

—	Budget estimate, 1886-87.	Revised estimate, 1885-86.	Budget estimate, 1885-86.	Actuals, 1884-85.
	RS.	RS.	RS.	RS.
Imperial.				
F. 34 Protective Works—Irrigation	4,30,000	4,00,000	4,00,000	2,20,623
G. 38. Productive Public Works—Revenue Account	10,00,000	10,45,510	10,00,000	9,98,996
H. 44. Public Works not classed as Productive	25,28,000	23,95,000	25,95,000	24,24,956
Provincial.				
H. 44. Public Works not classed as Productive	4,65,500	6,30,651	3,63,000	4,44,978
Imperial.				
51. Capital expenditure on irrigation works not charged against revenue	15,05,000	14,57,000	18,20,000	16,10,444
Total ...	59,28,500	59,28,161	61,78,000	56,99,997

The amounts sanctioned by the Government of India for expenditure from Imperial funds during 1886-87 under G. 38, H. 44, and N. 51 are Rs. 6,000, 3,29,700 and 5,00,500 less than those applied for, while the amount allotted from Provincial funds under H. 44 is Rs. 1,15,500 less than the sum originally proposed.

FAMINE RELIEF AND INSURANCE.

34. *Protective Works, Irrigation.*

4. The amount of the revised estimate for 1885-86 is the same as that of the budget estimate for the year. The Superintending Engineer, I Circle, applied for an

additional allotment for the current year to accelerate the acquisition of land required for the Rushikulya project. Judging, however, from the expenditure already incurred on works, an additional allotment for the project was considered unnecessary and the grant for land compensation was increased by reducing the existing grants for those works of the project on which the expenditure incurred was comparatively small.

5. The budget estimate for 1886-87 compared with the revised estimate for 1885-86 shows an increase of Rs. 30,000, which is due to provision having been made for carrying out more vigorously the works of the Rushikulya project, for which the sanctioned estimates are now under revision. The amount assigned by the Government of India under this head, viz., Rs. 4,30,000, has been distributed as follows:—

—	Land compensation.	Works.	Establishment.	Tools and plant.	Total.
	RS.	RS.	RS	RS.	RS.
Rushikulya project	18,000	2,02,000	46,460	13,540	2,80,000
Buckingham canal (contribution)...	...	1,50,000	...	...	1,50,000
Total ...	18,000	3,52,000	46,460	13,540	4,30,000

The amount applied for by the Superintending Engineer for compensation for land required for the Rushikulya project has been increased from Rs. 13,000 to Rs. 18,000 to work up to the total assignment.

G. PRODUCTIVE PUBLIC WORKS.

REVENUE ACCOUNT.

XXVII. Irrigation and Navigation Direct Receipts.

6. The revised estimate for 1885-86 amounts to Rs. 2,25,250, or Rs. 96,090 more than the budget estimate for the year. Rs. 71,250 of the increase are due to the entry, under the orders of the Government of India marginally noted, of the water-rates collected in the Revenue Department on lands irrigated under the Kurnool canal which were hitherto shown in the budget under "Portion of land revenue due to irrigation," and the balance to the anticipated development of traffic on the Godávari and Kistna canals.

Letter, No. 93, dated 8th April 1884, printed with G.O., No. 433 I., dated 1st May 1884.
Letter, No. 48-A I., dated 4th June 1885, printed with G.O., No. 527 I., dated 19th idem.

7. The budget estimate for 1886-87 compared with the revised estimate for 1885-86 shows a decrease of Rs. 8,750, due chiefly to a portion of the increase of revenue from the Godávari delta and Kurnool canal being expected from temporary sources, which will not exist after the lapse of the current year.

8. As the water-rates assessed and collected in the Revenue Department on lands irrigated under the Kurnool canal have to be brought to account in the Public Works Department as "Direct Receipts," it is necessary that collection charges at the sanctioned rate of 5 per cent. should be deducted from the revenue collected, and the net, instead of the gross, amount collected should be transferred to this department. The Examiner of Public Works Accounts should, it is suggested, arrange, in communication with the Accountant-General, Madras, for the collection charges being deducted in future before the revenue is brought to account in the Public Works Department.

XXVIII. Portion of Land Revenue due to Irrigation.

9. The revised estimate for 1885-86 amounts to Rs. 34,77,000, or Rs. 38,000 less than the budget estimate for the year, the difference being attributable to the water-rates collected from lands irrigated under the Kurnool canal having been transferred to "Direct Receipts." Judging from the actuals of previous years, the Director of Revenue Settlement and Agriculture anticipates that the revenue from the Godávari

delta will be more, and that from the Srívaikuntham anicut less, than the budget estimate.

10. The budget estimate for 1886-87 compared with the revised estimate for 1885-86 shows an increase of Rs. 89,300, due to a probable extension of irrigation under the Godávari and Kistna deltas and to anticipated savings in remissions under the Srívaikuntham anicut system.

38. Irrigation and Navigation (Working Expenses).

11. The revised estimate for 1885-86 is Rs. 45,510 more than the budget estimate for the year. The increase was sanctioned by the Government of India, in their telegram dated 1st December 1885, for restoring the Gunnaram aqueduct, in the Godávari Central division, which was seriously damaged by floods in August 1884 and, again, in July 1885, and for repairing damages to works in the Godávari Western division. In addition to this increase for the Godávari delta, Rs. 14,760 were also transferred from the grant for the Sangam anicut system. The grant for the Kurnool canal was reduced to meet the demand for repairing damages caused by floods to works in the Cauvery delta.

12. The amount assigned for expenditure during 1886-87, which is Rs. 45,510 less than the revised estimate for 1885-86, has been distributed as follows:—

—	Extensions and improvements.	Maintenance and repairs.	Establishment.			Total.	Tools and plant.	Total.
			23 per cent. on expenditure.	10 per cent. on revenue collected in Public Works Department.	6 per cent. on revenue collected in Revenue Department.			
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Godávari delta	25,000	2,00,000	51,750	10,000	95,700	1,57,450	37,550	4,20,000
Kistna do.	13,000	1,65,000	40,940	3,000	55,560	99,500	34,500	3,12,000
Pennér anicut	3,436	4,140	1,743	25	6,600	8,368	556	16,500
Sangam do.	...	20,500	4,715	..	2,400	7,115	385	28,000
Kurnool canal	43,500	1,01,000	31,625	1,000	4,200	36,825	5,675	1,90,000
Cauvery delta	25,000	— 43,034	— 4,148	850	33,000	29,702	1,332	13,000
Srívaikuntham anicut ..	1,648	9,792	2,631	125	6,000	8,756	304	20,500
Total ..	1,11,584	4,60,398	1,29,256	15,000	2,03,460	3,47,716	80,302	10,00,000

The *minus* figures shown against the Cauvery delta represent the savings of the old maintenance charges effected by the improvements carried out in the delta, the old maintenance charges for the system being provided in full under H. 44. Public Works not classed as Productive.

13. For the Godávari delta the Superintending Engineer, I Circle, applied for Rs. 30,000 under Extensions and Improvements, Rs. 2,40,000 under Maintenance and Repairs, and Rs. 47,000 under Tools and Plant, against Rs. 25,000, 1,95,000 and 54,600 provided in the rough budget estimate printed with G.O., No. 853 I., dated 3rd October 1885, without assigning any explanation for the increased amounts asked for. A further increase of Rs. 17,000 under Maintenance and Repairs was also subsequently applied for towards diverting the Bank canal, in the Godávari Western division, on account of a severe set at Kakaraparru, where the river has been rapidly encroaching. The amounts applied for cannot be met from the total grant sanctioned by the Government of India as they are much in excess of the proposed allotments entered in the rough estimate, and would, moreover, if sanctioned, prejudicially affect the financial results anticipated when the delta completion estimates were sanctioned. The amounts provided in the rough estimate for 1886-87 under Maintenance and Repairs and Tools and Plant have, however, been increased to Rs. 2,00,000 and 37,750, respectively. The Superintending Engineer should endeavour to reduce the cost of working expenses in order that the return anticipated may be realised, funds required for all urgent repairs being made available by redistributing the amounts provided for expenditure.

847/3

14. For the Kistna delta, the Superintendent of Works in charge of the II Circle applied for Rs. 14,000 under Extensions and Improvements, Rs. 2,00,000 under Maintenance and Repairs, and Rs. 35,800 under Tools and Plant. The Kistna canals having been kept open longer than usual, to meet the great demand for water, and the river having during the current year carried an abnormal quantity of silt, the Superintendent of Works applied for a large amount under Maintenance and Repairs to admit of a reserve of Rs. 45,100 being placed at his disposal to enable him to increase the divisional grants when found necessary. The amounts applied for involve a large excess over the sum provided in the forecast statements printed with G.O., No. 81 I., dated 29th January 1885, and cannot be met from the amount sanctioned by the Government of India for expenditure during 1886-87; they have therefore been reduced to Rs. 13,000, 1,65,000 and 34,500. The funds required for clearing the abnormal silt accumulations should be obtained by redistributing the amount provided.

15. The allotments applied for on account of the Sangam anicut project under Maintenance and Repairs and for the Cauvery delta system under Extensions and Improvements have been reduced from Rs. 25,000 to Rs. 20,500 and from Rs. 27,290 to Rs. 23,000. Rs. 6,290 of the latter amount are required for the following major works and the balance for minor works:—

	Rs.
Nulár, converting dams into regulators	3,240
Biringimalai dam screw shutters	3,050
Total ...	6,290

H. PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.

XXXI. Irrigation and Navigation Direct Receipts.

16. The revised estimate for 1885-86 is Rs. 73,000, or Rs. 635 more than the budget estimate for the year. The difference is due to an anticipated increase of Rs. 3,700 in the revenue from the Buckingham canal under Provincial and a decrease of Rs. 3,065 in the revenue to be credited to Imperial funds, as it is apprehended that the receipts from Agricultural Works will fall short of the budget estimate.

17. The budget estimate for 1886-87 as compared with the revised estimate for 1885-86 shows an increase of Rs. 750, of which Rs. 250 are expected to be realised from the Vedarniem canal, the maintenance of which was recently * transferred from the Salt Department, and the balance represents the increase of revenue anticipated from the Madras water-supply and irrigation extension project.

* G.O., No. 389 I., dated 22nd April 1885.

18. The portion of land revenue due to irrigation works not classed as productive is, exclusive of collection charges, estimated to amount to Rs. 82,59,775 for the current year, and to a similar sum for the next year, the actuals of 1884-85 being Rs. 79,32,344 as shown below:—

—	Budget estimate, 1886-87.	Revised estimate, 1885-86.	Actuals, 1884-85.
	Rs.	Rs.	Rs.
Works for which Capital and Revenue Accounts are kept—			
Chembrambakam tank	37,620	37,620	36,653
Pálár anicut system	1,25,400	1,25,400	1,14,820
Pelandorai anicut system	11,495	11,495	7,709
Madras water-supply and irrigation extension project ..	10,260	10,260	7,253
Total ..	1,84,775	1,84,775	1,66,435
Works for which neither capital nor revenue accounts are kept ..	80,75,000	80,75,000	77,65,909
Total ..	82,59,775	82,59,775	79,32,344

This revenue is, in accordance with the orders of the Government of India, omitted in the budget estimates of this department.

847/4

44. Irrigation and Navigation, Imperial.

19. The revised estimate of expenditure for 1885-86 compared with the budget estimate for the year shows a decrease of Rs. 2,00,000, which represents the amount withdrawn by the Government of India in their telegram,* dated 9th May 1885, restricting expenditure on public works to meet other more urgent demands for funds.

* Printed with G.O., No. 453 I., dated 16th May 1885.

20. The budget estimate for 1886-87, which has been prepared to work up to the amount sanctioned by the Government of India, is Rs. 1,33,300 more than the revised estimate and Rs. 66,700 less than the budget estimate for 1885-86. Of the amount sanctioned, Rs. 7,00,000, or Rs. 2,50,000 more than the current year's budget estimate, having to be provided for the Tank Maintenance Scheme, the balance available for ordinary works is much below what is required. The grants applied for in several divisions have, therefore, been greatly reduced. The assignment promised by the Government of India, in their letter, No. 40, dated 26th January 1883, was fixed when establishment charges on the revenue due to old irrigation under Productive Public Works and their old maintenance charges were met from the grant provided under Productive Public Works, Revenue Account. The grant under this head having, however, been reduced, when the charges were ordered to be transferred to H. 44. Public Works not classed as Productive, a corresponding increase to the grant under the latter head was sanctioned for 1883-84 and the following two years; but this course has not been adopted for 1886-87 by the Government of India, who have directed that the increase should be met from the amount originally promised by them. Should it not be possible to increase the amount already sanctioned, it is probable that, owing to the reduced grants, Superintending Engineers will make pressing representations for additional funds which may be absolutely required. The necessity may then arise to apply for the sanction of the Government of India for a transfer from the grant for Tank Maintenance Works to meet the urgent demands for ordinary works which cannot be met by re-appropriating the amounts now provided.

21. The amount sanctioned has been distributed as shown below:—

—	Original Works.	Repairs.	Establishment.					Tools and Plant.			
			23 per cent. on expenditure.	10 per cent. on direct revenue.	6 per cent. on indirect revenue.	Tank division establishment.	Total.	Contribution to Provincial funds at 1 per cent. on expenditure.	Special tools and plant.	Total.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Works for which Capital and Revenue Accounts are kept.											
	50,500	..	11,615	..	..	..	11,615	..	885	885	63,000
	10,251	34,981	10,404	100	..	..	10,504	..	264	264	66,000
Capital Account ..											
Revenue do. ..											
Total ..	60,751	34,981	22,019	100	..	..	22,119	..	1,149	1,149	1,19,000
Works for which neither Capital nor Revenue Accounts are kept.											
Old maintenance charges and establishment charges on the old irrigation revenue of productive public works ..	10,039	1,30,972	32,433	..	1,68,840	..	2,01,273	1,410	..	1,410	3,43,694
Ordinary "Imperial" works	1,31,215	4,65,000	1,37,129	1,300	..	..	1,38,429	5,962	..	5,962	7,40,606
"Tank Maintenance" works	1,82,000	2,60,000	85,100	..	..	1,60,400	2,45,500	3,700	8,800	12,500	7,00,000
"Minor" irrigation works	..	2,75,000	..	..	..	..	..	..	..	..	2,75,000
Total ..	3,23,254	11,30,972	2,54,662	1,300	1,68,840	1,60,400	5,85,202	11,072	8,800	19,872	20,59,300
Agricultural works ..	1,31,774	1,50,000	64,808	600	..	..	65,408	2,818	..	2,818	3,50,000
Grand Total ..	5,15,779	13,15,953	3,41,489	2,000	1,68,840	1,60,400	6,72,729	13,890	9,949	23,839	25,28,300

Under Capital Account the Superintending Engineer, V Circle, applied for Rs. 81,358 for works of the Pálár anicut system and Rs. 12,798 for the Pelandorai anicut system. These amounts have been reduced to Rs. 40,000 and Rs. 10,500, while under Tools and Plant Rs. 800 have been provided for the former and Rs. 85 for the latter system.

22. The proposed expenditure on Capital Account compares with the sanctioned estimates as shown below :—

—	Estimate.	Outlay to end of 1884-85.	Revised estimate for 1885-86.	Budget estimate for 1886-87.	Total outlay.	Balance of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.
Pálár anicut system	18,94,915	16,00,742	50,000	50,000	17,00,742	1,94,173
Pelandorai do.	4,05,000	3,60,307	25,000	13,000	3,80,307	24,693
Total ..	22,99,915	19,61,049	75,000	63,000	20,81,049	2,18,866

23. Under Revenue Account the amounts applied for have been reduced as shown below :—

—	Extensions and Improvements excluding old Maintenance Charges.		Maintenance and Repairs excluding old Maintenance Charges.	
	Amount applied for.	Amount provided.	Amount applied for.	Amount provided.
	RS.	RS.	RS.	RS.
Chembrambakam tank	— 1,283	— 1,283	6,903	2,948
Pálár anicut system	6,822	4,322	33,860	27,091
Pelandorai do.	11,643	7,412	4,942	4,942
Total ...	17,182	10,251	45,705	34,981

Rs. 264 have been provided for the Pálár anicut system under Tools and Plant.

24. The amount provided for old maintenance charges and for establishment charges on the old irrigation revenue of Productive Public Works is Rs. 540 more than the estimates for the current year as it is anticipated that there will be an increase of Rs. 9,000 in the old irrigation revenue from the Godávari and Kistna deltas owing to the probability of lands hitherto irrigated from other sources being brought under the delta supply.

25. The allotments proposed for ordinary "Imperial" works are compared below with those of the current year :—

—	Original Works.		Repairs.
	Major.	Minor.	
	RS.	RS.	RS.
1886-87	31,215	1,00,000	4,65,000
1885-86	55,360	1,20,000	5,30,000

Under Major Original Works funds have been provided for the following works :—

	Amount provided.	Amount applied for.
	RS.	RS.
Ganjam, Waddada main channel new head and head-sluice	1,500	1,500
Ganjam, Purushottapatam channel improvements ...	2,500	2,500
Nellore, Kavali-Kottapali tank	1,215	3,180
Coimbatore, Pullapolliem channel	9,289	9,289
South Arcot, Wallajah tank improvements	10,000	25,310
Trichinopoly, Lower Peruvali channel head-sluice ...	6,000	6,450
Tinnevelly, Periyur-Periakulam tank improvements ...	711	714
Total ...	31,215	48,943

Owing to want of funds, the amounts applied for for the following sanctioned works have not been provided :—

	RS.
Cuddapah, Kondur anicut improvements	5,000
Tinnevelly, Virasigamony-Periakulam tank improvements ...	2,585
Vizianarayanam tank improvements	10,000
Pavur channel tank improvements	7,000
Kakanallore channel improvements	7,000
Trichinopoly, Nunjah and Punjah Sangady tanks improvements ...	2,938
Negapatam, Sanganam tank improvements	2,700
Total ...	37,223

The first work is in progress and will, it is expected, be completed this year.

26. The distribution by divisions of the grants for Minor Original Works and Repairs under this head and under Agricultural Works, as compared with the amounts applied for, is shown in the statement attached to this note. The amounts applied for under Minor Original Works and Repairs to Irrigation Works in the Chingleput and Coimbatore divisions have been greatly reduced; and for the Kurnool division the amounts applied for have been omitted altogether as grants for Tank Maintenance Works have been provided for those divisions.

27. In accordance with the programme approved by the Government of India, in their No. 40 I., dated 26th January 1883, Rs. 7,00,000 have been provided for expenditure on Tank Maintenance Works. A new division, called the No. 4 Tank division, will be constituted to work in the Coimbatore district, so that four Tank divisions will be at work during the ensuing year. No. 1 Tank division establishment has taken up and will complete this year the investigation of the requirements of all the works in the Amravati minor basin which overlaps the boundary between the Madura and Coimbatore districts, leaving other minor basins in the Coimbatore district to be taken up by No. 4 Tank division. Rs. 2,41,200 will be spent on the investigation of the requirements of tanks by the Tank division establishment as shown below :—

—	Direction.	Tank division No. 1.	Tank division No. 2.	Tank division No. 3.	Tank division No. 4.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.
Minor original works, including cost of temporary survey establishment, clearing jungle, &c. ...	...	18,000	18,000	18,000	18,000	72,000
Establishment	29,400	36,000	33,000	31,000	31,000	1,60,400
Tools and plant	...	1,000	1,000	1,000	5,800	8,800
Total ...	29,400	55,000	52,000	50,000	54,800	2,41,200

The balance, viz., Rs. 4,58,800, will be spent in the ordinary divisions in carrying out the works estimated for by the Tank division establishment, the amount being distributed as shown below :—

—	Original works.	Repairs.	Establishment at 23 per cent.	Tools and plant at 1 per cent.	Total.
	RS.	RS.	RS.	RS.	RS.
Madura division	30,000	70,000	23,000	1,000	1,24,000
Coimbatore (Amravati minor basin)	1,000	20,000	6,900	300	37,200
Chingleput	20,000	80,000	23,000	1,000	1,24,000
Kurnool	30,000	60,000	20,700	900	1,11,600
Coimbatore (other than Amravati minor basin)	20,000	30,000	11,500	500	62,000
Total ...	1,11,000	2,60,000	85,600	3,700	4,58,800

The Superintending Engineer, Tank Maintenance Scheme, included in his budget estimate an addition of Rs. 10 per mensem to the pay of the head clerk of his office, and of Rs. 4 to the pay of the draftsman attached to No. 1 Tank division, and provided also for three additional lascars for No. 2 Tank division. These additions have been provided for in anticipation of sanction. The Superintending Engineer should submit a separate application for the establishment required for the divisions during 1886-87.

28. As the total amount sanctioned by the Government of India does not admit of a larger grant being allotted, Rs. 2,75,000 have been provided for repairs to "Minor" irrigation works, against Rs. 3,75,000 in the current year's budget estimate, which was subsequently reduced to Rs. 2,76,000. The amount provided will be held at the disposal of the Board of Revenue for appropriation to the several districts.

29. The proposed allotment for Agricultural Works compare with those of the current year as indicated below :—

—	Original Works.		Repairs.
	Major.	Minor.	
	Rs.	Rs.	Rs.
1886-87	1,16,774	15,000	1,50,000
1885-86	1,57,967	18,000	1,70,000

The major original works for which funds have been provided are shown in part I. of the budget estimate. The amounts applied for on account of the following embankments have not been provided, as the estimates for the first two works are under revision, while those for the remaining works are still under preparation :—

	Amounts applied for
	Rs.
Godávari L.B., from Purushottapatam to Rajahmundry	10,000
Vasista Godávari R.B., from the anicut to Narsápur lock	6,000
Pápaghni river bank from new head-sluice to Koppole channel ...	2,000
Cauvery L.B., from the Grand anicut to Triviaur bridge, and R.B., from the Vennar to the Codamurti head	5,000
Total ...	23,000

The applications for other embankments have been reduced thus :—

	Amount applied for	Amount provided.
	Rs.	Rs.
1. Gowtami Godávari, Rajahmundry to Yanam	10,000	4,174
2. Gowtami Godávari and Vridhi Gowtami Godávari R.B. to Mokaltippa	6,000	5,000
3. Vynateyam Godávari	5,000	3,000
4. Kistna river L.B., below anicut	6,434	6,000
5. Pennér river L.B , from Sangam to Moldevi	75,000	15,000
6. Cheyair embankment	15,000	10,000
7. Támbraparni river, R.B.	20,000	10,000
8. Do. L.B.	15,000	8,000
9. Coleroon R.B., from Upper anicut to Coleroon bridge.	10,000	5,000
10. Coleroon R.B., from Road No. 4 to the Lower anicut...	15,000	9,000

For item 6, funds have been provided in anticipation of sanction as the work should be carried out without delay to prevent loss of revenue by remissions. The estimates for the work, amounting to Rs. 47,750, have been received and will be submitted to Government as soon as the Superintending Engineer, III Circle, replies to a reference made to him regarding the contribution which the Jaghirdar of Kundanellore has agreed to pay towards the work. The construction of the embankment, if once commenced, will have to be completed in one season. Should the amount of

contribution therefore be so small as to necessitate the execution of the work being deferred, the allotment proposed can be transferred to the Pennér embankment from Sangam to Moldevi.

44. *Irrigation and Navigation, Provincial.*

30. The revised estimate of expenditure during 1885-86 compared with the budget estimate for the year shows an increase of Rs. 2,67,651, due to the provision of funds for restoring the Red Hills tank, of the Madras water-supply and irrigation extension project, and to the transfer of funds from "Roads and Buildings" to "Irrigation and Navigation" to meet the cost of establishment employed in the Project divisions, and the expenditure intended to be incurred in improving the West Coast canal. As the estimates for this canal have not yet been submitted for sanction, the existing allotment of Rs. 19,519 is not required for that canal. Rs. 10,482 of this amount has been appropriated to meet the probable increase of expenditure on establishment in Project divisions as estimated by the Examiner of Public Works Accounts and shown in the margin, Rs. 370 to meet the charge for establishment at 10 per cent. on the increase of revenue expected from the Buckingham canal, and the balance of Rs. 8,667 is held in reserve, the amount being distributed as shown below :—

—	Grant.	Estimate of expenditure.	Difference.
	Rs.	Rs.	Rs.
B. Project division ...	9,000	16,240	7,240
C. Do. ...	15,200	14,332	— 868
Lower Coleroon Irrigation Project division...	18,000	22,110	4,110
Total ...	42,200	52,682	10,482

	Rs.
Works	7,047
Establishment	1,620
Total ...	8,667

31. The budget estimate of expenditure during 1886-87 is Rs. 1,65,151 less than the revised estimate for 1885-86, as the restoration of the Red Hills tank has almost been completed. The amount sanctioned for 1886-87 has been distributed as shown below :—

	Capital Account.	Revenue Account.
	Rs.	Rs.
Works	1,80,516	2,997
Repairs	...	1,15,134
Establishment at 23 per cent. on expenditure ...	74,984	27,170
Do. at 10 do. on direct receipts ...	...	5,375
Do. in Project divisions	53,000	...
Tools and plant	5,500	824
Total ...	3,14,000	1,51,500

32. The grant for expenditure on Capital Account has been distributed to the following systems :—

—	Works.	Establishment at 23 per cent. on expenditure.	Project divisions establishment.	Tools and plant.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.
Madras water-supply and irrigation extension project	14,634	3,366	...	...	18,000
B. Project division	900	...	16,000	100	17,000
C. Do.	1,800	...	16,000	200	18,000
Lower Coleroon Irrigation Project division	1,800	...	21,000	200	23,000
Ganjam-Gopálpur canal	3,252	748	...	...	4,000
Chilka lake canal	8,130	1,870	...	...	10,000
Buckingham canal	1,50,000	69,000	...	5,000	2,24,000
Total ...	1,80,516	74,984	53,000	5,500	3,14,000

The distributaries from the Red Hills tank will, it is hoped, be completed next year, and the north sluice extended to allow of water being passed into the Velankondapaliem tank. It is considered desirable that the three Project divisions should continue to work throughout the next year as there are several projects requiring investigation, which will have to be taken up on the completion of those in hand. The amount entered for the Ganjam-Gopálpur canal is intended for planting screw-pines along the proposed line of canal, and that for the Chilka lake canal for deepening it. With a view to the works sanctioned under Capital Account of the Buckingham canal being pushed forward towards completion as fast as possible, the Superintendent of Works in charge of the II Circle asked for Rs. 40,000 more than the current year's budget grant, but judging from the expenditure hitherto incurred, it is not considered advisable to provide for an increased grant. No provision has been made for improving the Vedarniem and the West Coast canals for want of funds and sanctioned estimates.

33. The proposed expenditure on the Buckingham canal and the Madras water-supply and irrigation extension project compares with the sanctioned estimates as follows:—

—	Estimates.	Actual outlay to end of 1884-85.	Revised estimate, 1885-86.	Budget estimate, 1886-87.	Total outlay.	Balance of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.
Buckingham canal	86,12,000	54,69,471	1,97,290	2,24,000	58,90,761	27,21,239
Madras water-supply and irrigation extension project	15,80,995	15,15,827	12,085	18,000	15,45,912	35,083
Total ..	1,01,92,995	69,85,298	2,09,375	2,42,000	74,36,673	27,56,322

34. The grants proposed for expenditure on Extensions and Improvements, Maintenance and Repairs and Tools and Plant during 1886-87 are shown below:—

—	Extensions and improvements exclusive of old maintenance charges.	Maintenance and repairs exclusive of old maintenance charges.	Tools and plant.
	RS.	RS.	RS.
Buckingham canal ...	5,000	68,634	630
Madras water-supply and irrigation extension project.	— 2,603	41,500	107
Vedarniem canal	600	5,000	87
Total ...	2,997	1,15,134	824

Funds have been provided for work being carried out to the extent of about Rs. 32,000 out of an estimate of Rs. 84,100 for restoring the Cholaveram tank, which was damaged during the cyclone of November 1884.

N. CAPITAL EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS NOT CHARGED AGAINST REVENUE.

51. *Irrigation and Navigation.*

35. The revised estimate of expenditure during 1885-86 compared with the budget estimate for the year shows a decrease of Rs. 3,63,000. Rs. 4,00,000 we withdrawn by the Government of India, in their telegram dated 9th May 1885, bu Rs. 37,000 were subsequently granted for commencing the works required fo completing the Pennér anicut system. An application for an additional allotment o Rs. 1,11,000 was submitted to the Government of India to admit of the Sangam anicut project being pushed forward towards completion, and to provide funds for carrying out the Peddalanka drain, in the Kistna delta, as the amounts required could

not be met from the existing grants for the delta. For want of funds, however, the Government of India did not comply with the application for additional funds, but stated that the demand will not be lost sight of should funds become available later on in the year.

36. The budget estimate of expenditure during 1886-87 is Rs. 48,000 more than the revised estimate for 1885-86, owing to the reduction in the current year's grants. No provision has been made for the Periyar project, as the Government of India declined to sanction any allotment on the ground that estimates were not formally sanctioned. In letter, No. 2867 W., dated 1st December 1885, the Government of India were requested to reconsider their decision on this subject.

37. The amount sanctioned, viz., Rs. 15,05,000, has been distributed as shown below:—

—	Land compensation.	Works.	Establishment.	Tools and plant.	Total.
	RS.	RS.	RS.	RS.	RS.
Godávari delta	8,120	2,66,569	61,311	..	3,36,000
Kistna do.	27,086	3,57,694	82,270	12,950	4,80,000
Pennér anicut	500	58,943	13,557	..	73,000
Barúr tank	1,757	92,881	21,362	..	1,16,000
Cauvery delta	..	82,114	18,886	..	1,01,000
Srívaikuntham anicut	..	17,886	4,114	..	22,000
Total ..	77,463	11,46,087	2,63,600	17,850	15,05,000

The amounts applied for by Superintending Engineers have been provided with slight alterations to bring the total grants to round sums, except for the Kistna delta, Barúr tank, and Srívaikuntham anicut systems, for which the amounts applied for exceed those originally provided in the rough budget estimate printed with G.O., No. 853 I., dated 3rd October 1885. The grants applied for have been reduced as shown below:—

	Amount applied for.	Amount provided.
	RS.	RS.
Kistna delta	3,74,434	3,57,694
Barúr tank	1,05,221	92,881
Srívaikuntham anicut	20,000	17,886

No provision has been made for the Godávari delta under Tools and Plant as the estimated receipts on account of the decrease of the capital of the Dowlaishweram workshops will cover the amount of Rs. 10,000 applied for.

38. The following statement details the estimated direct Capital outlay on the works in progress to the end of 1886-87 compared with the sanctioned estimates:—

—	Sanctioned estimate.	Actual outlay to end of 1884-85.	Revised estimate, 1885-86.	Budget estimate, 1886-87.	Total outlay.	Balance of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.
Godávari delta	1,10,88,695	1,00,10,029	2,78,504	3,36,000	1,06,24,533	4,64,162
Kistna do.	1,38,99,784	66,78,019	3,77,613	4,80,000	75,36,532	63,63,252
Pennér anicut	16,12,789	14,20,775	37,000	73,000	15,30,775	82,014
Sangam do.	28,96,437	19,67,120	4,12,906	3,77,000	27,67,026	1,39,411
Barúr tank	3,20,000	1,62,452	90,777	1,16,000	3,69,229	— 49,229
Cauvery delta	16,59,305	13,36,429	2,30,360	1,01,000	16,46,789	12,516
Srívaikuntham anicut	13,61,520	13,04,260	9,840	22,000	13,36,100	25,420
Total ..	3,28,38,530	2,28,58,984	14,37,000	15,05,000	2,58,00,984	70,37,546

Estimates for all the above systems have been sanctioned by the Secretary of State. The revised estimates for the Barúr tank, which were submitted to the Government of India with G.O., No. 748 I., dated 1st September 1885, have not yet been sanctioned.

39. At the end of 1886-87 the total Capital expenditure, including indirect charges, will amount to Rs. 1,75,82,464, the net revenue to Rs. 5,99,09,256, and the interest charges to Rs. 2,26,58,074, leaving a net profit of Rs. 3,72,51,182.

847/7

GENERAL.

40. The following statement shows the total contributions to Provincial Funds, Roads, Buildings, and Other Services on account of establishment and tools and plant charges for the current and ensuing years :—

	1885-86. Rs.	1886-87. Rs.
Establishment—		
23 per cent. on expenditure	8,66,504	8,82,959
10 do. on revenue collected in the Public Works Department	22,700	22,375
6 do. on irrigation revenue collected in the Revenue Department	3,66,900	3,72,300
Cost of Tank and Project divisions	1,76,090	2,13,400
Total ...	14,32,194	14,91,034
Tools and plant charges at 1 per cent.	12,968	13,890

The total grant for works and repairs under all heads being Rs. 42,91,667 for 1885-86 and Rs. 42,95,911 for 1886-87, the total charges for establishment will be 33·37 per cent. on expenditure in the current year and 34·71 per cent. in the ensuing year.

41. Superintending Engineers should furnish statements showing the redistribution of the amounts provided for works on Capital Account, and for repairs on Revenue Account of those systems for which the amounts applied for have been reduced.

CHEPÂK, 22nd December 1885. (Signed) H. L. PRENDERGAST, Colonel, R.E., Ag. Chief Engineer for Irrigation.

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

STATEMENT showing the distribution by divisions of the grants for Minor Original Works and Repairs for 1886-87.

Divisions.	Irrigation revenue for 1884-85.	Minor Original Works. Amount applied for.	Minor Original Works. Proposed grant.	Repairs. Amount applied for.	Repairs. Proposed grant.
ORDINARY "IMPERIAL" WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam	1,36,890	8,000	5,000	15,000	10,000
Vizagapatam	62,492	1,500	1,500	10,000	7,000
Godávari, Eastern	75,233	6,000	5,000	14,000	8,000
Do. Western		1,000	1,000	4,500	2,000
Kistna, Eastern	48,490	4,400	1,500	5,000	4,000
Nellore	4,03,464	15,000	10,000	50,000	45,000
Cuddapah	2,47,609	3,000	3,000	25,000	20,000
Kurnool	82,557	2,000	..	10,000	..
Bellary	1,26,358	2,000	2,000	25,000	20,000
Anantapur	65,147	12,000	5,000	50,000	25,000
Chingleput	4,99,878	10,000	8,000	50,000	50,000
North Arcot	3,95,296	20,500	15,000	1,20,000	1,00,000
South Arcot	5,04,699	5,500	3,000	15,000	10,000
Coimbatore division, Salem district ..	1,15,408	7,000	2,000	40,000	20,000
Do. Coimbatore district ..	5,06,597	..	..	6,000	2,000
West Coast	..	1,500	1,500	3,000	2,000
Tanjore	91,155	6,000	3,500	5,000	4,000
Negapatam		10,000	5,000	40,000	40,000
Trichinopoly	2,30,928	6,000	5,000	6,000	6,000
Madura	1,76,906	8,000	8,000	70,000	60,000
Tinnevelly	10,14,180	..	15,000	..	30,000
Reserve	..				
Total ..	47,83,287	1,29,400	1,00,000	5,63,500	4,65,000
AGRICULTURAL WORKS.					
River Conservancy.					
Vizagapatam	..	..	..	500	500
Godávari, Eastern	..	..	..	12,000	8,000
Do. Central	..	..	..	5,000	4,000
Do. Western	..	1,500	1,000	10,000	6,000

Statement showing the distribution by divisions of the grants, &c.—*cont.*

Divisions.	Irrigation revenue for 1884-85.	Minor Original Works. Amount applied for.	Minor Original Works. Proposed grant.	Repairs. Amount applied for.	Repairs. Proposed grant.
AGRICULTURAL WORKS—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.
River Conservancy—cont.					
Kistna, Eastern	..	..	..	3,000	3,000
Do. Western	..	..	..	3,000	1,500
Nellore	..	1,000	1,000	1,000	1,000
Cuddapah	..	..	..	4,000	1,500
Chingleput	..	1,000	1,000	2,000	..
South Arcot	..	..	..	2,500	2,000
Coimbatore	..	1,000	1,000	8,400	6,000
Tanjore	..	..	..	16,000	15,000
Negapatam	..	..	..	10,000	6,000
Trichinopoly	..	2,000	1,000	7,000	6,500
Total ..	..	6,500	5,000	84,400	61,000
River Embankment.					
Ganjam	..	1,000	1,000	3,000	3,000
Vizagapatam	..	..	..	1,000	1,000
Godávari, Eastern	..	..	..	8,000	5,000
Do. Central	..	..	..	10,000	5,000
Do. Western	..	..	..	2,000	2,000
Kistna, Eastern	..	..	..	10,000	8,000
Do. Western	..	..	..	2,000	2,000
Nellore	..	1,000	1,000	19,000	9,000
Cuddapah	..	..	..	1,000	1,000
Chingleput	..	..	..	4,000	2,000
South Arcot	..	..	..	1,100	1,000
North Arcot	..	2,000	..	2,000	..
Coimbatore	..	1,000	1,000	2,480	2,000
Tanjore	..	500	500	25,000	23,000
Negapatam	..	1,500	1,000	20,000	14,000
Trichinopoly	..	2,000	1,000	12,000	9,000
Tinnevelly	..	1,000	1,000	1,000	1,000
Total ..	..	10,000	6,500	1,23,580	88,000
Drainages.					
Tanjore	..	..	..	500	500
Trichinopoly	..	1,000	..	1,000	500
Total ..	..	1,000	..	1,500	1,000
Miscellaneous.					
Godávari, Western	..	200	200	..	..
Coimbatore	..	1,492	1,500	..	..
Total ..	..	1,692	1,700	..	..
Reserve	..	..	1,800	..	..
Total, Agricultural Works ..	..	19,192	15,000	2,09,480	1,50,000

ORDER—dated 2nd January 1886, No. 1 I., Public Works.

The budget estimates for 1886-87 and the revised estimates for 1885-86, as drawn up by the Acting Chief Engineer for Irrigation, are approved, and will be submitted to the Government of India. The distribution by divisions of the grants for minor original works and repairs shown in the statement attached to the foregoing note is approved.

2. With reference to paragraph 8 of the above note, the Examiner of Public Works Accounts will arrange, in communication with the Accountant-General, Madras, for the collection charges being deducted at 5 per cent. from the water-rates collected on the lands irrigated under the Kurnool canal, and for the net, instead of the gross, amount being transferred to the Public Works Department.

3. The Government of India will be requested to telegraph their sanction to the provision of Rs. 2,75,000 for repairs to "Minor" irrigation works.

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

(Here enter No. 2 I., dated 2nd January 1886.)

(True Extract.)

(Signed) H. L. PRENDERGAST, Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

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

Exd. E. Fernandez.
Spare Copies

847/9

IRRIGATION.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated January, 2nd.

Recd. *Encl.*

G.O., 2nd January 1886, No. 1 I.

JANUARY.

Budget Estimates

Orders on the preliminary issue of the — of the Irrigation Branch for 1886-87 and the revised estimate for 1885-86.

847
10

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

LETTER—from

COLONEL H. L. PRENDERGAST, R.E.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,
Irrigation Branch.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT (IRRIGATION).

SIR,

In forwarding a copy of proceedings of Madras Government, No. 1 I., dated 2nd January 1886, together with the preliminary issue of the budget estimates of the Irrigation Branch for 1886-87, I am directed to request that the sanction of the Government of India to the provision of Rs. 2,75,000, for repairs to "Minor" irrigation works under the charge of the Revenue Department, may be communicated by wire, so that the amount may be placed at the disposal of the Board of Revenue for early appropriation to districts.

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

(Signed) H. L. PRENDERGAST, Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

FORT ST. GEORGE,
2nd January 1886.

Exd. E. Fernandez.
Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated January, 2nd.

Recd. *Encl.*

2nd January 1886, No. 2 I.

JANUARY.

Budget Estimates

Forwarding copy of orders on the preliminary issue of the — of the Irrigation Branch for 1886-87, and revised estimate for 1885-86.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following letter from Colonel W. S. TREVOR, R.E., Secretary to the Government of India, Public Works Department (Account—Irrigation), to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 1st February 1886, No. 11 A.I.:—

I am directed to acknowledge receipt of your letter, No. 2 I., dated 2nd ultimo, forwarding the budget estimates of the Irrigation Branch, Madras, for 1886-87, and note thereon by the Chief Engineer for Irrigation.

2. With regard to the observations* on the curtailment of the Imperial grant under 44. Irrigation and Navigation for 1886-87, I am directed to say that the Government of India regrets the necessity for the reduction of the allotment for that year to the sum provisionally sanctioned in Public Works Department resolution, No. 81 A.I., dated 6th November 1881, and, should funds become available hereafter, the desirability of increasing that grant will not be overlooked. There is little probability, however, of the allotment being materially, if at all, increased during the coming year, and no increase to the grant under this head should therefore be anticipated.

* Paragraph 20 of Chief Engineer's note.

3. Considering the improbability of additional funds being hereafter available, the Government of India is of opinion that it is not desirable to expend any large amount on the investigation of new projects while works already investigated cannot be commenced or pushed on vigorously from want of suitable allotments. It seems desirable, therefore, that early steps should be taken to ascertain approximately the funds considered essentially necessary for the maintenance and repairs of existing irrigation works throughout the province, and that, in the final estimate, full provision should be made for such amount; the assignments for new works, both major and minor, as well as the proposed outlay on the investigation of fresh projects being reduced to such an extent that the needful sum for maintenance and repairs can be made available.

ORDER—dated 13th February 1886, No. 146 I., Public Works.

Communicated to the officers concerned for information.

2. Superintending Engineers will report, at an early date, the amounts essentially required for repairs to irrigation and agricultural works in the divisions in their Circles in addition to those provided in the preliminary issue of the budget estimates

for 1886-87, and also to what extent the amounts provided therein for original works may be reduced. On receipt of this information, the extent to which the grant for investigation and execution of "Tank Maintenance Works" should be reduced will be considered.

(True Extract.)

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

1
All Superintending Engineers.
" the Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Revenue Department.

Exd. E. Fernandez.
Spare Copies.

347/12

CHIEF ENGINEER
20 FEB
88
IRRIGATION

IRRIGATION.
ACCOUNT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated February, 13th.

Recd. *Encl.*

G.O., 13th Feb. 1886, No. 146 I.

FEBRUARY.

Irrigation Works

Orders on letter from the Government of India remarking on the observations made by the Chief Engineer for Irrigation in regard to the curtailment of the grant for — for 1886-87.

847
13

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper :—

No. 34 I.

Note by the Chief Engineer for Irrigation.

The sanction accorded by the Government of India in their letter, No. 229 G., dated 11th February 1885, printed with G.O., No. 543 W., dated 9th March 1885, to the temporary engineering establishment required for the Tank Maintenance Scheme will expire by the end of the current official year, and requires to be renewed for next year. Sanction to three Engineers, on Rs. 550, 450 and 350 per mensem, required to start another Tank division during the ensuing year, in accordance with the programme approved by the Government of India in their letter, No. 40 I., dated 20th January 1883, has also to be applied for. Tank maintenance operations extend at present over an area of 4,779 square miles in the Madura, Chingleput and Kurnool districts and that portion of the Coimbatore district within the Amarávati river minor basin. Up to the end of July 1885, 429 estimates, amounting to Rs. 2,33,314, were sanctioned, 78 estimates, amounting to Rs. 27,415, were prepared, and 272 estimates, amounting to Rs. 1,73,359, were under preparation, making in all 779 estimates, amounting to Rs. 4,34,588, while the probable expenditure on the execution of tank maintenance works to the end of 1886-87 is estimated at Rs. 5,67,325. In paragraph 3 of their letter, No. 11 A.I., dated 1st February 1886, printed with G.O., No. 146 I., dated 13th February 1886, the Government of India expressed an opinion that it is not desirable to expend any large amount on the investigation of new projects while works already investigated cannot be commenced or pushed on vigorously from want of adequate allotments, but as the Tank divisions deal with the restoration of existing tanks, and as sufficient number of estimates have to be prepared by the Tank divisions and sanctioned in time to admit of the tank maintenance works being carried out to the extent to which funds can be made available, it is considered undesirable that the formation of No. 4 Tank division should be deferred. This division will work in the Coimbatore district outside the Amarávati river minor basin which overlaps the boundary between the Madura and Coimbatore districts. The necessity for the employment of a special officer of sufficient standing, with the powers of a Superintending Engineer, to control the operations of the Tank divisions still continues.

CHEPÁK,
22nd February 1886.

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

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

Order—dated 25th February 1886, No. 512 W., Public Works.

The Government of India will be requested to renew the existing sanction of the temporary establishment for the Tank Maintenance Scheme, as noted in the margin, and to accord sanction to the establishment required for the No. 4 Tank division.

	Rs.
Local allowance to the Superintendent of Works ..	100
Two Engineers at Rs. 650 each	1,300
One Engineer	550
Three Engineers at Rs. 450 each	1,350
Three ,, at ,, 300 ,, ...	900
Total ..	4,200

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

(Here enter No. 513 W., dated 25th February 1886.)

(True Extract.)

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

To the Chief Engineer for Irrigation.
,, Superintending Engineer, Tank Maintenance Scheme.
,, Examiner, Public Works Accounts.
,, Revenue Department.

Exd. E. Fernandez.
Spare Copies

847/14

R.2201

CHIEF ENGINEER
2MAR
1886
EXB INDIA

GENERAL.
ESTABLISHMENT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated February, 25th.

Read. *Encl.*

G.O., 25th Feb. 1886, No. 512 W.

FEBRUARY.

Temporary Establishment for the Tank Maintenance Scheme

Ordered that the Government of India be requested to renew the existing sanction of the — and to accord sanction to the establishment required for No. 4 Tank division.

847
15

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

LETTER—from

COLONEL J. SHAW-STEWART, R.E.,

Secretary to the Government of Madras,

Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

SIR,

In forwarding a copy of the proceedings of Madras Government, No. 512 W., dated 25th February 1886, I am directed to request that the Government of India will be so good as to renew the existing sanction for the temporary engineering establishment for the Tank Maintenance Scheme, and to accord sanction to the entertainment of three temporary Engineers, on Rs. 550, 450 and 300 per mensem, required to start, early next year, another Tank division to work in the Coimbatore district outside the Amarávati river minor basin which overlaps the boundary between the Madura and Coimbatore districts.

2. As the necessity for submitting this application three months before the expiration of the existing sanction was lost sight of, I am to request that the sanction of the Government of India may be communicated by wire to save delay.

I have the honor to be,

Sir,

Your most obedient servant,

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

FORT ST. GEORGE,
25th February 1886.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated February, 25th.

Recd. *Encl.*

25th Feb. 1886, No. 513 W.

FEBRUARY.

Temporary Establishment for the Tank Maintenance Scheme

Requesting to renew the existing sanction for the — and to sanction the establishment required for the No. 4 Tank division.

847
16

2ND MARCH 1886, No. 538 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following letter from Lieutenant-Colonel J. PENNYCUICK, R.E., Superintending Engineer, Tank Maintenance Scheme, to the Chief Engineer, Public Works Department, dated Chepâk, 24th February 1886, No. 494 T.—Through the Chief Engineer for Irrigation :—

I have the honor to request sanction to the formation, from the 1st April next, of a new Tank Maintenance division, with three sub-divisions, to be styled No. IV division, with its head-quarters, for the present, at Coimbatore, and to work in the Coimbatore district.

2. Proposals for the appointment of the establishment for this division have already been submitted; but, by an oversight, sanction to the formation of the division itself has never been asked for.

No. 24 E.W.

Forwarded to the Chief Engineer, Public Works Department.

CHEPÂK.
26th February 1886.

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

ORDER—dated 2nd March 1886, No. 537 W., Public Works.

Ordered to be forwarded for the sanction of the Government of India, in continuation of letter, No. 513 W., dated 25th February 1886.

(Here enter No. 538 W., dated 2nd March 1886.)

(True Extract.)

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

To the Chief Engineer for Irrigation.
„ Superintending Engineer, Tank Maintenance Scheme.
„ Examiner, Public Works Accounts.

ENDORSEMENT—dated 2nd March 1886, No. 538 W., Public Works.

Forwarded.

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

Exd. E. Fernandez.
Spare Copies.

GENERAL.
ESTABLISHMENT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated March, 2nd.

Read. *Encl.*

G.O., 2nd March 1886, No. 538 W.

MARCH.

Tank Maintenance Scheme

Forwarding, for sanction, letter from the Superintending Engineer, —, requesting sanction to the formation of a new division, to be styled No. IV division, with head-quarters at Coimbatore.

PRELIMINARY ISSUE.

847
17

IRRIGATION AND NAVIGATION.
PRODUCTIVE PUBLIC WORKS.

MADRAS PRESIDENCY.

PUBLIC WORKS DEPARTMENT.

BUDGET ESTIMATE

OF

IRRIGATION & NAVIGATION—PRODUCTIVE PUBLIC WORKS,

IN THE

MADRAS PRESIDENCY,

FOR THE YEAR

1886-87.

2nd January 1886.

(Signed) H. L. PRENDERGAST, Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

847
18

IRRIGATION AND NAVIGATION.
PRODUCTIVE PUBLIC WORKS.

MADRAS PRESIDENCY.

CONTENTS.

	PAGE
BUDGET ESTIMATE OF REVENUE RECEIPTS	2
ABSTRACT BUDGET ESTIMATE OF EXPENDITURE	5
DETAILS OF ABOVE—	
PART I.—DETAIL OF THE BUDGET ESTIMATE OF EXPENDITURE ARRANGED BY PROJECTS AND OBJECTS OF WORK	6
„ IV.—DETAIL OF THE BUDGET ESTIMATE FOR ESTABLISHMENT	9
APPENDICES TO ABOVE—	
APPENDIX A.—Actual and Estimated Capital Account to end of Year	10
„ B.—Ditto ditto Revenue ditto	11
„ C.—Ditto ditto Interest ditto	12

REVENUE.

BUDGET ESTIMATE OF REVENUE FROM IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1886 TO 31ST MARCH 1887.

	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Realizations, 1884-85.
G. Revenue from Productive Public Works.	Rs.	Rs.	Rs.	Rs.
XXVII. Irrigation and Navigation (Direct Receipts).				
Imperial.				
Godávari Delta System	1,00,000	1,04,000	83,000	96,012
Kistna Delta System	30,000	29,400	25,500	32,998
Pennér Anicut System	250	250	260	270
Cauvery Delta System	8,500	8,900	8,900	9,093
Srivaikuntham Anicut System	1,250	1,450	1,500	947
Kurnool Canal ... Collections in the Revenue Department ...	70,000	75,000	...	1,18,383
Deduct Collection charges	3,500	3,750	...	5,919
Net Collections in the Revenue Department ...	66,500	71,250	...	1,12,464
Collections in the Public Works Department...	10·000	10,000	10,000	13,903
Total ...	76,500	81,250	10,000	1,26,367
TOTAL ...	2,16,500	2,25,250	1,29,160	2,65,687

840/19

REVENUE.

MEMORANDUM OF THE AMOUNTS TO BE CREDITED TO EACH PROJECT ON ACCOUNT OF IRRIGATION REVENUE AND SHARE OF ENHANCED LAND REVENUE DUE TO, OR DEPENDENT ON, THE WORKS, EXCLUDING COLLECTION CHARGES IN THE REVENUE DEPARTMENT.

	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Realizations 1884-85.
G. Revenue from Productive Public Works.	Rs.	Rs.	Rs.	Rs.
XXVII. Irrigation and Navigation (Direct Receipts).				
Imperial.				
Godávari Delta—				
Irrigation Revenue	17,25,000	17,00,000	16,50,000	16,68,856
Deduct Revenue due to old Irrigation	1,30,000	1,25,000	1,25,000	1,24,604
Revenue due to the System	15,95,000	15,75,000	15,25,000	15,44,252
Share of enhanced Land Revenue	1,50,000	1,45,000	1,45,000	1,47,096
Total ...	17,45,000	17,20,000	16,70,000	16,91,348
Deduct Collection Charges in the Civil Department	87,250	86,000	83,500	84,567
Net Revenue ...	16,57,750	16,34,000	15,86,500	16,06,781
Kistna Delta—				
Irrigation Revenue	10,00,000	9,50,000	9,50,000	10,16,039
Deduct Revenue due to old Irrigation	74,000	70,000	70,000	74,235
Revenue due to the System	9,26,000	8,80,000	8,80,000	9,41,804
Share of enhanced Land Revenue	1,28,000	1,25,000	1,25,000	1,27,769
Total ...	10,54,000	10,05,000	10,05,000	10,69,573
Deduct Collection Charges in the Civil Department	52,700	50,250	50,250	53,479
Net Revenue ...	10,01 300	9,54,750	9,54,750	10,16,094
Pennér Anicut—				
Irrigation Revenue	2,30,000	2,30,000	2,30,000	2,31,772
Deduct Revenue due to old Irrigation	1,20,000	1,20,000	1,20,000	1,18,771
Revenue due to the System	1,10,000	1,10,000	1,10,000	1,13,001
Share of enhanced Land Revenue	15,000	15,000	15,000	14,657
Total ...	1,25,000	1,25,000	1,25,000	1,27,658
Deduct Collection Charges in the Civil Department	6,250	6,250	6,250	6,383
Net Revenue ...	1,18,750	1,18,750	1,18,750	1,21,275
Sangam Anicut—				
Irrigation Revenue	1,00,000	1,00,000	1,00,000	...
Deduct Revenue due to old Irrigation	60,000	60,000	60,000	...
Revenue due to the System	40,000	40,000	40,000	...
Share of enhanced Land Revenue	2,000	2,000	2,000	...
Total ...	42,000	42,000	42,000	...
Deduct Collection Charges in the Civil Department	2,100	2,100	2,100	...
Net Revenue ...	39,900	39,900	39,900	...

REVENUE.

MEMORANDUM OF THE AMOUNTS TO BE CREDITED TO EACH PROJECT ON ACCOUNT OF IRRIGATION REVENUE AND SHARE OF ENHANCED LAND REVENUE DUE TO, OR DEPENDENT ON, THE WORKS, EXCLUDING COLLECTION CHARGES IN THE REVENUE DEPARTMENT—*continued*.

	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Realizations, 1884-85.
	Rs.	Rs.	Rs.	Rs.
G. Revenue from Productive Public Works—*cont.*				
XXVII. Irrigation and Navigation (Direct Receipts)—*cont.*				
Imperial—cont.				
Cauvery Delta—				
Irrigation Revenue	29,00,000	29,00,000	29,00,000	24,10,613
Deduct Revenue due to old Irrigation	23,50,000	23,50,000	23,50,000	23,53,288
Revenue due to the System	5,50,000	5,50,000	5,50,000	57,325
Share of enhanced Land Revenue	1,36,000	1,36,000	1,36,000	89,915
Total ...	6,86,000	6,86,000	6,86,000	1,47,240
Deduct Collection Charges in the Civil Department	34,300	34,300	34,300	7,362
Net Revenue ...	6,51,700	6,51,700	6,51,700	1,39,878
Srivaikuntham Anicut—				
Irrigation Revenue	1,80,000	1,60,000	1,80,000	1,65,795
Deduct Revenue due to old Irrigation	80,000	80,000	80,000	79,439
Revenue due to the System	1,00,000	80,000	1,00,000	86,356
Share of enhanced Land Revenue	2,000	2,000	2,000	2,277
Total ...	1,02,000	82,000	1,02,000	88,633
Deduct Collection Charges in the Civil Department	5,100	4,100	5,100	4,432
Net Revenue ...	96,900	77,900	96,900	84,201
Kurnool Canal—				
Irrigation Revenue	...	...	70,000	...
Deduct Collection Charges in the Civil Department	...	...	3,500	...
Net Revenue ...	...	...	66,500	...
Total—				
Irrigation Revenue	61,35,000	60,40,000	60,80,000	54,93,075
Deduct Revenue due to old Irrigation	28,14,000	28,05,000	28,05,000	27,50,337
Revenue due to the Systems	33,21,000	32,35,000	32,75,000	27,42,738
Share of enhanced Land Revenue	4,33,000	4,25,000	4,25,000	3,81,714
Total ...	37,54,000	36,60,000	37,00,000	31,24,452
Deduct Collection Charges in the Civil Department	1,87,700	1,83,000	1,85,000	1,56,223
Net Revenue ...	35,66,300	34,77,000	35,15,000	29,68,229

847
20

CHARGES.

ABSTRACT BUDGET ESTIMATE OF CHARGES FOR IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1886 TO 31ST MARCH 1887.

	Reference to Detailed Estimate.	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay, 1884-85.
		Rs.	Rs.	Rs.	Rs.
G. Expenditure on Productive Public Works (Revenue Account).					
38. IRRIGATION AND NAVIGATION (WORKING AND MAINTENANCE).					
Imperial.					
I.—Extensions and Improvements. In progress ... Rs. 10,180					
I.—Extensions and Improvements. Not commenced. 1,01,404	...	1,11,584	1,13,987	1,24,714	1,08,647
II.—Maintenance and Repairs	...	4,60,398	5,01,359	4,59,798	4,97,194
III.—Establishment	...	3,47,716	3,53,230	3,41,554	3,22,126
IV.—Tools and Plant	...	80,302	76,934	73,934	69,464
V.—Refunds of Revenue	...	...	...	...	1,565
Total Working and Maintenance ...	...	10,00,000	10,45,510	10,00,000	9,98,996
N. Capital Expenditure not charged against Revenue.					
51. IRRIGATION AND NAVIGATION.					
I.—Works. In progress ... ... Rs. 12,23,550					
I.—Works. Not commenced	...	12,23,550	11,44,857	[illegible]	13,31,665
II.—Establishment	...	2,63,600	2,36,722	[illegible]	2,75,654
III.—Tools and Plant	...	17,850	75,321	[illegible]	79,629
V.—Receipts on Capital Account	...	...	...	...	[illegible]
Total Capital Expenditure ...	...	15,05,000	14,57,000	18,20,000	16,10,444

CHARGES.

PART I.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87, ARRANGED BY PROJECTS AND OBJECTS OF WORK.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1884-85.	Budget Estimate, 1885-86.	Probable Outlay during 1885-86 (Revised Estimate).	Budget Estimate, 1886-87.	Remarks and References.
	Rs.	Rs.	Rs.	Rs.	Rs.	
38. PRODUCTIVE PUBLIC WORKS (REVENUE ACCOUNT) WORKING AND MAINTENANCE.						
Imperial.						
Godávari Delta ...	...	...	4,04,400	4,71,336	4,20,000	
Kistna do. ...	...	...	3,88,669	2,92,282	3,12,000	
Pennér Anicut ...	...	...	16,445	16,444	16,500	
Sangam do. ...	...	...	27,350	12,590	28,000	
Kurnool Canal ...	...	...	2,30,530	1,92,381	1,90,000	
Cauvery Delta ...	...	...	12,130	42,691	13,000	
Srivaikuntham Anicut ...	...	...	20,476	17,786	20,500	
Total ...	...	...	10,00,000	10,45,510	10,00,000	
51. CAPITAL EXPENDITURE NOT CHARGED AGAINST REVENUE.						
Works in Progress.						
Godávari Delta System ...	1,10,8[illegible]695	1,00,10,029	3,95,000	2,78,504	3,36,000	Government of India Register No. 3 I. of 1882-83. Proceedings of Madras Government, No. 514 I., of 4th July 1883, and No. 854 I., of 23rd October 1882.
Kistna Delta System ...	1,38,9[illegible],784	64,78,919	5,38,700	3,77,613	4,80,000	Government of India Register No. 8 I. of 1884-85. Proceedings of Madras Government, No. 562 I., of 22nd September 1884.
Pennér Anicut do. ...	16,1[illegible],789	14,20,775	...	37,000	73,000	Government of India Register No. 4 I. of 1885-86. Proceedings of Madras Government, No. 526 I., of 19th June 1885.
Sangam Anicut do. ...	28,9[illegible],497	19,67,120	5,05,000	4,12,906	3,77,000	Government of India Register No. 4 I. of 1881-82. Proceedings of Madras Government, No. 352 I., of 2nd June 1881.
Bazar Tank	3,20,000	1,62,452	1,21,000	90,777	1,16,000	Government of India Register No. 1 of 1882-84. Proceedings of Madras Government No. 714 I., of 3rd September 1883. Revised estimate, amounting to Rs. 4,60,000, submitted to Government of India, *vide* Proceedings of Madras Government, No. 748 I., of 1st September 1885.
Cauvery Delta System ...	16,59,305	13,15,429	2,03,300	2,30,360	1,01,000	Government of India Register No. 19 I. of 1884-85. Proceedings of Madras Government, No. 316 I., of 26th March 1885.
Srivaikuntham Anicut System.	13,61,520	13,04,260	37,000	9,840	22,000	Government of India Register No. 10 I. of 1883-84. Proceedings of Madras Government, No. 863 I., of 3rd November 1883.
Kurnool Canal	1,75,62,464	1,75,62,464	20,000	20,000	...	Proceedings of Madras Government, No. 993 I., of 6th December 1883.
Total ...	5,04,00,991	4,04,21,448	18,20,000	14,57,000	15,05,000	

CHARGES.

PART I—continued.

ABSTRACT OF CHARGES TO BE INCURRED FROM IMPERIAL AND PROVINCIAL FUNDS AND CONTRIBUTIONS.

	Budget Estimate, 1886-87.							Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay, 1884-85.
	Works			Repairs.	Establishment.	Tools and Plant.	Total.			
	In progress.	Not commenced.	Total.							
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
38. PRODUCTIVE PUBLIC WORKS (REVENUE ACCOUNT) WORKING AND MAINTENANCE.										
Imperial.										
In India	10,180	1,01,404	1,11,584	4,60,398	3,46,816	81,202	10,00,000	10,45,510	10,00,000	9,98,996
In England	...	...	...	...	...	...	...	...	...	...
Total ...	10,180	1,01,404	1,11,584	4,60,398	3,46,816	81,202	10,00,000	10,45,510	10,00,000	9,98,996
51. CAPITAL EXPENDITURE NOT CHARGED AGAINST REVENUE.										
In India	12,23,550	...	12,23,550	...	2,63,600	17,850	15,05,000	13,93,360	17,60,000	16,00,142
In England		...	...	...	...	...	...	63,640	60,000	10,302
Total ...	12,23,550	...	12,23,550	...	2,63,600	17,850	15,05,000	14,57,000	18,20,000	16,10,444
GRAND TOTAL ...	12,33,730	1,01,404	13,35,134	4,60,398	6,10,416	99,052	25,05,000	25,02,510	28,20,000	26,09,440
Provincial and Local.										
Nil.										

CHARGES.

PART I—concluded.

BUDGET ESTIMATE OF EXPENDITURE IN ENGLAND ON IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87, ARRANGED BY PROJECTS AND OBJECTS OF WORK.

	Budget Estimate, 1886-87.				Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay, 1884-85.
	Works.	Tools and Plant.	Suspense.	Total.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
51. CAPITAL EXPENDITURE NOT CHARGED AGAINST REVENUE.							
Works in Progress.							
Godávari Delta System	...	...	...	...	4,500	4,500	2,600
Kistna Delta System	...	...	...	...	39,140	35,500	2
Sangam Anicut System...	...	...	...	...	...	...	680
Kurnool Canal	...	...	...	...	20,000	20,000	7,020
Total	...	...	...	...	63,640	60,000	10,302

847/22

CHARGES.

PART IV.

DETAIL OF THE BUDGET ESTIMATE FOR ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87.

Number.		Particulars.	Rate of salary.	1886-87.			Revised Estimate for 1885-86.
1885-86.	1886-87.			Per mensem.	Per annum.	Total.	
			Rs.	Rs.	Rs.	Rs.	Rs.
...	...	Grant for Works and Repairs	...	...	...	17,95,532	17,60,303
		Deduct items for which no charge for establishment is admissible.					
...	...	Land compensation	...	...	...	77,463	95,743
...	...	Expenditure in England in connection with the purchase of the Kurnool canal	...	...	...	...	20,000
...	...	Payment to the Telegraph Department for maintenance and supervision of Kurnool canal telegraph line	...	...	...	10,000	10,000
		Total, Deductions ...	...	...	...	87,463	1,25,743
		Net Grant ..	...	...	...	17,08,069	16,34,560
...	...	A. 23 per cent. on the Net Grant	...	...	...	3,92,856	3,75,952
...	...	Direct Revenue	...	...	...	2,16,500	2,25,250
...	...	*Deduct* estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool canal	...	...	...	66,500	71,250
		Net Revenue ...	...	...	...	1,50,000	1,54,000
...	...	B. 10 per cent. on Net Direct Revenue	...	...	...	15,000	15,400
...	...	Indirect Revenue exclusive of enhanced share of Land Revenue	...	...	...	33,21,000	32,35,000
...	...	*Add* estimated collections in the Revenue Department of water-rates levied on lands irrigated under the Kurnool canal	...	...	...	70,000	75,000
		Total ...	...	...	...	33,91,000	33,10,000
...	...	C. 6 per cent. on Indirect Revenue	...	...	...	2,03,460	1,98,600
		Total A + B + C ..	...	...	...	6,11,316	5,89,952

PART VII.

ABSTRACT OF THE PROBABLE INCREASE OR DECREASE IN THE SUSPENSE ACCOUNTS OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87.

Nil.

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

APPENDIX A.

ACTUAL AND ESTIMATED CAPITAL ACCOUNT OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1886-87.

	Direct Charges.			Indirect Charges.				
	Capital Expenditure not charged against Revenue.	Capital Expenditure charged against Revenue.	Total.	Capitalisation of abatement of Land Revenue.	Exchange on payments in England.	Leave and Pension Allowances.	Total.	Grand Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godavari Delta System.								
Total actual outlay to end of 1884-85	100,10,029	...	100,10,029	14,51,787	....	3,71,361	18,23,148	118,33,177
Probable outlay during 1885-86 ...	2,78,504	...	2,78,504	10,652	...	6,872	17,524	2,96,028
Proposed outlay during 1886-87 ...	3,36,000	...	3,36,000	10,150	...	8,584	18,734	3,54,734
Total ...	106,24,533	...	106,24,533	14,72,589	...	3,86,817	18,59,406	124,83,939
Kistna Delta System.								
Total actual outlay to end of 1884-85	66,78,919	...	66,78,919	2,29,357	...	2,53,132	4,82,489	71,61,408
Probable outlay during 1885-86 ...	3,77,613	...	3,77,613	26,554	...	8,074	34,628	4,12,241
Proposed outlay during 1886-87 ...	4,80,000	...	4,80,000	33,857	...	11,518	45,375	5,25,375
Total ...	75,36,532	...	75,36,532	2,89,768	...	2,72,724	5,62,492	80,99,024
Penner Anicut System.								
Total actual outlay to end of 1884-85	14,20,775	...	14,20,775	1,77,098	...	59,199	2,36,297	16,57,072
Probable outlay during 1885-86 ...	37,000	...	37,000	...	...	969	969	37,969
Proposed outlay during 1886-87 ...	73,000	...	73,000	625	...	1,898	2,523	75,523
Total ...	15,30,775	...	15,30,775	1,77,723	...	62,066	2,39,789	17,70,564
Sangam Anicut System.								
Total actual outlay to end of 1884-85	19,67,120	...	19,67,120	35,856	...	46,553	82,409	20,49,529
Probable outlay during 1885-86 ...	4,12,906	...	4,12,906	80,597	...	8,823	89,420	5,02,326
Proposed outlay during 1886-87 ...	3,77,000	...	3,77,000	50,000	...	8,694	58,694	4,35,694
Total ...	27,57,026	...	27,57,026	1,66,453	...	64,070	2,30,523	29,87,549
Barur Tank Project.								
Total actual outlay to end of 1884-85	1,62,452	...	1,62,452	8,051	...	4,263	12,314	1,74,766
Probable outlay during 1885-86 ...	90,777	...	90,777	625	...	2,247	2,872	93,649
Proposed outlay during 1886-87 ...	1,16,000	...	1,16,000	2,196	...	2,991	5,187	1,21,187
Total ...	3,69,229	...	3,69,229	10,872	...	9,501	20,373	3,89,602
Cauvery Delta System.								
Total actual outlay to end of 1884-85	13,15,429	...	13,15,429	60,760	...	48,074	1,08,384	14,23,813
Probable outlay during 1885-86 ...	2,30,360	...	2,30,360	1,250	...	5,900	7,150	2,37,510
Proposed outlay during 1886-87 ...	1,01,000	...	1,01,000	...	...	2,644	2,644	1,03,644
Total ...	16,46,789	...	16,46,789	62,010	...	56,618	1,18,628	17,64,967
Srivaikuntham Anicut System.								
Total actual outlay to end of 1884-85	13,04,260	...	13,04,260	39,765	...	59,033	98,798	14,03,058
Probable outlay during 1885-86 ...	9,840	...	9,840	...	...	258	258	10,098
Proposed outlay during 1886-87 ...	22,000	...	22,000	...	...	576	576	22,576
Total ...	13,36,100	...	13,36,100	39,765	...	59,867	99,632	14,35,732
Kurnool Canal.								
Total actual outlay to end of 1884-85	175,62,464	...	175,62,464	...	...	...	...	175,62,464
Probable outlay during 1885-86 ...	20,000	...	20,000	...	...	...	...	20,000
Proposed outlay during 1886-87 ...	...	...	...	...	...	...	...	...
Total ...	175,82,464	...	175,82,464	...	...	...	...	1,75,82,464

847/23

APPENDIX B.

ACTUAL AND ESTIMATED REVENUE ACCOUNT OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF 1886-87.

	Probable Receipts, 1886-87.			Probable Expenses during 1886-87 (including indirect charges).	Balance, Surplus or Deficit, 1886-87.	Probable Net Surplus or Deficit, 1885-86.	Actual Net Surplus or Deficit to end of 1884-85.	Probable Net Surplus or Deficit to end of 1886-87.
	Direct Receipts.	Irrigation Revenue inclusive of share of enhanced Land Revenue.	Total.					
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Godávari Delta System	1,00,000	16,57,750	17,57,750	4,42,043	13,15,707	12,43,354	262,05,211	287,64,272
Kistna Delta System	30,000	10,01,300	10,31,300	3,25,930	7,05,370	6,78,731	118,25,991	132,10,092
Pennér Anicut System	250	1,18,750	1,19,000	17,671	1,01,329	1,01,385	15,07,686	17,10,400
Sangam Anicut System	...	39,900	39,900	28,996	10,904	26,717	...	37,621
Cauvery Delta System	8,500	6,51,700	6,60,200	17,158	6,43,042	6,12,967	148,26,017	160,82,026
Srivaikuntham Anicut System ...	1,250	96,900	98,150	21,726	76,424	60,536	5,09,388	6,46,348
Kurnool Canal ...	76,500	...	76,500	1,95,156	— 1,18,656	— 1,16,400	— 3,06,447	— 5,41,503
Total ...	2,16,500	35,66,300	37,82,800	10,48,680	27,34,120	26,07,290	5,45,67,846	5,99,09,256

APPENDIX C.

ACTUAL AND ESTIMATED INTEREST ACCOUNT OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY TO END OF 1886-87.

	Actual charges for interest to end of 1884-85.	Probable charges for interest for 1885-86.	Probable charges for interest for 1886-87.	Total to end of 1886-87.	Net surplus or deficit from Appendix B.	Balance of interest charges remaining unpaid to end of 1886-87.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Gadávari Delta System ...	89,46,002	4,05,971	4,18,261	97,70,234	287,64,272	[illegible],94,038
Kistna Delta System	53,19,958	2,74,709	2,91,861	58,86,528	132,10,092	73,23,564
Pennér Anicut system	11,88,517	57,571	59,771	13,05,859	17,10,400	4,04,541
Sangam Anicut System ...	1,33,915	86,943	1,02,741	3,23,599	37,621	— 2,85,978
Cauvery Delta System ...	12,54,109	57,224	63,852	13,75,185	160,82,026	147,06,841
Srivaikuntham Anicut System...	6,95,024	52,367	53,004	8,00,395	6,46,348	— 1,54,047
Kurnool Canal	17,61,550	7,02,899	7,03,299	31,67,748	—5,41,503	—37,09,251
Barur Tank Project	7,763	8,314	12,449	28,526	...	— 28,526
Total ...	1,93,06,838	16,45,998	17,05,238	226,58,074	5,99,09,256	3,72,51,182

PRELIMINARY ISSUE.

847
24

IRRIGATION AND NAVIGATION.
WORKS NOT CLASSED AS
PRODUCTIVE.

MADRAS PRESIDENCY.

PUBLIC WORKS DEPARTMENT.

BUDGET ESTIMATE

OF

IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE,

IN THE

MADRAS PRESIDENCY,

FOR THE YEAR

1886-87.

(Signed) H. L. PRENDERGAST, Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

2nd January 1886.

847/25

CONTENTS.

PAGE

BUDGET ESTIMATE OF REVENUE 2

ABSTRACT BUDGET ESTIMATE OF EXPENDITURE 3

DETAILS OF THE BUDGET ESTIMATE OF EXPENDITURE—

PART I.—DETAIL OF THE BUDGET ESTIMATE OF EXPENDITURE ARRANGED BY PROJECTS AND OBJECTS OF WORK 5

„ IV.—DETAIL OF THE BUDGET ESTIMATE FOR ESTABLISHMENT 10

„ VII.—DETAIL OF ESTIMATE OF SUSPENSE BALANCES 16

APPENDICES TO ABOVE—

APPENDIX A.—Actual and Estimated Capital Account to end of year 17

„ B.—Ditto ditto Revenue ditto 18

„ D.—Estimated Account of Total Receipts and Total Disbursements of the Irrigation Branch of the Presidency 19

REVENUE.

BUDGET ESTIMATE OF REVENUE FROM IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1886 TO 31ST MARCH 1887.

	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Realizations, 1884-85.
	Rs.	Rs.	Rs.	Rs.
H. RECEIPTS ON ACCOUNT OF PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.				
XXXI.—Irrigation and Navigation.				
IMPERIAL.				
Ordinary, Irrigation and Navigation Works.				
Works for which Capital and Revenue Accounts are kept.				
Chembrambakam Tank	20	20	65	19
Pálár Anicut System	980	980	1,000	882
Total ...	1,000	1,000	1,065	901
Works for which neither Capital nor Revenue Accounts are kept	13,000	13,000	12,000	13,108
Agricultural Works	6,000	6,000	10,000	5,100
Total, Imperial ..	20,000	20,000	23,065	19,109
PROVINCIAL.				
Madras Water-supply and Irrigation Extension Project	5,500	5,000	5,000	5,529
Buckingham Canal	48,000	48,000	44,300	47,188
Vedarniem Canal	250	...	...	...
Total, Provincial ..	53,750	53,000	49,300	52,717
GRAND TOTAL ..	73,750	73,000	72,365	71,826

847/26

CHARGES.

ABSTRACT BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1886 TO 31ST MARCH 1887—*cont.*

	Reference to Detailed Estimate.	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay, 1884-85.
		Rs.	Rs.	Rs.	Rs.
F. FAMINE RELIEF AND INSURANCE.					
34. PROTECTIVE WORKS.					
(CAPITAL ACCOUNT.)					
I.—WORKS ... {In progress ... ... Rs. 3,70,000; Not commenced ... ...}		3,70,000	3,59,493	3,52,602	2,02,833
II.—ESTABLISHMENT		46,460	29,507	37,398	—4,163
III.—TOOLS AND PLANT		13,540	11,000	10,000	21,953
Total Protective Works ..		4,30,000	4,00,000	4,00,000	2,20,623
H. EXPENDITURE ON PUBLIC WORKS NOT CLASSED AS PRODUCTIVE.					
44. IRRIGATION AND NAVIGATION.					
IMPERIAL.					
ORDINARY IRRIGATION AND NAVIGATION WORKS.					
Works for which Capital and Revenue Accounts are kept.					
CAPITAL.					
I.—WORKS ... {In progress ... ... Rs. 50,500; Not commenced ... .}		50,500	61,146	61,146	10,039
II.—ESTABLISHMENT		11,615	13,054	13,054	2,279
III.—TOOLS AND PLANT		885	800	800	...
Total Capital ...		63,000	75,000	75,000	12,318
REVENUE.					
I.—EXTENSIONS AND IMPROVEMENTS {In progress ... ... Rs. 7,212; Not commenced ... 3,039}		10,251	7,480	6,480	4,068
II.—MAINTENANCE AND REPAIRS		34,981	79,436	30,436	43,315
III.—ESTABLISHMENT		10,504	20,090	8,596	10,734
IV.—TOOLS AND PLANT		264	494	488	—214
Total Revenue ...		56,000	1,07,500	46,000	57,903
Total Works for which Capital and Revenue Accounts are kept		1,19,000	1,82,,500	1,21,000	70,221
Works for which neither Capital nor Revenue Accounts are kept.					
I.—WORKS— MAJOR {In progress ... Rs. 31,215; Not commenced ...} MINOR ... ... Rs. 2,92,039		3,23,254	2,56,179	2,72,941	2,64,310
II.—REPAIRS		11,30,972	10,03,204	12,11,972	11,63,243
III.—ESTABLISHMENT		5,85,202	5,12,783	5,41,288	4,89,531
IV.—TOOLS AND PLANT		19,872	16,555	17,799	21,901
V.—REFUNDS OF REVENUE		...	...	...	219
Total Works for which neither Capital nor Revenue Accounts are kept		20,59,300	17,88,721	20,44,000	19,39,604
Total Ordinary Irrigation and Navigation Works ...		21,78,300	19,71,221	21,65,000	20,09,825

CHARGES.

ABSTRACT BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR FROM 1ST APRIL 1886 TO 31ST MARCH 1887—*cont.*

	Reference to Detailed Estimate.	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay, 1884-85.
		Rs.	Rs.	Rs.	Rs.
Agricultural Works.					
Works for which neither Capital nor Revenue Accounts are kept.					
I.—Works—					
Major. In progress ... ... Rs. ... 80,074					
Minor. Not commenced 32,700					
... ... 15,000					
II.—Repairs		1,31,774	1,49,076	1,75,967	1,37,192
III.—Establishment		1,50,000	1,92,197	1,70,000	1,97,798
IV.—Tools and Plant		65,408	79,093	80,573	75,814
V.—Refunds of Revenue		2,818	3,413	3,460	3,271
		...	...	...	1,126
Total Agricultural Works ...		3,50,000	4,23,779	4,30,000	4,15,131
Total Imperial ...		25,28,300	23,95,000	25,95,000	24,24,956
PROVINCIAL.					
Ordinary Irrigation and Navigation Works.					
Works for which Capital and Revenue Accounts are kept.					
Capital.					
I.—Works ... In progress ... ... Rs. ... 1,80,516					
Not commenced					
II.—Establishment		1,80,516	1,58,295	1,69,150	1,58,796
III.—Tools and Plant		1,27,984	1,21,497	73,405	1,09,476
		5,500	15,028	6,445	18,789
Total Capital ...		3,14,000	2,94,820	2,49,000	2,87,061
Revenue.					
I.—Extensions and Improvements. In progress ... ... Rs.					
Not commenced ... 2,997					
II.—Maintenance and Repairs		2,997	2,601	2,397	— 45
III.—Establishment		1,15,134	2,62,257	86,233	1,17,666
IV.—Tools and Plant		32,545	66,218	25,315	32,245
V.—Refunds of Revenue		824	4,755	55	7,817
		...	...	...	234
Total Revenue ...		1,51,500	3,35,831	1,14,000	1,57,917
Total Provincial ...		4,65,500	6,30,651	3,63,000	4,44,978
GRAND TOTAL ...		29,93,800	30,25,651	29,58,000	28,69,934
GRAND TOTAL, 44. IRRIGATION AND NAVIGATION.					
Works ... In progress ... ... Rs. ... 3,53,517					
Not commenced					
Repairs		6,99,292	6,34,777	6,88,081	5,74,760
Establishment		14,31,087	15,37,094	14,98,641	15,21,952
Tools and Plant		8,33,258	8,12,735	7,42,231	7,20,079
Refunds of Revenue		30,163	41,045	29,047	51,564
		...	...	...	1,579
		29,93,800	30,25,651	29,58,000	28,69,934

CHARGES.

PART I.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR 1885-86, ARRANGED BY PROJECTS AND OBJECTS OF WORK.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1884-85.	Budget Estimate, 1885-86.	Probable Outlay during 1885-86 (Revised Estimate).	Budget Estimate, 1886-87.	Remarks and References.
	Rs.	Rs.	Rs.	Rs.	Rs.	
34. PROTECTIVE WORKS.						
(Capital Account.)						
Rushikulya Project	26,01,386	1,44,682	2,50,000	2,50,000	2,80,000	Government of India Register No. 16 I. of 1882-83. P.M.G., No. 147 I., dated 13th February 1883.
Buckingham Canal	...	2,82,899	1,50,000	1,50,000	1,50,000	
Total ..	...	...	4,00,000	4,00,000	4,30,000	
44. IRRIGATION AND NAVIGATION.						
IMPERIAL.						
Ordinary Irrigation and Navigation Works.						
Works for which Capital and Revenue Accounts are kept.						
Capital.						
Works in Progress.						
Pálár Anicut System	18,94,915	16,00,742	50,000	50,000	50,000	Government of India Register No. 17 I. of 1884-85. *Vide* P.M.G., No. 85 I., dated 29th January 1885.
Pelandorai Anicut System ...	4,05,000	3,60,307	25,000	25,000	13,000	Government of India Register No. 5 I. of 1884-85. *Vide* P.M.G., No. 626 I., dated 3rd July 1884.
Total Capital ..	22,99,915	19,61,049	75,000	75,000	63,000	
Revenue.						
Chembrambakam Tank ...	...	...	— 1,000	16,220	2,050	
Pálár Anicut System	...	...	34,500	58,098	39,000	
Pelandorai Anicut System ...	...	...	12,500	33,182	14,950	
Total Revenue ..	...	...	46,000	1,07,500	56,000	
Total Works for which Capital and Revenue Accounts are kept.	...	...	1,21,000	1,82,500	1,19,000	
Works for which neither Capital nor Revenue Accounts are kept.						
Works in progress	...	...	20,44,000	17,88,721	20,59,300	
Works not commenced	...	...				
Total Ordinary Irrigation and Navigation Works ..	...	...	21,65,000	19,71,221	21,78,300	
Agricultural Works.						
Works for which neither Capital nor Revenue Accounts are kept.						
Major Original Works.						
In Progress.						
Gowtami Godávari L.B. Rajahmundry to Yanam.	57,990	41,555	12,000	4,040	4,174	P.M.G., No. 2575 I., dated 27th September 1876.
Vasista Godávari L.B. to Gunnaram aqueduct.	34,400	27,333	4,000	4,000	3,000	P.M.G., No. 3373, dated 12th December 1876.

CHARGES.

PART I—continued.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS, NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87, ARRANGED BY PROJECTS AND OBJECTS OF WORK—*continued*.

	Amount of Sanctioned Estimate.	Actual Outlay to end of 1884-85.	Budget Estimate, 1885-86.	Probable Outlay during 1885-86 (Revised Estimate).	Budget Estimate, 1886-87.	Remarks and References.
	Rs.	Rs.	Rs.	Rs.	Rs.	
Agricultural Works—*cont.*						
Works for which neither Capital nor Revenue Accounts are kept—cont.						
Major Original Works—cont. *In Progress*—cont.						
Gowtami Godávari and Vridhi Gowtami Godávari R.B. to Mokaltippa.	68,670	49,882	5,000	3,857	5,000	P.M.G., No. 346 I., dated 25th September 1877.
Vasista Godávari L.B. below Gunnaram aqueduct.	28,535	14,815	5,000	8,000	5,000	P.M.G., No. 349 I., dated 17th September 1877.
Vynatiyam Godávari R.B. ...	9,925	3,000	3,000	3,000	3,900	P.M.G., No. 518 I., dated 22nd November 1877.
Do. do. L.B. ...	9,675	1,649	3,000	...	3,000	Do. do. do.
Godávari R.B. Vigishweram to Polavaram.	1,52,755	1,43,015	2,700	2,500	7,000	P.M.G., No. 232 I., dated 6th March 1885.
Vasista Godávari R.B. from anicut to Narsapur lock.	65,200	65,415	1,600	300	...	P.M.G., No. 715 I., dated 6th December 1879.
Kistna river L.B. below anicut.	55,464	47,585	1,350	1,350	6,000	P.M.G., No. 814 I., dated 13th October 1882.
Stone groynes at Penumudi ...	13,360	6,722	2,320	2,896	4,000	P.M.G., No. 363 I., dated 13th April 1885.
Pennér river L.B. Sángam to Moldevi.	1,99,360	...	...	20,000	15,000	P.M.G., No. 448 I., dated 13th May 1885.
Coleroon L.B. from Upper anicut to Coleroon bridge.	27,790	...	10,000	8,000	10,000	P.M.G., No. 356 I., dated 31st March 1884.
Tambraparni R.B. below Srívaikuntham anicut.	83,598	41,722	20,000	11,641	10,000	P.M.G., No. 351 I., dated 26th April 1883.
Tambraparni L.B. below Srívaikuntham anicut from 7½ miles to sea.	35,712	2,059	15,000	11,500	8,000	Do. do. do.
Works not commenced.						
Gowtami embankment, fixing boundary stores.	2,700	...	...	...	2,700	P.M.G., No. 347 I., dated 1st September 1885.
Koriar embankment	15,490	...	...	...	8,000	P.M.G., No. 679 I., dated 5th August 1885.
Coleroon R.B. from road No. 4 Velangudi to the Lower Coleroon anicut.	1,14,000	...	...	...	9,000	P.M.G., No. 881 I., dated 16th October 1885.
Cheyár north embankments ...	...	...	...	...	10,000	Estimates received.
Do. head-sluice ...	...	...	...	...	3,000	
Other Works	...	...	...	53,190	...	
Total Major Original Works...	..	...	...	1,34,274	1,16,774	
Minor Original Works	...	...	...	14,802	15,000	
Repairs	...	...	...	1,92,197	1,50,000	
Establishment	...	...	...	79,093	65,408	
Tools and Plant	...	...	...	3,413	2,818	
Total Agricultural Works ...	...	...	...	4,23,779	3,50,000	
Total Imperial ...	...	...	...	23,95,000	25,28,300	

8427/28

CHARGES.

PART I—continued.

BUDGET ESTIMATE OF EXPENDITURE ON IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87, ARRANGED BY PROJECTS AND OBJECTS OF WORK—*continued*.

	Amount of Sanctioned Estimates.	Actual Outlay to end of 1884-85.	Budget Estimate, 1885-86.	Probable Outlay during 1885-86 (Revised Estimate).	Budget Estimate, 1886-87.	Remarks and References.
	Rs.	Rs.	Rs.	Rs.	Rs.	
PROVINCIAL.						
Works for which Capital and Revenue Accounts are kept.						
CAPITAL.						
Works in Progress.						
Buckingham Canal	86,12,000	54,69,471	2,24,000	1,97,290	2,24,000	Government of India Register No. 15 I. of 1883-84. P.M.G., No. 625 I., dated 9th August 1883 and No. 195 I., dated 16th Feb. 1884.
Madras Water-supply and Irrigation Extension Project.	15,80,995	15,15,827	25,000	12,085	18,000	Government of India Register No. 16 I. of 1883-84. P.M.G., No. 307 I., dated 19th March 1884.
Ganjam-Gopálpur Canal ...	3,950	...	...	...	4,000	P.M.G., No. 446 I., dated 13th May 1885.
Chilka Lake Canal	30,000	...	...	12,915	10,000	P.M.G., No. 45 I., dated 15th January 1885.
B. Project division	...	...	...	17,349	17,000	
C. Project do.	...	...	...	17,404	18,000	
Lower Coleroon anicut Irrigation Project division.	33,734	...	...	29,110	23,000	
Reserve	...	...	...	8,667	...	
Total Capital ...	...	...	2,49,000	2,94,820	3,14,000	P.M.G., No. 1009 I., dated 27th November 1885.
REVENUE.						
Buckingham Canal	...	...	95,000	1,36,385	96,000	
Madras Water-supply and Irrigation Extension Project.	...	...	19,000	1,99,195	48,500	
Vedarniem Canal	...	...	...	...	7,000	
West Coast Canal	...	...	...	251	...	
Total Revenue ...	...	...	1,14,000	3,35,831	1,51,500	
Total Provincial ...	...	...	3,63,000	6,30,651	4,65,500	
Total 44. Irrigation and Navigation ...	...	...	29,58,000	30,25,651	29,93,800	

IRRIGATION AND NAVIGATION.
WORKS NOT CLASSED AS PRODUCTIVE.

CHARGES.

PART I—continued.

ABSTRACT OF CHARGES TO BE INCURRED FROM IMPERIAL AND PROVINCIAL FUNDS.

	Budget Estimate, 1886-87.								Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay in 1884-85.
	Works			Repairs.	Establishment.	Tools and Plant.	Suspense.	Total.			
	In progress.	Not commenced.	Total.								
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
34. PROTECTIVE WORKS.											
In India	3,70,000	...	3,70,000	...	46,460	13,540	...	4,30,000	4,00,000	4,00,000	2,20,623
In England	...	...	...	...	...	...	...	...	...	...	...
Total, 34. Protective Works ...	3,70,000	...	3,70,000	...	46,460	13,540	...	4,30,000	4,00,000	4,00,000	2,20,623
44. IRRIGATION AND NAVIGATION.											
IMPERIAL.											
In India	1,73,001	3,42,778	5,15,779	13,15,953	6,72,729	23,839	—19,499	25,08,801	23,95,000	25,85,000	24,24,303
In England	...	...	...	...	...	...	19,499	19,499	...	10,000	653
Total ...	1,73,001	3,42,778	5,15,779	13,15,953	6,72,729	23,839	...	25,28,300	23,95,000	25,95,000	24,24,956
PROVINCIAL.											
In India	1,80,516	2,997	1,83,513	1,15,134	1,60,529	6,324	...	4,65,500	6,30,651	3,63,000	4,44,978
In England	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,80,516	2,997	1,83,513	1,15,134	1,60,529	6,324	...	4,65,500	6,30,651	3,63,000	4,44,978
TOTAL, 44. IRRIGATION AND NAVIGATION ...	3,53,517	3,45,775	6,99,292	14,31,087	8,33,258	30,163	...	29,93,800	30,25,651	29,58,000	28,69,934

MADRAS PRESIDENCY.

947/29

IRRIGATION AND NAVIGATION.
WORKS NOT CLASSED AS PRODUCTIVE.

CHARGES.

PART I—continued.

BUDGET ESTIMATE OF EXPENDITURE IN ENGLAND ON IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87 ARRANGED BY PROJECTS AND OBJECTS OF WORK.

	Budget Estimate, 1886-87.				Revised Estimate, 1885-86.	Budget Estimate, 1885-86.	Actual Outlay, 1884-85.
	Works.	Tools and Plant.	Suspense.	Total.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
44. IRRIGATION AND NAVIGATION.							
Ordinary Irrigation and Navigation Works.							
Works for which neither Capital nor Revenue Accounts are kept.							
Works in Progress	...	...	19,499	19,499	...	10,000	...
Works not commenced	...	...	...	...	...	...	...
TOTAL, 44. IRRIGATION AND NAVIGATION WORKS ..	...	...	19,499	19,499	...	10,000	...

CHARGES.

PART IV.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87.

Number. 1885-86.	Number. 1886-87.	Particulars.	Rate of salary.	Budget Estimate for 1886-87. Per mensem.	Per annum.	Total.	Revised Estimate for 1885-86.
		34. PROTECTIVE WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.
		Total Grant for Works	...	...	...	3,70,000	3,59,493
		Deduct items for which no charge for establishment is admissible.					
		Compensation for land	...	...	...	18,000	81,200
		Grant-in-aid for the Buckingham Canal	...	...	...	1,50,000	1,50,000
		Total Deductions ...	...	...	...	1,68,000	2,31,200
		Net Grant ...	...	...	...	2,02,000	1,28,293
		Contribution to Provincial Funds at 23 per cent. on the net grant	...	...	...	46,460	29,507
		44. IRRIGATION AND NAVIGATION.					
		Imperial.					
		Total Grant for Works and Repairs	...	...	...	18,31,732	17,48,718
		Deduct items on which no establishment charge is inadmissible.					
		Grant for land compensation	...	...	...	...	4,392
		Grant for expenditure in the Tank divisions in which the cost of the actual establishment employed is debited to Irrigation	...	...	...	72,000	30,140
		Grant for repairs to minor irrigation works under the charge of Collectors	...	...	...	2,75,000	2,73,702
		Total Deductions ...	...	...	...	3,47,000	3,08,234
		Net Grant for Works and Repairs ...	...	...	...	14,84,732	14,40,484
		A. Contribution to Provincial Funds on account of establishment at 23 per cent. on the net grant.	...	...	...	3,41,489	3,31,312
		Estimate of Direct Revenue ...	...	...	...	20,000	20,000
		B. Contribution to Provincial Funds at 10 per cent. of the estimate of Direct Revenue ...	...	...	...	2,000	2,000
		Revenue due to old Irrigation under Productive Public Works	...	...	...	28,14,000	28,05,000
		C. 6 per cent. on Net Amount	...	...	...	1,68,840	1,68,300
		Total A + B + C ...	...	...	...	5,12,329	5,01

847/30

CHARGES.

PART IV—continued.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87—*continued*.

Number. 1885-86.	Number. 1886-87.	Particulars.	Rate of salary.	Budget Estimate for 1886-87. Per mensem.	Per annum.	Total.	Revised Estimate for 1885-86.
		44 IRRIGATION AND NAVIGATION—continued.	Rs.	Rs.	Rs.	Rs.	Rs.
		Imperial—continued.					
		Special Establishment for investigating requirements of Tanks systematically.					
		DIRECTION.					
1	1	Superintending Engineer	1,441	1,441			
1	1	Accountant	..	70			
1	1	Clerk, 1st Class, 3rd Grade	210	210			
1	1	Do. 3rd do. 1st do.	80	80			
2	2	Clerks, 4th do. 2nd do.	30	60			
1	1	Clerk, 4th do. 3rd do.	20	20			
1	1	Do. 5th do. 1st do.	15	15			
1	1	Reference Picker	12	12			
1	1	Draftsman, Special	80	80			
1	1	Do. 1st Class	50	50			
3	3	Do. 2nd do.	35	105			
1	1	Moochee	10	10			
1	1	Messenger	7	7			
2	2	Messengers	6	12			
3	3	Lascars	6	18			
		Total, Establishment	...	2,190	26,280		
		Travelling Allowance	...	...	1,920		
		Contingencies	...	...	1,200		
						29,400	
		No. I TANK DIVISION, MADURA.					
		ENGINEERING ESTABLISHMENT.					
1	1	Executive Engineer, 1st Grade	950	950			
1	1	Assistant Engineer, 1st do.	450	450			
		UPPER SUBORDINATES.					
1	1	Sub-Engineer, 3rd Grade	250	250			
1	1	Supervisor, 1st do.	200	200			
4	4	Overseers, 2nd do.	80	320			
		PETTY ESTABLISHMENT.					
14	14	Lascars	6	84			
		OFFICE ESTABLISHMENT.					
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			
2	2	Clerks, 4th do. 3rd do.	20	40			
4	4	Do. 5th do. 1st do.	15	60			
1	1	Draftsman, 1st Class	62	62			
1	1	Do. 2nd do.	35	35			
2	2	Draftsmen, 3rd do.	20	40			
1	1	Messenger	7	7			
1	1	Do.	6	6			

CHARGES.

PART IV—continued.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN MADRAS PRESIDENCY FOR THE YEAR 1886-87—*continued.*

Number. 1885-86.	Number. 1886-87.	Particulars.	Rate of salary.	Budget Estimate for 1886-87. Per mensem.	Per annum.	Total.	Revised Estimate for 1885-86.
		SUB-DIVISIONAL OFFICE ESTABLISHMENT.	Rs.	Rs.	Rs.	Rs.	Rs.
3	3	Clerks, 4th Class, 3rd Grade	20	60			
3	3	Messengers	6	18			
		Total, Establishment ...	...	2,712	32,544		
		Travelling Allowance	...	...	2,256		
		Contingencies	...	...	1,200		
						36,000	
		No. II TANK DIVISION, CHINGLEPUT.					
		ENGINEERING ESTABLISHMENT.					
1	1	Executive Engineer, 4th Grade	600	600			
1	1	Assistant Engineer, 1st do.	450	450			
		UPPER SUBORDINATES.					
1	1	Sub-Engineer, 2nd Grade	300	300			
1	1	Do. 3rd do.	250	250			
1	1	Supervisor, 2nd do.	150	150			
3	3	Overseers, 2nd do.	80	240			
		PETTY ESTABLISHMENT.					
15	18	Lascars	6	108			
		OFFICE ESTABLISHMENT.					
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			
2	2	Clerks, 4th do. 3rd do.	20	40			
5	4	Do. 5th do. 1st do.	15	60			
1	1	Draftsman, 1st Class	50	50			
1	1	Do. 3rd do.	20	20			
1	1	Messenger	7	7			
1	1	Do.	6	6			
		SUB-DIVISIONAL OFFICE ESTABLISHMENT.					
2	2	Clerks, 4th Class, 3rd Grade	20	40			
3	3	Messengers	6	18			
		Total, Establishment ...	...	2,469	29,628		
		Travelling Allowance	...	...	2,172		
		Contingencies	...	...	1,200		
						33,000	
		No. III TANK DIVISION, KURNOOL.					
		ENGINEERING ESTABLISHMENT.					
1	1	Executive Engineer, 4th Grade	600	600			
1	1	Assistant Engineer, 1st do.	450	450			
		UPPER SUBORDINATES.					
1	1	Sub-Engineer, 3rd Grade	250	250			
1	1	Supervisor, 2nd do.	150	150			
4	4	Overseers, 2nd do.	80	320			
		PETTY ESTABLISHMENT.					
14	14	Lascars	6	84			

342/31

CHARGES.

PART IV—continued.

DETAIL OF THE BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87—*continued.*

Number. 1885-86.	Number. 1886-87.	Particulars.	Rate of salary.	Budget Estimate for 1886-87. Per mensem.	Per annum.	Total.	Revised Estimate for 1885-86.
		OFFICE ESTABLISHMENT.	Rs.	Rs.	Rs.	Rs.	Rs.
		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			
1	1	Clerks, 4th do. 3rd do.	20	40			
2	2	Do. 5th do. 1st do.	15	60			
4	4	Draftsman, 1st Class	50	50			
1	1	Do. 3rd do.	20	20			
1	1	Messenger	7	7			
1	1	Do.	6	6			
		SUB-DIVISIONAL OFFICE ESTABLISHMENT.					
3	3	Clerks, 4th Class, 3rd Grade	20	60			
3	3	Messengers	6	18			
		Total, Establishment ...	...	2,245	26,940		
		Travelling Allowance	...	...	2,860		
		Contingencies	...	...	1,200		
						31,000	
		No. IV DIVISION.					
		ENGINEERING ESTABLISHMENT.					
...	1	Executive Engineer, 4th Grade	600	600			
...	1	Assistant Engineer, 1st do.	450	450			
		UPPER SUBORDINATES.					
	1	Sub-Engineer, 2nd Grade	300	300			
...	1	Supervisor, 2nd do.	150	150			
...	4	Overseers, 2nd do.	80	320			
...		PETTY ESTABLISHMENT.					
		Lascars	6	84			
...	14	OFFICE ESTABLISHMENT.					
		Clerk, 3rd Class, 2nd Grade	60	60			
...	1	Do. 4th do. 1st do.	40	40			
...	1	Do. 4th do. 2nd do.	30	30			
...	1	Clerks, 4th do. 3rd do.	20	40			
...	2	Do. 5th do. 1st do.	15	60			
...	4	Draftsman, 1st Class	50	50			
...	1	Do. 3rd do.	20	20			
...	1	Messenger	7	7			
...	1	Do.	6	6			
		SUB-DIVISIONAL OFFICE ESTABLISHMENT.					
		Clerks, 4th Class, 3rd Grade	20	60			
...	3	Messengers	6	18			
...	3	Total, Establishment ...	...	2,295	27,540		
		Travelling Allowance	...	...	2,260		
		Contingencies	...	...	1,200		
						31,000	
		Total Cost of Establishment for investigating the requirements of tanks	...	...	...	1,60,400	1,23,408
		Total, Imperial ...	...	...	...	6,72,729	6,25,020

CHARGES.

PART IV—continued.

DETAIL OF BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87—*continued.*

Number. 1885-86.	Number. 1886-87.	Particulars.	Rate of Salary.	Budget Estimate for 1886-87. Per Mensem.	Per Annum.	Total.	Revised Estimate for 1885-86.
		PROVINCIAL.	Rs.	Rs.	Rs.	Rs.	Rs.
		Grant for works and repairs	...	...	...	2,98,647	4,23,153
		Deduct item on which no charge is admissible.					
		Grant for expenditure in the Project divisions ...	...	...	...	4,500	9,098
		Net Grant ...	...	...	...	2,94,147	4,14,055
		A. Share of the Public Works establishment charges at 23 per cent. on the net grant for works and repairs	...	...	...	67,654	95,233
		Estimate of Direct Revenue	...	...	...	53,750	53,000
		B. Share of the Public Works establishment charges at 10 per cent. on Direct Revenue.	...	...	...	5,375	5,300
		C. 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
		Total A. B. C ...	...	...	...	1,07,529	1,35,033
		SPECIAL ESTABLISHMENTS FOR INVESTIGATING PROJECTS.					
		Establishment for B. Project Division.					
1		Executive Engineer, 4th Grade		700	700		
1		Clerk, 4th Class, 2nd Grade		35	35		
1		Do. 5th do. 1st do.		17	17		
1		Draftsman, 1st Class		66	66		
1		Do. 2nd do.		47	47		
1		Do. 2nd do.		38	38		
1		Messenger		7	7		
1		Do.		6	6		
3		Lascars		6	18		
3		Surveyors		100	300		
		Total ...		...	1,234	14,808	
		Travelling allowance		...	...	772	
		Contingencies		...	...	420	
		Total for B. Project Division ...		...	...	...	16,000	16,240
		Establishment for C. Project Division.					
1		Executive Engineer		...	700		
2		Surveyors		100	200		
2		Draftsmen		...	103		
1		Clerk		...	18		
2		Messengers		...	12		
3		Lascars		...	18		
12		Do. for two Surveyors		7	84		
				...	1,135	13,620	
		Travelling allowance		...	...	1,880	
		Contingencies		...	...	500	
		Total for C. Project Division ...		...	...	...	16,000	14,332

CHARGES.

PART IV—continued.

DETAIL OF BUDGET ESTIMATE OF ESTABLISHMENT OF THE IRRIGATION BRANCH IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87—*continued.*

Number. 1885-86.	Number. 1886-87.	Particulars.	Rate of Salary.	Budget Estimate for 1886-87. Per Mensem.	Per Annum.	Total.	Revised Estimate for 1885-86.
		PROVINCIAL—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.
		SPECIAL ESTABLISHMENTS FOR INVESTIGATING PROJECTS—*cont.*					
		Establishment for the Lower Coleroon Irrigation Project Division.					
	1	Executive Engineer	...	700			
	4	Overseers	...	320			
	2	Clerks	...	50			
	3	Draughtsmen	...	160			
	2	Messengers	...	14			
	30	Lascars	...	180			
				1,424	17,088		
		Travelling allowance	...	...	2,912		
		Contingencies	...	...	1,000		
		Total for Lower Coleroon Irrigation Project Division ...	...	...	...	21,000	22,110
		Total Provincial ...	...	...	...	1,60,529	1,87,715
		Total Establishment Charges ...	...	...	...	8,33,258	8,12,735

CHARGES.

PART VII.

ABSTRACT OF THE PROBABLE INCREASE IN THE SUSPENSE ACCOUNTS OF IRRIGATION AND NAVIGATION WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1886-87.

	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.
	Rs.	Rs.
44. IRRIGATION AND NAVIGATION.		
ORDINARY IRRIGATION AND NAVIGATION WORKS.		
Works for which neither Capital nor Revenue Accounts are kept.		
Stock—Probable expenditure in England	19,499	...
Deduct probable adjustment in the Indian Accounts	19,499	...
Net ...	...	...

847/33

APPENDIX A.

ACTUAL AND ESTIMATED CAPITAL ACCOUNT OF IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY TO END OF THE YEAR 1886-87.

	Direct Charges.	Indirect Charges.				Grand Total.
		Capitalization of Abatement of Land Revenue.	Exchange on Payments in England.	Leave and Pension Allowances.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Imperial.						
Chembrambakam Tank.						
Actual outlay to end of 1884-85.	6,24,425	85,701	...	26,463	1,12,164	7,36,589
Probable outlay during 1885-86.	...	...	...	...	...	...
Proposed outlay during 1886-87.	...	...	...	...	...	...
Total ...	6,24,425	85,701	...	26,463	1,12,164	7,36,589
Palandorai Anicut System.						
Actual outlay to end of 1884-85.	3,60,307	20,263	...	13,572	33,835	3,94,142
Probable outlay during 1885-86.	25,000	5,490	...	540	6,030	31,030
Proposed outlay during 1886-87.	13,000	...	...	338	338	13,338
Total ...	3,98,307	25,753	...	14,450	40,203	4,38,510
Pálár Anicut System.						
Actual outlay to end of 1884-85.	16,00,742	16,217	...	72,973	89,190	16,89,932
Probable outlay during 1885-86.	50,000	...	...	1,288	1,288	51,288
Proposed outlay during 1886-87.	50,000	...	...	1,288	1,288	51,288
Total ...	17,00,742	16,217	...	75,549	91,766	17,92,508
Total Imperial ...	27,23,474	1,27,671	...	1,16,462	2,44,133	29,67,607
Provincial.						
Buckingham Canal.						
Actual outlay to end of 1884-85.	54,69,471	2,20,158	...	1,49,697	3,69,855	58,39,326
Probable outlay during 1885-86.	1,97,290	...	...	8,790	8,790	2,06,080
Proposed outlay during 1886-87.	2,24,000	...	...	9,660	9,660	2,33,660
Total ...	58,90,761	2,20,158	...	1,68,147	3,88,305	62,79,066
Madras Water-supply and Irrigation Extension Project.						
Actual outlay to end of 1884-85.	15,15,827	2,08,056	...	30,098	2,38,154	17,53,981
Probable outlay during 1885-86.	12,085	...	...	279	279	12,364
Proposed outlay during 1886-87.	18,000	...	...	471	471	18,471
Total ...	15,45,912	2,08,056	...	30,848	2,38,904	17,84,816
Total Provincial Works ...	74,36,673	4,28,214	...	1,98,995	6,27,209	80,63,882

APPENDIX B.

ACTUAL AND ESTIMATED REVENUE ACCOUNT OF IRRIGATION AND NAVIGATION WORKS NOT CLASSED AS PRODUCTIVE IN THE MADRAS PRESIDENCY TO END OF 1886-87.

	Probable Receipts, 1886-87.			Probable Expenses during 1886-87 (Direct and Indirect).	Balance, Surplus or Deficit, 1886-87.	Probable Net Surplus or Deficit for 1885-86.	Actual Net Surplus or Deficit to end of 1884-85.	Probable Net Surplus or Deficit to end of 1886-87.
	Direct Receipts.	Irrigation Revenue and share of enhanced Land Revenue.	Total.					
IMPERIAL.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Chembrambakam Tank ...	20	37,620	37,640	2,104	35,536	20,997	3,22,356	3,78,889
Pelandorai Anicut System ...	...	11,495	11,495	15,341	—3,846	—22,547	—2,24,470	—2,50,863
Pálár Anicut System ...	980	1,25,400	1,26,380	40,025	86,355	66,752	7,50,207	9,04,691
Total ...	1,000	1,74,515	1,75,515	57,470	1,18,045	65,202	8,48,093	10,31,340
PROVINCIAL.								
Buckingham Canal	48,000	...	48,000	99,043	—51,043	—92,266	3,51,785	—2,08,476
Madras Water-supply and Irrigation Extension Project	5,500	10,260	15,760	49,829	—34,069	—1,89,318	— 28,176	—2,51,563
Total ...	53,500	10,260	63,760	1,48,872	—85,112	—2,81,584	3,23,609	— 43,087

847
37

APPENDIX D.

ESTIMATED ACCOUNT OF RECEIPTS AND CHARGES OF THE IRRIGATION BRANCH, PUBLIC WORKS DEPARTMENT, IN THE MADRAS PRESIDENCY FOR THE YEARS 1885-86 AND 1886-87.

RECEIPTS.

ACCOUNTS.	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.
	Rs.	Rs.
To Balance at commencement of year	...	...
To Transfers of the Public Works Department—		
Buildings and Roads Branch	59,09,301	58,64,521
To Provincial Fund Revenue—		
XXXI—Direct Receipts from Irrigation and Navigation Works not classed as Productive	53,750	53,000
To Imperial Revenue—		
XXVII—Direct Receipts from Productive Public Works	2,16,500	2,25,250
XXXI—Direct Receipts from Irrigation and Navigation Works not classed as Productive	20,000	20,000
Grand Total ...	61,99,551	61,62,771

CHARGES.

ACCOUNTS.	Budget Estimate, 1886-87.	Revised Estimate, 1885-86.
	Rs.	Rs.
By Transfers of the Public Works Department—		
Buildings and Roads Branch	2,90,250	2,98,250
By Provincial Fund Expenditure—		
44. Irrigation and Navigation Works not classed as Productive	4,65,500	6,30,651
By Imperial Fund Expenditure—		
34. Famine Relief and Insurance—Protective Works	4,30,000	4,00,000
38. Productive Public Works (Revenue Account) working and maintenance.	10,00,000	10,45,510
44. Irrigation and Navigation Works not classed as Productive	25,08,801	23,95,000
51. Capital Expenditure not charged against Revenue	15,05,000	13,93,360
By Balance at end of year	...	...
Grand Total ...	61,99,551	61,62,771

Madras,
December 1885.

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

No 6

To E.P. No 146. I. 1 dt
13 Feb/86 only three
Sapphuys have replied
their demands for
funds in addition to
those provided in the
Budget are shown
below:—

II Circle	Rs	7,000
V do		120,000
VI do		24500
Total.		151,500

The E.E. VI
Rs 6,711 from
Works, & the
total 25000 Rs allotted for
repairs to tank bunds
works in Chingleput
dist. could be better
spent on ordinary repairs.
Reminders have been
sent to the E.Es. As
soon as their replies
are recd. a general
statement will be
compiled & submitted
for orders.

VDS
25/3

My dear Sir

Letter No. 5173 W

36

Please send us

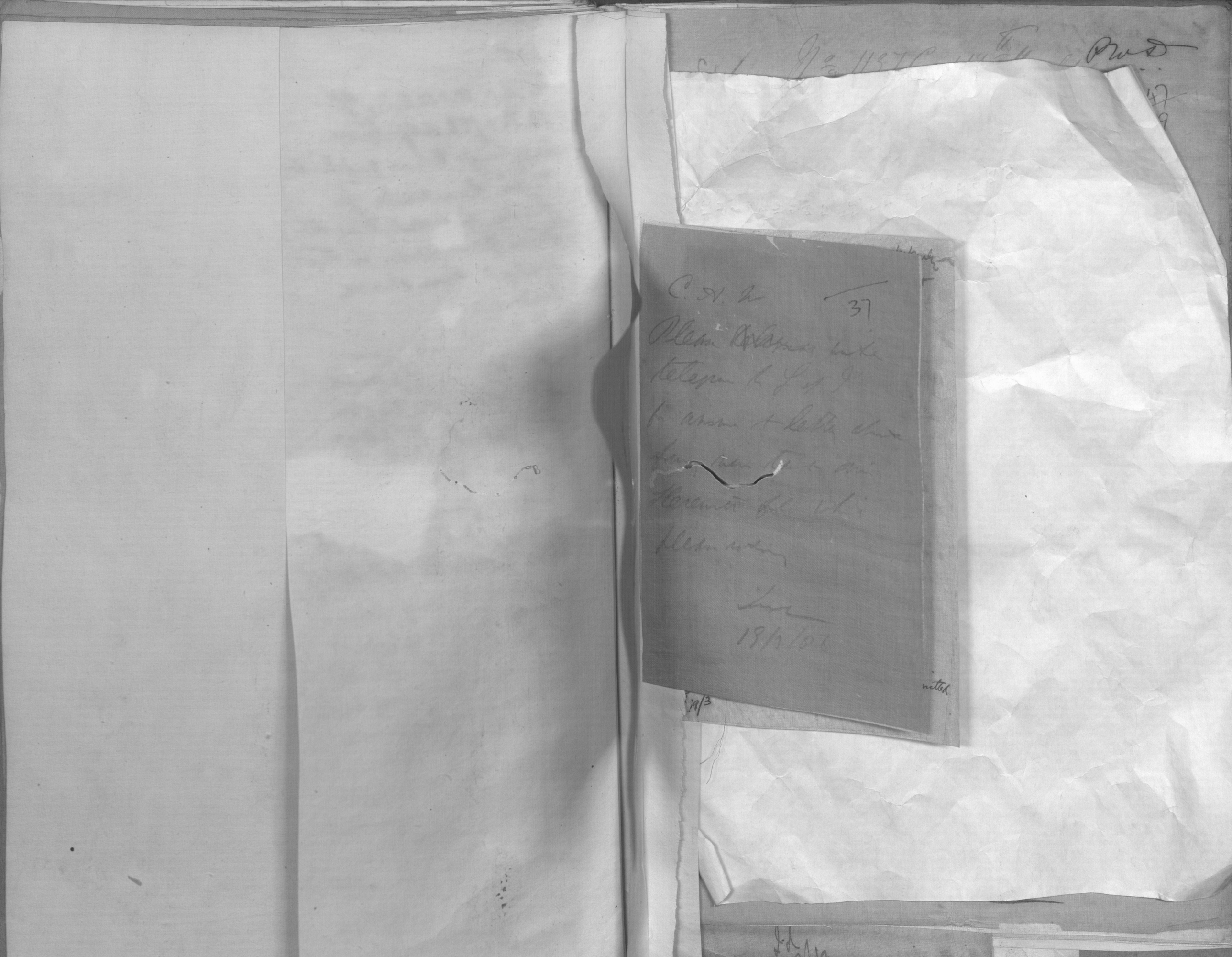
Cert

Letter N° 5734 with Proof N°

572 W 3 26/7/88 submitted

SM 15/3/89

matter



+ No letter written but mentioned in draft: Dec 11 which is put with 38

Re Call
Send of the letter
written to Sir J
Carmichael and
inform the A
W W Tank Co
Ltd

No 538 W 2.3.86 Submitted
Ltr 19/3

C/ No 113 Cal 17 Dispatched Bud 17 March/86

847
39

Telegram

To Works
Calcutta

Buy 5000 sleepers
second instant.

Please wire
quotation to former
South Bank Division

Tel: dispd: 19/3/86.

Sent
18/3/86

18.3.86

Ch

G.O. 538 Way 2-3-86
" 513 Way 25-2-86
" 512 Way 25-2-86

FC

Class 25 | INDIAN TELEGRAPH. | Local No. 07754

To (Station) Triplicane Madras | From (Station) Calcutta

Words	Day.	Hours.	Minute.	Official Instruction.
24/2	24	11	21	desk

947/40

To (Person) Madras Works.

From (Person) Works.

Your telegram 19 no objection to formation of fourth division if your financial position admits of it-

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

Date

MADRAS 24-3-86

Telegraph Master.

E Ellis C P G I S F—No. 636—25,00,000—12-2-8

do not propose to take any
action to in the allotment for

Mov W 25-3-86

Pol. C. 2339
2383/1

No. C-382W. 2.3.86.
512-12W. 25:2..
4-29- 2-1-86.
1137C. 19.3.86.

SECRETARY TO GOVT. OF INDIA
25 MAR
DEPARTMENT

No. 1230C 25th March/86
Chepauk
Referred to E.I. for remarks.
25.3.86

1886.

P. W. DEPARTMENT. 847/41

Current No. 2339

From The Govt of India

Enclos.— ~ C Q.O 146 I. 13th Feb 186. Also

No. ~

Dated 24/3/86

Received 25-3-86

Subject.

Telegram stating that there is no objection to the formation of the Fourth Tank Division if the financial considerations admit.

Disposal.

No. 1230C Dated 25th March/86

Referred to E I for favor of remarks

J W J S I

N

Ll or W 25-3-86

J A M

847/42

26 MAR
DEPARTMENT

...the expression "if the financial ...circumstances admit of it". Apparently ...the letter Q of 7 March forwarded ...Q.O 146 I. 13th Feb 186. Also ...Q of 7 March regarding the necessity for ...reduction of the grant under 46. ...Irrigation & Navigation, and says that ...provision should be made from the ...Fund placed at our disposal for the ...maintenance & repairs of Existing ...Irrigation works, the allotments for ...works both major & minor, as ...well as the proposed outlay on the ...investigation of new projects being ...framed. Should we think that the ...reduction from the maintenance & re-...pairs can be made available. ...Then Govt prepared to reduce the ...grants for major & minor new works ...under the pressure, but "that Committee ...of work of the Tank division the ...investigation of new projects" and ...'do not propose to make any ...reduction in the allotment for

No 6.382N. 2.3.86.
512-18N. 25:2-.
4-29- 2-1-86.
1137C. 19.3.86.

Reply to 1230C 25-3-86

847/42

26 MAR

Z W.

The expression "if Imp finances position admits of it". apparently refers to the Q of J letter printed with G.O 146 I. 13th Feb 186. where the Q of J reports the necessity for the reduction of the grant under 44. Irrigation & Navigation, and says that provision should be made from the Land Revenue at our disposal for the maintenance & repair of existing irrigation works, the alignments for new works both major & minor, as well as the preparation & the investigation of new projects being declared objects on account of which the needful sum for maintenance &c. Rs. 60 lacs can be made available.

I am quite prepared to endorse the grounds for major & minor new works shown in the margin, as I think Lord Dufferin when he used the Imp. division also 'investigation of new projects' and I do not propose to make any reduction in the allotment for

Establishment. Tank maintenance scheme. The second statement provides for the formation of a 4th Tanks Division

Rec'd 2383

Rec'd 26/3/86. No 1

Genl Estabt

No. 847 W

PUBLIC WORKS DEPARTMENT.

847/43

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 29th March 86

READ the following

Telegram from the Govt. of India P. W. Department } H. E. No — dy 24th March 1886

Office Note from the Chief Engineer for Irrigation } H. E. No — dy 26th March 1886.

Communicated to the Suptg. Engineer, Tank Maintenance Scheme, with adverence to G. O. No 537 W, dated 2nd March 1886.

2. The formation of a fourth Tank Division may be proceeded with.

Despd 2/4/86

Suptg. Engr. S. M. S. ✓

Ch. Engr. for I. ✓

Secy P. W. D. ✓

29/3/86

29-3-86

840
44

Grant Soc

2383

Govt. of 1886 Madras.

PUBLIC WORKS.

Dated 21st Nov 1886

Rcd. Encl.

G.O., 29th March 1886, No. 847 W.

Forwards Sanction of the Govt to the formation of a Cannon to the S.E. Tank Road.

60/5

Jd 30/3