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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 2965-66	~~No.~~ Press ✓ Mis.
132-34	
Dated 7. 12	1870.

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112

*Proceedings of the Madras Government, Public Works Department,
7th December 1870.*

No. 132. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 16th November 1870, No. 92 :—

I HAVE the honour to submit the documents as per margin, being Budget Estimates of expenditure from State funds and from the Guaranteed and Loan Capital during 1871-72.

Part VI.
Appendix C., and,
Statements, Nos. 1 to 4, received from Agent.

2. The estimated outlay on Government Establishments for the whole year is—

	RS.
For the Consulting Engineer's Office	35,744
Compensation for land expected to be taken up for distribution channels estimated at	20,000
Total State outlay ...	55,744

3. The estimated outlay from Guaranteed and Loan Capital from 1st April to 30th June, the date on which, agreeably to the contract, the whole of the works should be completed, is as follows :—

	RS.
Agent and Engineering Establishments	50,000
Work on Main Canal	2,72,394
Do. on Distribution	66,086
Telegraph	5,856
Total...	3,94,336

These figures are supplied by the Agent and the Chief Engineer, and they must be taken to mean the estimated value of work that will remain to be done on 1st April 1871, and the amount of the balances of funds which the Company's officers calculate they will have in their hands on that date, for, as the balance of Guaranteed Capital undrawn on 1st September 1870 was only £14,816, and the balance of Loan Capital undrawn on the same date was £32,000, it is improbable that any portion of either capital will remain *undrawn* on 1st April 1871.

4. The estimated amount that will be available for Agent's and Engineering Establishments, it will be observed, is only Rupees 50,000, which would probably suffice for three months, but will not, I believe, be sufficient to pay salaries and other charges for the four months, from March to June inclusive, as well as passage money to England for all the employes of the Company who may then be dispensed with. Much less is there any margin for paying salaries after the 1st July should the Company continue their operations, and the estimates have been already so long delayed in waiting for the necessary information from the Agent I cannot longer defer their submission to Government in calling for further explanation.

5. With regard to revenue the gross receipts are estimated at	RS. 10,14,882
And the expenditure at	1,15,334

Leaving net receipts at... 8,99,548

The gross receipts shown are calculated on the sum total of the areas for which distribution projects, under each section, have been, or are being prepared, namely, 2,53,720½ acres. The Chief Engineer in one place has estimated the area to be irrigated at 8,66,569 acres, and in another at 2,53,720½, but the former figures are

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clearly an error, and I have therefore entered the smaller quantity in my Budget but I have no expectation that anything at all approaching even the smaller quantity will be irrigated, or that there will be any net receipts; indeed, I believe the working expenses will far exceed the revenue receipts, and that without taking into account the heavy item of Rupees 75,000 for repairing the breaches of August 1870 which the Company's officers have included in this account. The working expenses exclusive of repairs to breaches, are estimated at Rupees 40,334, which is on Rupees 20,810 in excess of the annual cost of the maintenance or conservancy

No. 1,391, 4th June 1870. establishment sanctioned for the upper 72 miles in Government Order as

margin, and which would be quite insufficient to provide a like establishment for the remaining length of the canal from Lockinsula to Cuddapah, 116 miles, as well as for a General Agency and Chief Engineer's establishment, and for ordinary repairs on a canal 188 miles long.

6. With regard to the item of Rupees 75,000, for repairing the breaches of August 1870, I am doubtful if such work is fairly chargeable to the Revenue Account at all, and if it is, it belongs to the current and not to the next official year, for the breaches are now being repaired, and it will be inexcusable if the repairs are not completed before the 31st March next.

Detail of Estimate of State Expenditure on account of the operations of the Madras Irrigation and Canal Company for the year 1871-72.

ABSTRACT.		RS.
I.—Establishment...	...	35,800
II.—Purchase of Land	...	20,000
Total...		55,800

I.—Controlling Establishment.

NUMBER.		Particulars.	Salary of office.	ESTIMATE of 1871-72.			Budget Estimate of 1870-71. Charges per annum.	Regular Estimate of 1870-71.
1870-71.	1871-72.			Per mensem.	Per annum.	Total.		
		<i>Consulting Engineer for the Madras Irrigation and Canal Company.</i>	RS.	RS.	RS.	RS.	RS.	RS.
1	1	Consulting Engineer graded as Chief Engineer, Class II. ...	2,000	2,000	24,000	24,720	21,000	23,540
1	1	Presidency house-rent...	60	60	720			
1	1	Manager ...	225	225	2,700			
1	1	Accountant ...	42	42	504			
1	1	Head Clerk ...	50	50	600			
1	1	Draughtsman and Estimator ...	60	60	720			
1	1	Do. do. ...	40	40	480			
1	1	Record-keeper ...	50	50	600			
1	1	Moochee ...	10½	10½	126			
1	1	Peon ...	8	8	96			
1	1	Do. ...	7	14	168	7,254	7,254	7,222
1	1	Do. ...	6	6	72			
1	1	Sweeper ...	3	3	36			
		<i>For the Government Examiner.</i>						
1	1	Accountant ...	90	90	1,080			
1	1	Peon ...	6	6	72			
		Travelling allowance and batta for Office Establishment...				31,974	28,254	30,763
		Office Expenses and Contingencies ...				2,570	2,570	690
		Do. ...				1,200	1,200	335
		Total of the Consulting Engineer's Department ...				35,744	32,024	31,777

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Purchase of Land.

Number of Item.	Particulars.	Amount of Estimate.	Computed payments to 31st March 1871.	Estimate for 1870-71.	Regular Estimate of 1870-71.	Estimate for 1871-72.
			RS.	RS.	RS.	RS.
	KURNOOL DISTRICT.					
	Main Supply.—Nil.					
	Distribution.					
	Area					
	Canal, 1st Section ...		Not estimated for, the Land Registers and Bills are sanctioned by Govt from time to time prior to the transfer of the land.	69,447	10,000	6,284
	Do. 2nd do. ...					
	Do. 3rd do. ...					
	Do. 4th do. ...	41				
	Do. 5th do. ...	80				
	Do. 6th do. ...	51				
	Do. 7th do. ...	1,721				
	Do. 8th do. ...	121				
	Do. Sundry purposes...	15				
	Total for Kurnool...	2,029		69,447	10,000	6,284
						10,000
	CUDDAPAH DISTRICT.					
	Main Supply.—Nil.					
	Distribution.					
	Canal, 9th Section ...	324	Do.	20,414	10,000	3,071
	Do. 10th do. ...	87				
	Sundry purposes ...	24				
	Total for Cuddapah...	435		20,414	10,000	3,071
						10,000
	Grand Total for Kurnool and Cuddapah ...			89,861	20,000	9,355
						20,000

(Signed) J. CARPENDALE, Colonel, R.E.,
Consq. Engr. for I. & C. Company.

APPENDIX C.

Estimated Expenditure from Guaranteed and Loan Capital of the Madras Irrigation and Canal Company for 1871-72.

Items.	Budget Estimate for 1871-72, i.e., from 1st April to 30th June 1871.	Budget Estimate for 1870-71.	Regular Estimate for 1870-71.
	RS.	RS.	RS.
Main Canal...	2,72,394	11,12,882	13,28,723
Distribution Channels	66,036		1,67,267
Buildings	50,000		94
Establishments	5,856		2,97,477
Electric Telegraph			20,356
Total outlay...	3,94,336	11,12,882	17,33,923
Estimated receipts from sale of Stores, etc., to be credited to Capital	5,000		14,889
Total receipts...	5,000		14,889
Net outlay...	3,89,336	11,12,882	17,19,033

Revenue Account.

	GROSS EARNINGS.			WORKING EXPENSES.			NET REVENUE.			PER-CENTAGE OF WORKING EXPENSES.		
	1871-72.	1870-71.		1871-72.	1870-71.		1871-72.	1870-71.		1871-72.	1870-71.	
	RS.	Budget Estimate.	Regular Estimate.	RS.	Budget Estimate.	Regular Estimate.	RS.	Budget Estimate.	Regular Estimate.	RS.	Budget Estimate.	Regular Estimate.
Main Canal from Soonkasa to the Pennair	10,14,882	99,000	11,358	40,334	20,334	12,840	8,99,548	78,666	982	11-36	20-54	...
Breaches for 1870-71				75,000								...

(Signed) J. CARPENDALE, Colonel, R.E.,
Consq. Engr. for I. & C. Company.

No. I.
MADRAS IRRIGATION AND CANAL COMPANY.
Budget Estimate of the Expenditure required on the Construction Account in 1871-72.

Names of Works.	Amount of sanctioned estimates.	Actual expenditure from 1st April to 31st July 1870.	Anticipated expenditure from 1st August 1870 to 31st March 1871.	Total of columns 3 and 4.	Probable expenditure for 1871-72.	Remarks.
Main Supply.						
Aricut and Head Works at Kurnool ...	3,03,080 0 0	1,158 9 0	9,488 14 8	10,647 13 8	3,536 0 0	Abandoned.
Do. do. at Sontasala ...	4,82,223 0 0	85 10 1	6,320 2 7	92,983 14 9	2,332 0 0	
Do. do. at Somaswaram ...	1,71,727 1 7	86,783 12 2	10 0 11	10 0 11	.....	
Do. do. at Adamapully ...	3,44,440 0 0	10 0 11	.....	.....	.....	
Aqueduct across the river Hindry ...	2,76,250 0 0	.....	.....	.....	.....	Abandoned.
Canal for one mile from the head-slucice of the Kurnool Aricut ...	65,000 0 0	10,328 2 5	.....	.....	.....	* Includes the amount of estimate for repairs of head sluices, apron, and side wall for Rupees 2,900, submitted on the 14th May 1870.
South Main Canal, 1st Section, 17½ miles	10,83,846 12 10	.....	.....	.....	.....	† Includes the amount of supplemental estimate, Rupees 1,33,700, submitted on the 13th April 1870.
Do. 2nd do. 18th to 32nd miles	19,63,370 0 0	11,946 7 4	6,009 8 9	18,555 11 1	2,478 0 0	
Do. 3rd do. 33rd to 43rd do.	9,75,790 0 0	6,763 6 0	52,198 5 10	58,961 11 10	19,571 0 0	
Do. 4th do. 44th to 60th do.	10,55,521 0 0	826 6 10	56,774 18 5	57,601 4 3	21,290 0 0	
Do. 5th do. 61st to 72nd do.	8,80,738 2 9	9,009 7 11	10,574 0 11	20,183 8 10	3,965 0 0	
Do. 6th do. 73rd to 91st do.	9,43,427 5 4	61,660 9 5	1,06,843 15 10	1,68,504 9 3	40,068 0 0	
Do. 7th do. 92nd to 114th do.	7,48,483 5 4	60,447 10 3	77,944 2 6	1,38,391 12 9	29,230 0 0	
Do. 8th do. 115th to 143rd do.	1,80,111 0 0	1,07,200 1 3	94,144 10 5	2,01,404 11 8	35,3 4 0 0	‡ Includes the amount of supplemental estimate of Rupees 50,000 for Locks Nos. 1 to 5 for 8th Section. Valoor Sub-Division is under preparation.
Do. 9th do. 144th to 178th do.	9,50,177 0 0	99,328 15 5	2,25,329 10 7	3,24,158 10 0	84,866 0 0	
Do. 10th do. 179th to 186th do.	2,57,147 0 0	47,151 3 2	79,820 4 7	1,26,971 7 9	23,933 0 0	
Total ...	113,37,330 11 10	5,02,340 6 2	7,26,388 5 1	12,28,728 11 3	2,72,894 0 0	
Distribution.						
Branch channel and sluice of 1st Section	7,092 15 5	10 5 5	1,479 15 11	1,490 5 4	555 0 0	
Distribution works of the 2nd do.	6,000 0 0	28 8 3	1,002 12 1	1,031 4 3	376 0 0	
Do. 3rd do.	11,150 0 0	4,368 10 11	745 14 2	5,114 9 1	290 0 0	
Do. 4th do.	51,463 14 0	4,574 10 2	21,093 6 2	25,668 0 4	7,910 0 0	
Constructing a band across the canal in 45th mile, 4th Section	76 0 0	.....	.....	.....	.....	
Distribution works of the 5th Section	20,550 0 0	73 6 10	14,894 1 2	14,897 8 0	5,560 0 0	
Do. 6th do.	71,400 0 0	1,927 0 2	48,455 8 2	50,382 8 4	18,170 0 0	§ Estimate submitted for sanction on the 13th September 1870.
Do. 7th do.	5 44,660 0 0	.....	32,430 0 0	32,430 0 0	12,180 0 0	¶ Estimate submitted for sanction on the 11th October 1870.
Do. 8th do.	17,600 0 0	.....	12,800 0 0	12,800 0 0	4,800 0 0	• Approximately estimated.
Do. 9th do.	60,000 0 0	56 6 11	43,346 9 5	43,402 7 4	16,355 0 0	
Do. at Sontasala	925 2 6	.....	.....	.....	.....	
Kurnool Town Water Supply ...	1,699 0 7	.....	.....	.....	.....	
Total ...	2,92,527 0 6	11,089 0 7	1,76,227 10 1	1,87,266 10 8	66,086 0 0	

Buildings.

Central Hospital with out-houses and compound wall at Kurnool	5,050 0 0	93 7 0	.....	93 7 0	.....
Repairs to do.	68 0 0	.....	.....	.....	.....
Office, Store, and Workshop at Sontasala	5,947 0 0	.....	.....	.....	.....
Powder Magazine, Store, and Station roads at Bowasary	4,859 5 9	.....	.....	.....	.....
Office, Store-room, and Artificers' shed at do.	7,297 8 5	.....	.....	.....	.....
Repairing the above building at do.	648 0 0	.....	.....	.....	.....
Improvement of the road approaching to the above building and repairing culverts at do.	578 0 0	.....	.....	.....	.....
Converting the unfinished building intended for a Gun Powder Manufactory into an Hospital at do.	427 0 0	.....	.....	.....	.....
Office and Store building at Valapanoor in the Bowenassery	1,970 0 0	.....	.....	.....	.....
Do. at Jupand in the Nagatoor	4,782 1 1	.....	.....	.....	.....
Do. at Puggydial in the do.	3,977 7 7	.....	.....	.....	.....
Do. at Chinnagootab in the Koondanur.	5,288 0 0	1 0 0	.....	1 0 0	.....
Office and temporary Store-shed at Ayaloor in do.	642 0 0	.....	.....	.....	.....
Quarters for Sub-Assistant Engineers and Assistant Surveyors at do.	1,636 0 0	.....	.....	.....	.....
Repairs to Aricut Office at Zorapoor	827 0 0	.....	.....	.....	.....
Office, Store, and Workshop at Kurnool	80,612 0 0	.....	.....	.....	.....
Iron and Brass Foundry at Kurnool, etc.	15,327 15 4	.....	.....	.....	.....
Engineer's Bungalow at Dhoor	4,765 0 0	.....	.....	.....	.....
Total ...	98,297 6 2	94 7 0	.....	94 7 0	.....

Telegraph lines from Sontasala to Cuddapah...

** 62,540 0 0	4,787 10 9	15,018 12 6	20,356 7 8	5,856 0 0
Grand Total ...	5,18,211 8 6	9,18,234 11 8	14,36,446 4 2	3,44,336 0 0

|| Includes the amount of supplemental estimate, Rupees 659.1-1, submitted for sanction on the 9th May 1870.

** Includes the amount of supplemental estimate, Rupees 13,100, submitted for sanction on the 22nd August 1870.

MADRAS,
14th November 1870.

(Signed) C. A. BADHAM,
Chief Accountant.

(Signed) F. H. HENSLOWE,
Agent and Manager.

*Proceedings of the Madras Government, Public Works Department,
7th December 1870.*

No. II.
MADRAS IRRIGATION AND CANAL COMPANY.
Budget Estimate of the expenditure on the Revenue Account in 1871-72.

Items.	Budget for 1870-71.	Actual expenditure from 1st April to 30th July 1870.	Anticipated expenditure from August 1870 to 31st March 1871.	Total of Columns 3 and 4.	Probable expenditure for 1871-72.
	RS.	RS. A. P.	RS.	RS. A. P.	RS.
Proportion on share of charges for General Management ...	4,000	.....	.....	.....	24,000
<i>Main Supply.</i>					
Repairs of Soonkasala Anicut	500	999 6 0	.....	999 6 0	500
Do. of Main Canal, 1st Section...	1,470	1,497 0 0	.....	1,497 0 0	1,470
Do. of do. 2nd do...	1,260	343 7 2	10,000	10,343 7 2	1,260
Do. of do. 3rd do...	1,092				1,092
Do. of do. 4th do...	1,428				1,428
Do. of do. 5th do...	1,008				1,008
Do. of do. 6th do...	1,596				1,596
Do. of do. 7th do...	1,932	.....	.....	.....	1,932
Do. of do. 8th do...	2,436	.....	.....	.....	2,436
Do. of do. 9th do...	2,940	.....	.....	.....	2,940
Do. of do. 10th do...	672	.....	.....	.....	672
Total...	16,334	2,839 13 2	10,000	12,839 13 2	16,334
<i>Distribution.—Nil.</i>					
<i>Building.—Nil.</i>					
<i>Storage.—Nil.</i>					
Breaches for 1870-71...	.....	.....	.....	.....	75,000
Grand Total...	20,334	2,839 13 2	10,000	12,839 13 2	1,15,334

MADRAS, 14th November 1870. (Signed) C. A. BADHAM, Chief Accountant. (Signed) F. H. HENSLOWE, Agent and Manager.

No. III.
MADRAS IRRIGATION AND CANAL COMPANY.
Budget Estimate of area of land required in 1871-72.

Names of works for which land is required.	Area of land under Class			
	A.	B.	C.	D.
For Distribution Channels, 1st Section, Main Canal...	.....	.....	.....	.....
Do. do. 2nd do.	.....	.....	.....	.....
Do. do. 3rd do.	.....	.....	.....	.....
Do. do. 4th do. {1st part	41	.....	.....	.....
Do. do. 4th do. {2nd part				
Do. do. 5th do. {North Bowanassy.	35	.....	.....	.....
Do. do. 5th do. {South do.	45	.....	.....	.....
Do. do. 6th do.	51	.....	.....	.....
Do. do. 7th do.	1,721	.....	.....	.....
Do. do. 8th do.	121	.....	.....	.....
Do. do. 9th do.	324	.....	.....	.....
Do. do. 10th do.	87	.....	.....	.....
For side cutting quarries, or temporary huts, 1st to 3rd Section...	.....	15	.....	.....
6th do.	.....	.....	.....	.....
7th do.	.....	.....	.....	.....
8th do.	.....	.....	.....	.....
9th do.	.....	.....	.....	.....
10th do.	.....	.....	.....	.....
For calingulah channels enlarged	24	.....	.....	.....

MADRAS, 3rd November 1870. (Signed) C. A. BADHAM, Chief Accountant. (Signed) F. H. HENSLOWE, Agent and Manager.

*Proceedings of the Madras Government, Public Works Department,
7th December 1870.*

No. IV.
MADRAS IRRIGATION AND CANAL COMPANY.
Budget Estimate of Irrigation for the year 1871-72.

Position.	Areas com- manded.	Areas sup- plied in 1870-71.	Areas to be sup- plied in 1871-72.	Remarks.
1st Section... ..	1,386		1,386	I have the Collector's Estimate (Deputy Collector of Nundial, No. 200, of 7th instant) of the Government's demand for water for irrigation in the first 100 miles of Canal 4,66,599 ACRES. My estimate (based on this proportion) for the remaining 90 miles... .. 4,00,000
2nd do.	1,956	873	1,956	
3rd do.	9,837		9,837	
4th do. ... {1st Sub-division..	14,807	12	14,807	
4th do. ... {2nd do.	10,511		10,511	
5th do. ... {North Bowanassy.	9,516½	.....	9,516½	
5th do. ... {South do.	12,000	.....	12,000	
6th do.	27,970	.....	27,970	
7th do.	29,500	.....	29,500	
8th do.	34,237	.....	34,237	
9th do.	1,00,000		1,00,000	Total... 8,66,569 The Collector's estimate for Sirvel, etc., is not yet received. I imagine his estimate includes certain demands, and is within the mark.
10th do.	2,000	.....	2,000	
			2,53,720½	Estimated actual irrigation.

MADRAS, 3rd November 1870. (Signed) C. A. BADHAM, Chief Accountant. (Signed) F. H. HENSLOWE, Agent and Manager.

No. 133. ORDER THEREON, 7th December 1870, No. 2,965.

IRRIGATION, No. 13.

WITH this letter the Consulting Engineer submits the Budget Estimates of the Madras Irrigation and Canal Company for the year 1871-72.

2. *State Expenditure.*—The expenditure under this head during the ensuing official year is estimated at Rupees 55,744 against Rupees 53,800 for 1870-71. This increase is due to the salary of the Consulting Engineer, who has been graded as a Chief Engineer of the second class, having been provided for at the consolidated rate authorized by the Notification of the Government of India re-published in the *Fort St. George Gazette* of the 25th October 1870. The estimate under this head is accordingly passed for an even sum of Rupees 55,800.

3. *Advances on Construction Account.*—The Budget Estimate under this head amounts to Rupees 3,89,336 which represents the estimated outlay from the 1st April to 30th June 1871, on which latter date the Company's contract will expire. As the balance of Guaranteed and Loan Capital undrawn on the 1st September 1870

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7th December 1870.*

only aggregated £16,816, it appears questionable to His Excellency the Governor in Council whether the portion of this sum that may remain undrawn or unspent on the 1st of April next will suffice to meet the requirements of the Company as estimated up to the 1st July 1871. Having, however, no means of ascertaining this except by comparing the probable cost of the work still requiring to be done with the balance of money at the disposal of the Company, His Excellency the Governor in Council accepts the estimate on the assurance of the Consulting Engineer's late reports that the unexpended balances of Capital and Loan Funds will suffice to complete the canal.

4. *Revenue Account.*—This account is as follows as compared with the Budget and Regular Estimate of 1870-71:—

	Budget Estimate of 1870-71	Regular Estimate of 1870-71	Budget Estimate of 1871-72
Gross Earnings	RS. 99,000	RS. 11,858	RS. 10,14,882
Working Expenses	20,334	12,840	40,334
	78,666	982 Loss.	9,74,548

5. Colonel Carpendale explains that the receipts are calculated on the total area capable of being irrigated on the completion of the distribution works now in progress. This area he gives at 2,53,720½ acres, but expresses the opinion that, as no such extent of land is at all likely to be irrigated, the returns to be received will fall far short of the sum calculated upon, and he states his belief that they will not even cover working expenses. The Government fear that there is but too much reason to look for this result, but having no alternative they will allow the estimate to stand.

6. Seeing that the repair of the breaches which occurred in August 1870 are in progress, His Excellency in Council agrees with Colonel Carpendale that there should be no difficulty in completing them during the current year.

Ordered that the following letter be sent:—

(Here enter No. 2,966, dated 7th December 1870.)

(True Extract.)

Colonel, R. E.,

Secretary to Government.

To the Consulting Engineer for the Madras Irrigation and Canal Company.

.. Agent and Manager for

do.

do.

.. Controller of Public Works Accounts.

.. Accountant-General.

.. Revenue Department.

Exd. S. T. Augustin.

Gobt. of {1870} Madras.

PUBLIC WORKS.

To

THE CONSULTING ENGINEER FOR
THE MADRAS IRRIGATION AND
CANAL COMPANY.

&c., &c., &c.

Dated December 7th.

Recd.

Encl.

G. O., 7th December 1870, No. 2,965.

DECEMBER
Nos. 132-133

Budget Estimates.—Passing orders on the Budget Estimates of the Madras Irrigation and Canal Company for the year 1871-72.

PUBLIC WORKS DEPARTMENT.

FORT ST. GEORGE, 7th December 1870.

No. 134.

No. 2,966.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

IRRIGATION, No. 14.

SIR,—I am directed to transmit the Budget Estimates of the Madras Irrigation and Canal Company for the year 1871-72.

2. As the Company's contract will terminate on the 30th June 1871 the estimate exhibits the financial operations of the Company for three months, and the following is an abstract of that estimate:—

					R3.
<i>State outlay.</i>					
On Establishments	...	...	...	...	35,800
„ Land...	...	...	...	...	20,000
					<u>55,800</u>
<i>Construction Funds.</i>					
Main and Distribution Channels	...	...	...	...	3,38,480
Telegraph	...	...	...	...	5,856
Establishments	...	...	...	...	50,000
					<u>3,94,336</u>
<i>Revenue Account.</i>					
Gross Earnings	...	...	...	...	10,14,882
Less Working Expenses	...	...	...	...	40,334
					<u>9,74,548</u>

3. The gross net revenue receipts which are entered at Rupees 9,74,548, are calculated on the supposition that the whole area to which water will be capable of being distributed by the works now in progress and likely to be completed by the 1st July next will be irrigated and yield a return at the rate of Rupees 6 per acre. This is a mere delusion which cannot even command the serious belief of the officers of the Company and which ought not to be allowed to circulate without the plainest contradiction. In referring the Government of India to the opinions expressed by this Government in my letter of the 19th November 1869, No. 5,702, I am to say that there is no reason whatever to hope that any great extension of irrigation will take place under the canal except in a gradual manner, or till the people have learnt to place confidence in its stability and in the certainty and regularity of the supply of water it is designed to afford. His Excellency the Governor in Council believes that a considerable expenditure will be required after the Company's resources are exhausted, about the 1st July next, to place the

canal in an efficient and safe condition and to provide for its proper conservancy, while some years must elapse ere even an equilibrium can be obtained between the revenue of the work and the annual outlay on maintenance and other permanent charges.

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

Colonel, R. E.,
Secretary to Government.

Exd. S. T. Augustin.

Counseling Engineering Office
Irrigation & Canal Company
Madras, 16th Nov 70.

No 92
To Mr. Colonel, V. G. P. S. D. A.
C. E. S. D. C.
The Secretary to Government
Department of Pub. Works.

Part VI.
Appendix C &
Statements Nos 104
received from Agent.

I have the honor to submit the documents as per margin being Budget estimates of expenditure from State funds and from the Guaranteed and Loan Capital during 1871/72.

2. The estimated outlay on Government establishments for the whole year is:
For the Counseling Eng^g office - Rs. 35,744-0-0
Compensation for land expected
to be taken up for distribution
channels estimated at - 20,000-0-0
Total State outlay Rs. 55,744-0-0

3. The estimated outlay from Guaranteed and Loan Capital from 1st April to 30 June, the date on which agreeably to the Contract

the whole of the works should be completed,
is as follows:

Agriband Engineering estab^{ts} Rs. 50,000
Work on Main Canal Rs. 272,394
Distribution Rs. 66,086
Telegraph Rs. 5,856
Total Rs. 394,336

These figures are supplied by the Agent and
the Chief Engineer, and they must be taken
to mean the estimated value of work that
will remain to be done on 1st April 1871, and
the amount of the balances of funds which the
Company's officers calculate they will have in
their hands on that date, for, as the balance of
Guaranteed Capital undrawn on 1st September
1870 was only £14,816 and the balance of Loan
Capital undrawn on the same date was £32,000,
it is improbable that any portion of either
Capital will remain undrawn on 1st April 1871.

4. The estimated amount that will be avail-
able for Agents and Engineering Establishments
it will be observed is only Rspees 50,000 which
would probably suffice for three months, but
will not I believe be sufficient to pay sala-
ries and other charges for the four months from
March to June inclusive, as well as passage
money

money to England for all the employees of the Com-
pany who may then be dispensed with. Much
less is there any margin for paying salaries after
the 1st July should the Company continue their
operations, and the estimates have been already
so long delayed in waiting for the necessary inform-
ation from the Agent I cannot longer defer their
submission to Government in calling for further
explanation.

5. With regard to Revenue the gross receipts
are estimated at Rs. 1014,882
and the expenditure at Rs. 115,334
leaving net receipts at Rs. 899,548

The gross receipts shown are calculated on the
sum total of the areas for which distribution
projects under each Section have been or are
being prepared, namely 253,720 1/2 acres. The
Chief Engineer in one place has estimated
the area to be irrigated at 266,569 acres and in
another at 253,720 1/2 but the former figures
are clearly an error, and I have therefore inter-
posed the smaller quantity in my Budget, but
I have no expectation that anything at all
approaching even the smaller quantity will be
irrigated, or that there will be any net receipts.
indeed I believe the working expenses will far

far exceed the revenue receipts, and that without taking into account the heavy item of Rupees 75,000 for repairing the breaches of August 1870 which the Company's officers have included in this account. The working expenses exclusive of repairs to breaches are estimated at Rupees 40,334 which is only Rupees 20,010 in excess of the annual cost of the maintenance or conservancy establishment sanctioned for the upper 72 miles in Government Order as per margin, and which No 1397-4 June/70 would be quite insufficient to provide a like establishment for the remaining length of the Canal from Fortimula to Cuddapah, 116 miles as well as for a General Office and Chief Engineer's Establishment, and for ordinary repairs on a Canal 108 miles long.

6. With regard to the item of Rupees 75,000 for repairing the breaches of August 1870, I am doubtful if such work is fairly chargeable to the revenue account at all, and if it is, it belongs to the current and not to the next official year, for the breaches are now being repaired, and it will be inexplicable if the repairs are not completed before the

31st

31st March next.

Have the honor to be,
Sir,
Your most obedient servant,
J. G. M. S. P. L. C. O. D.
Consulting Engineer for S. C. Company

3. 1871-1872

Full. 1871-1872
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1871-1872

Madras Irrigation and Canal Company

Budget Estimate of the Expenditure on the Revenue Account in 1871/72

Items	Budget for 1870/71	Actual expen- diture from 1 st April to 30 th July 1870	Anticipated expenditure from August 1 st to 31 March 1871	Total of Probable Expenditure Column 3 + 4 for 1871/72	Remarks
Proportion on share of charges for General Management	4000			24000	
<u>Main Supply</u>					
Repairs of Sornkasula sluicet	500	999 6		999 6	500
of Main Canal 1 st section	1440	1497		1497	1440
of 2 nd	1260				1260
of 3 rd	1092	343 7 2	10000	10243 7 2	1092
of 4 th	1428				1428
of 5 th	1008				1008
of 6 th	1596				1596
of 7 th	1932				1932
of 8 th	2436				2436
of 9 th	2940				2940
of 10 th	672				672
	16334	2839 13 2	10000	12839 13 2	16334
<u>Distribution</u>					
Nil					
Building					
Nil					
Storage					
Nil					
Branches for 1870/71				75000	
	20334	2839 13 2	10000	12839 13 2	115334

Agents Office
Madras
14th November 1870
Compd. C.R.

C. R. S. S. S.
Chief Accountant

N. N. N. N. N.
Agent and Manager

No. 2
1/6/11/70

Madras Irrigation
Canal Company

Budget Estimate of
the Expenditure on the
Revenue Account in
1871/72.

P. H. 14656/70-
From 7- Dec 70 to 1/1/72.

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No. 3

Madras Irrigation and Canal Company

Budget Estimate of Area of land required in 1871/72.

Names of works for which land is required.	Area of lands under crops				Remarks.
	A	B	C	D	
For Distribution Channels & section Main Canal—	.				
2 ^d	.				
3 ^d	.				
4 th { 1 st Part—	41				
2 ^d Part—					
5 th { North Bowanafey—	35				
South — 4 th —	45				
6	51				
7	1721				
8	121				
9	324				
10	87				
For side cutting Lunnies or temporary Huts 1 st to 3 rd cuts		15			
6 — 2 nd —					
7 — 1 st —					
8 — 4 th —					
9 — 2 nd —					
10 — 4 th —					
For culingulak Channels enlarged—	24				

Agents Office of
Madras
3 November 70

W. B. S. S. S.
Chief Accountant

W. M. S. S. S.
Agent and Manager.

Colonel A. B.
Consulting Engineer 1870

Q. M. H. 656/70.
May - Octro de 1852.

Budget Estimate
of area of land
required in 1891/92

M. J. L. L.

803

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Madras Sprigat, 22, 23
and Canal Company,

4 Budget Estimate of
Expenditures for the
Year 1871/72

P. W. 14656/70-
 May 7 - Dec 70 A 1232

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2.

Jr
Madras Irrigation and Canal Company

Budget Estimate of Irrigation for the years 1871/72

Position	Areas Commanded	Area Supplied in 1870/71	Area to be Supplied in 1871/72	Remarks
1 st Section	1386	873	1386	I have the Collector's Estimate (Deputy Collector of Tirumal No. 200 of 7 th Instant) of the Government's demand for water for irrigation in the first 100 miles of Canal. 466569 Acres My Estimate (based on this proportion) for the remaining 90 miles - 400000. Total 866569 The Collector's Estimate for Sivel 8 th is not yet received. I imagine his Estimate includes certain demands & is within the mark.
2 nd Do	1956		1956	
3 rd Do	9837		9837	
4 th Do { 1 st Sub Division	14807	12	14807	
5 th Do { 2 nd Sub Division	10511		10511	
6 th Do { North Boranassay	9516 1/2		9516 1/2	
7 th Do { South Boranassay	12000		12000	
8 th Do	27970		27970	
9 th Do	29500		29500	
10 th Do	34237		34237	
	100000		100000	
	2000		2000	
			~~866569~~	Estimated Actual irrigation.
			253720 1/2	Considered sufficient.

Agent Office
Madras
3 Nov 1870

Ch. R. S. S. S.
Chief Accountant

J. Hartnoll Newton
Agent and Manager
Colonel R.E.
Consulting Engineer I.E.C.E.

100-44389-100

Massena Colonel P.R.C.
Consulting Engineer Lake Co.

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Particulars

1870/71 | 1871/72

		Irrigation and Canal Company						
1	1	Consulting Engineer for the Madras	2,000	2,000	24,000	24,720	21,000	23,540
		Consulting Engineer. Graded as Chief Eng	60	60	720			
		Presidency House rent	225	225	2,700			
1	1	Manager	42	42	504	7,254	7,254	7,222
1	1	Accountant	50	50	600			
1	1	Head Clerk	60	60	720			
1	1	draughtsman and Estimator	40	40	480			
1	1	W ^o	50	50	600			
1	1	Recordkeeper	10½	10½	126			
1	1	Moochee	8	8	96			
1	1	Peon	7	14	168			
2	2	W ^o	6	6	72			
1	1	W ^o	3	3	36			
1	1	Sweeper				1,080		
		For the Government Examiner	90	90				
1	1	Accountant	6	6	72			
1	1	Peon				31,974	28,254	30,762
Travelling allowance and batta for Office Es		Establishment				2,570	2,570	690
Office Expenses and Contingencies						1,200	1,200	325
Total of the Consulting Engineer's Department						35,744	32,024	31,777

Purchase of Land.

Number of Stems	Particulars	Area	Cropable Estimated Regular Estimated			
			Amount of Estimate to March 1871	for 1870/71	for 1870/71	for 1871/72
	<u>Kurnool District</u>					
	<u>Main Supply</u>					
	<u>Nil</u>					
	<u>Distribution</u>					
	Canal 1 st Section					
	D ^o 2 nd do					
	D ^o 3 rd do					
	D ^o 4 th do	41 1/2				
	D ^o 5 th do	80 1/2	69,447	10,000	6,284	10,000
	D ^o 6 th do	57 1/2				
	D ^o 7 th do	172 1/2				
	D ^o 8 th do	121 1/2				
	D ^o Sundry purposes	15 1/2				
	<u>Total for Kurnool</u>	2029	69,447	10,000	6,284	10,000
	<u>Cuddapah District</u>					
	<u>Main Supply</u>					
	<u>Nil</u>					
	<u>Distribution</u>					
	Canal 9 th Section	324				
	D ^o 10 th do	87	20,414	10,000	3,071	10,000
	D ^o Sundry purposes	24				
	<u>Total for Cuddapah</u>	435	20,414	10,000	3,071	10,000
	<u>Grand Total for Kurnool and Cuddapah</u>		89,861	20,000	9,355	20,000

Consulting Engineers Office }
Irrigation & Canal Company }
Madras 16th November 1870 }
Addⁿ Ex^l &c.

Y. A. M. W. L. Colonel R. E.
Consulting Engineer 1889

VI.
 The Operations of the Madras Irrigation and Canal Company for the
 year 1871/72

Trachy 2500
 Disbursements — 35744
 Use of Land — 20000
 Total 55744
 of Establishment.

Salary of Office Messrs	Estimate of 1871/72			Budget Estimate of 1870/71 per annum	Regular Estimate of 1870/71
	Per	Per	Total		
	Month	Annun	Charges		

Sept 1871 P. H. D.
Proceedings of the Madras Court.



Read the following

From

The Chief Engineer
for S. and C. Co.

(18. E. Dec 92 & 16. Dec 92)

With this
letter the Chief Engineer
submits the Budget estimates of
the Madras Irrigation and Canal
Company for the year 1871-72.

State Expenditure.

H. P.
J. D.

The expenditure under
this head during the ensuing
financial year is estimated at
Rs. 55,744 against Rs. 55,000
for 1870/71. This increase is due
to the salary of the Consulting
Engineer, who has been graded
as a Chief Engineer of the

second class, having been pro-
vided for at the consolidated
rate authorized by the Notifi-
cation of the Govt. of India
published in the Fort St.
George Gazette of the 25th Oct 70.
The estimate under this head
is accordingly placed for an
even sum of Rs. 55,800.

The Budget estimate under this head amounts to Rs. 3,89,336 which represents the estimated outlay from the 1st April to 30 June 1871, and which latter date the Company's contract will expire. As the balance of guaranteed and Loan Capital undrawn on the 1st Sept: 70 only aggregated

Revenue Account.

This Account is as follows as compared with the Budget and Regular estimate of 1870/71.

	Budget Estimate of 1870-71.	Regular Estimate of 1870-71.	Budget Estimate of 1871-72.
Lines Earnings—	99,000	11,858	10,14,882
Working Expenses—	20,334	12,840	40,334
	78,666	982 Loss.	9,74,548

Col. Carpendale explains that the receipts are calculated on the total area capable of being irrigated on the completion of the distribution works now in progress. This area he gives at 253,720 1/2 acres, but expresses the opinion

that as no such extent of land is at all likely to be irrigated the returns to be received will fall far short of the sum calculated upon, and he states his belief that they will not even cover working expenses. The Govt. fear that there is but too much reason to look for this result, but having no alternative they will allow the estimate to stand.

Seeing that the repairs of the breaches which occurred in August 1870 are in progress, His Excellency in Council agrees with Col. Carpendale that there should be no difficulty in completing them during the current year.

Ordered

Ordered that the following letter be sent:-

No 2966
The Secretary to the Govt. of India. P. B. D.

Sir,

I am directed to transmit the Budget Estimates of the Madras Irrigation and Canal Company for the year 1871-72.

2. As the Company's Contract will terminate on the 30th June 1871 the estimate exhibits the financial operations of the Company for three months, and the following is an abstract of that estimate.

501
The Commr. Engrs for the Govt.
Agent & Manager
Controller of Ma
Accts General
21. Revenue Dep^t

State Expend.

Establishments. ————— Rs. 35,800
Land ————— 20,000
Rs. 55,800

Construction Funds.

Main and distribution Channels. ————— Rs. 3,38,480
Telegraph. ————— 5,856
Establishments. ————— 50,000
Rs. 3,94,336

Revenue Account.

Gross Earnings. ————— Rs. 10,14,882
Dep. Working Expenses ————— 40,334
Rs. 9,74,548

The gross net revenue receipts which are entered at Rs. 9,74,548, are calculated on the supposition that the whole area to which water will be capable of being distributed by the works now in progress and likely

to be completed by the 1st July
next will be irrigated and
yield a return at the rate
of Rs. 6 per acre. This is however
a view of the prospects of the
Company in which His Ex-
cellency the Governor in
Council cannot share, and,
in referring the Govt. of
India to the opinions expressed
by this Govt. in my letter
of the 19th November 1869, No 5712.

I am to say that there is no
reason whatever to believe
that any great extension
of irrigation will take place
under the Canal except in
a gradual manner, or till
the people have learnt to
place confidence in its
stability and in the certainty

in the
This is a matter
which cannot be
conceded to the
benefit of the
the Company is
not to be
allowed to be in
with the plan
contradiction.

hope

and regularity of the supply
of water it is desired to af-
ford. His Excellency the
Governor in Council believes
that a considerable expendi-
ture will be required after
the Company's resources are
exhausted about the 1st July
next to place the Canal in
an efficient and safe condi-
tion and to provide for its
proper conservancy, ^{while} some
years must elapse ere even
an equilibrium can be
obtained between the re-
venue of the work and the
annual outlay on mainte-
nance and other permanent
charges.

Recd 29/12/1870
Specie of 29/12/1870

To the
Manager
Controller of
General
Revenue Dept

Handwritten signature

4656
of 1870 Madras.

PUBLIC WORKS.

Resident Engineer
of the Madras Irrigation
and Canal Company
and

Secretary to the Govt
of India

Dated

no. 6

10th Decr 1870, No. 1965/1966

No. 122-1237/24

Estimates. Paper
on the Budget esti-
mates of the Madras S. & C.
for the year 1871/72.

Forwarding, with remarks,
the Budget Estimates of the
Madras S. & C. for 1871/72