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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	438-39(9)	Press
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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
23rd February 1874.*

No. 431. Read the following letter from Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Fort St. George, 9th January 1874, No. 60:—

I HAVE the honour to submit the budget estimates of expenditure from State funds and from Loan Capital of the Madras Irrigation and Canal Company for the year 1874-75.

2. The estimated outlay on the establishment of control, and for compensation for land taken up, amounts to Rupees 14,400 as follows:—

	RS.
Establishment	6,400
Compensation for land taken up	8,000
Total outlay ...	14,400

3. The outlay from Loan Capital is estimated by the Chief Engineer and Manager as follows:—

	RS.
Agency and Engineering Establishment	16,000
General works on Main Canal	11,850
Distribution Channels	7,000
Buildings... ..	2,500
Electric Telegraph	100
Total ...	37,450

The above total is Rupees 15,050 less than the amount provided in 1873-74.

4. This office possesses no information as to the exact amount of capital in the hands of the Company. It is not known from what funds the repayments of loan funds amounting, up to November 1873, to £228,000, have been effected, but it appears to be probable that the Company possess a more than sufficient balance to meet the proposed outlay on Capital Account in 1874-75.

5. The estimate of expenditure on Revenue Account amounts to Rs. 1,82,900 against Rupees 1,74,200 in 1873-74, and is made up of the following items:—

	RS.
Share of General management	41,000
Conservancy staff, etc., first 6 sections	44,400
Do. do. 7th to 10th section	42,000
Repairs to Main Canal	30,000
Do. of Distribution works	20,000
Do. of Buildings	2,500
Do. of Telegraph	200
Contingencies	2,800

6. The latest information available shows the area of irrigation in the current season, up to October 1873, to have been 12,500 acres, with perhaps 3,000 acres of 2nd crop, and the revenue receipts from all sources will probably not exceed Rupees 60,000. The amount here given differs materially from that shown in the regular estimate, which is for—

	RS.
Kurnool	31,139
Cuddapah... ..	18,293
Total ...	49,432

*Proceedings of the Madras Government, Public Works Department,
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But the Collector's estimates do not appear to be correct owing to some lands being irrigated without their knowledge, and as the net demand statements for 1872-73 (*vide* G. Os., Nos. 2,971 and 3,029, dated 9th and 16th December 1873, respectively) show that the earnings of that year amounted to Rupees 50,016-9-4, while some extension of cultivation has taken place in the current year, I believe Rupees 60,000 to be a reasonable estimate. The Chief Engineer and Manager estimates the irrigation of 1874-75 at 31,000 acres, and all that can be said is that such an increase at present appears to be improbable. If the receipts of the coming year be estimated at 80,000 Rupees, allowance will have been made for as large an extension of cultivation as can be prudently supposed, and the deficit on revenue account to be provided for will be Rupees 1,02,900. It will be observed that this estimate of earnings is less

* One lakh of rupees.

* One lakh of rupees.

7. The disproportion between revenue receipts and expenditure, in respect of the cost of establishments, has been specially noticed in submitting to Government the detailed estimates for expenditure under all heads for the upper sections in 1874-75, and it has been suggested that these establishments should be allowed to remain on their present scale for another year, but that, should no marked extension of irrigation take place in 1874-75 up to the time for the preparation of the Budget of 1875-76, the Chief Engineer and Manager should be required to submit proposals for a material reduction. The Company being under engagements with their present staff, it would not be practicable, I think, to make any immediate reduction of moment, and indeed it is not quite clear how a canal nearly 190 miles long can be effectively supervised by a smaller number of officers than that now engaged upon this work, while the substitution of officers new to the canal and the country on lower salaries might result in only apparent but not real economy. In the present budget estimates the establishments are shown in detail, and the distribution of the charges for general management to Capital and Revenue respectively will be made in proportion to outlay in accordance with the orders now in force.

*Proceedings of the Madras Government, Public Works Department,
23rd February 1874.*

Detail of Estimate of State Expenditure on account of the operations of the Madras Irrigation and Canal Company for the year 1874-75.

ABSTRACT.

ABSTRACT.		RS.
I.—Establishment	...	6,400
II.—Purchase of land	...	8,000
III.—Excess of cost of maintenance, etc, over gross revenue receipts	...	1,02,900
Total...		1,17,300

I.—Controlling Establishment.

NUMBER.		Particulars.	Salary of Office.	ESTIMATE OF 1874-75.			Budget Estimate of 1873-74 charges per annum.	Regular Estimate of 1873-74.
1873-74.	1874-75.			Per Mensm.	Per Annum.	Total.		
			RS.	RS.	RS.	RS.	RS.	RS.
		Deputation allowance to Head Clerk of Office of	50					
		Chief Engineer for Irrigation	50					
1	1	Head Clerk	50	600				
1	1	Accountant	42	60				
1	1	Record-keeper	50	504				
1	1	Draughtsman and Estimator	40	600				
1	1	Peon	8	480				
1	1	Do.	7	96				
		<i>For the Government Examiner.</i>						
1	1	Accountant	120	1,440				
1	1	Peon	7	84				
		Travelling allowance and batta for office establishment				4,488	4,468	4,453
		Office expenses and contingencies				700	1,000	300
						1,200	600	918
		Total of Controlling Establishment...				6,358	6,068	5,671

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II.—Purchase of Land.

No. of Item.	Particulars.	Area in Acres.	Amount of Estimate.	Computed payments to 31st March 1874.	Estimate for 1873-74.	Regular Estimate of 1873-74.	Estimate for 1874-75.
	Kurnool District ...	...	Not estimated for, the Land Registers and Bills are sanctioned by Government from time to time prior to the transfer of the land.	75,400	4,000	3,423	4,000
	Total of Kurnool...	...	.....	75,400	4,000	3,423	4,000
	Cuddapah District ...	...	Vide remark above.	21,390	4,000	2,682	4,000
	Total of Cuddapah...	...	.....	21,390	4,000	2,682	4,000
	Grand Total for Kurnool and Cuddapah ...	...	.....	96,790	8,000	6,105	8,000

APPENDIX C.

Estimated Expenditure from Guaranteed and Loan Capital of the Madras Irrigation and Canal Company for 1874-75.

Items.	Budget Estimate for 1874-75.	Budget Estimate for 1873-74.	Regular Estimate for 1873-74.
Main Canal ...	RS. 11,850	RS. 29,000	RS. 31,520
Distribution ...	7,000	8,000	7,351
Buildings ...	2,500	500	500
Establishment ...	16,000	13,800	29,033
Electric Telegraph ...	100	1,200	1,200
Total outlay...	37,450	52,500	69,604

Revenue Account.

	GROSS EARNINGS.			WORKING EXPENSES, *BALANCE, DR., BROUGHT FORWARD FROM PREVIOUS YEAR.			BALANCE CR. OR DR. AT THE END OF THE YEAR.			PER-CENTAGE OF WORKING EXPENSES.		
	1873-74.			1873-74.			1873-74.			1873-74.		
	1874-75.	Budget Estimate.	Regular Estimate.	1874-75.	Budget Estimate.	Regular Estimate.	1874-75.	Budget Estimate.	Regular Estimate.	1874-75.	Budget Estimate.	Regular Estimate.
Main Canal from Soonkasala to the Pennair.	RS. 80,000	RS. 1,00,000	49,432	RS. 4,04,375	2,69,906	2,90,494	RS. 3,24,375	1,60,906	2,21,475	229	174 2	393 0

* This sum represents the estimated working expenses in 1874-75 added to the debit or loss on Revenue Account in 1873-74.

N.B.—For the reasons stated in paragraph 6 of the letter submitting the Budget to Government, it is considered that the entries here given, though necessarily founded on the statements received from the Collectors, are not reliable.

Proceedings of the Madras Government, Public Works Department,
23rd February 1874.

III.—REGULAR ESTIMATE FOR 1873-74.
Statement of Revenue Expenditure in comparison with Revenue receipts for two years, from 1st April 1873 to 31st March 1875.

No. of Item.	Particulars.	Amount.	Total.	No. of Item.	Particulars.	Amount.	Total.
1	Collections from 1st January to 31st March 1873, as per Accountant-General's Statement ...	RS. 19,586 12 7	RS. A. P. 7	4	Balance against Revenue on 1st January 1873, as per Revenue Account for half-year ended 31st December 1872 ..	RS. 73,766 10 2	RS. A. P. 2
2	Estimated Revenue receipts for 1873-74 ...	*49,432 0 0	...	5	Average expenditure from 1st January to 31st March 1873 ...	22,500 0 0	...
3	As per Collector's {Kurnool, 31,139 returns. Cuddapah, 18,293	...	...	6	Computed working expenses for 1873-74, as per Agent's Statement ...	1,94,227 1 0	...
	Balance against Revenue on 31st March 1874 ...	2,21,474 14 7	...		Total...	2,90,493 11 2	...
	Total...	...	...			...	...

* Rupees 60,000 are considered to be the more probable amount.

Budget Estimate for 1874-75.

No. of Item.	Particulars.	Amount.	Total.	No. of Item.	Particulars.	Amount.	Total.
1	Estimated earnings in 1874-75 ...	RS. 80,000 0 0	RS. A. P. 0	1	Balance against Revenue on 31st March 1874 ...	RS. 2,21,474 14 7	RS. A. P. 7
2	Balance against Revenue on 31st March 1875 ...	3,24,374 14 7	...	2	Add working expenses in 1874-75 as per Agent's Revenue Statement ...	1,82,900 0 0	...
	Total...	...	...		Total...	4,04,374 14 7	...

Fort St. George,
9th January 1874.
(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
23rd February 1874.

Budget Estimate of the Expenditure required on Construction Account for the year 1874-75.—(Concluded.)

Name of Work.	Amount of Sanctioned Estimates.	Actual Expenditure up to 31st March 1873.	Expenditure from 1st April to 31st July 1873.	Anticipated Expenditure from 1st Aug. to 31st Mar. 1874.	Total of Columns 4 and 5.	Total of Columns 3 and 6.	Probable Expenditure for 1874-75
1	2	3	4	5	6	7	8
<i>Buildings.—(Concl'd)</i>							
Office and Store building at Jupaud in Nagatore Division	RS. A. P. 4,123 0 0	RS. A. P. 4,123 0 0	.....	.....	.....	RS. A. P. 4,123 0 0	RS. A. P. 2,500 0 0
Repairs to Store building at Jupaud in Nagatore Division	1,000 0 0	364 15 7	.....	.....	.....	364 15 7	
Office and Store building at Pugradial	3,977 7 7	3,833 1 11	.....	.....	.....	3,833 1 11	
Do. do. at Donapaud in Koondaur	5,283 0 0	5,278 1 1	.....	.....	.....	5,278 1 1	
Do. and temporary Store-shed at Aya-lor in Koondaur	642 0 0	67 6 0	.....	.....	.....	67 6 0	
Quarters for Sub-Assistant Engineers and Assistant Surveyors, Koondaur	1,286 0 0	561 4 10	.....	.....	.....	561 4 10	
Repairs to Anicut Office at Zorapoor	327 0 0	307 12 0	.....	.....	.....	307 12 0	
Office, Store, and Workshop at Kurnool	30,612 0 0	15,158 11 7	.....	.....	.....	15,158 11 7	
Iron and Brass Foundry at do.	15,327 15 4	15,167 8 7	.....	.....	.....	15,167 8 7	
Rooms for receiving and despatching Stores at Kurnool	4,979 7 6	4,922 14 7	.....	.....	.....	4,922 14 7	
Engineers' Bungalow at Dhoor	3,200 0 0	2,887 7 2	.....	.....	.....	2,887 7 2	
32 Sluice Lascars' huts							
Total...	98,955 13 4	78,417 14 2	13 8 0	486 8 0	500 0 0	78,917 14 2	2,500 0 0
Telegraph line from Soonkasala to Cud-dapah	72,083 13 0	66,769 12 6	49 13 4	1,150 2 8	1,200 0 0	67,969 12 6	100 0 0
Alteration of Calingulabs, etc.	66,530 0 0	16,656 14 7	5,037 5 7	44,835 11 10	49,873 1 5	66,530 0 0	.....
Grand Total...	1,21,08,317 0 3	1,09,74,191 3 4	14,777 13 5	75,665 15 10	90,443 13 3	11,064,635 0 7	21,450 0 0

KURNOL,
20th November 1873.

(Signed) C. ARABADHAM,
Chief Accountant.

(Signed) J. H. LATHAM,
Chief Engineer and Manager.

Proceedings of the Madras Government, Public Works Department,
23rd February 1874.

Budget Estimate of the Expenditure on the Revenue Account for the year 1874-75.

Items.	Budget for 1873-74.	Actual Expenditure from 1st April to 31st July 1873.	Anticipated expenditure from 1st August 1873 to 31st March 1874.	Total of Columns 3 and 4.	Probable Expenditure for 1874-75.
1	2	3	4	5	6
	RS. A. P. 45,000 0 0	RS. A. P. 12,538 2 3	RS. A. P. 32,461 13 9	RS. A. P. 45,000 0 0	RS. A. P. 41,000 0 0
Proportion or share of charges for General Management					
<i>Main Supply, Conservancy Staff.</i>					
Soonkasala Anicut	...	...	...	...	...
Hindry Aqueduct	...	...	...	...	...
Main Canal, 1st Section	...	...	...	...	...
Do. 2nd do.	48,000 0 0	6,558 10 5	41,441 5 7	48,000 0 0	44,400 0 0
Do. 3rd do.	...	...	...	...	...
Do. 4th do.	...	...	...	...	...
Do. 5th do.	...	...	...	...	...
Do. 6th do.	...	...	...	...	...
Do. 7th do.	...	...	...	...	...
Do. 8th do.	48,000 0 0	12,343 10 2	35,656 5 10	48,000 0 0	42,000 0 0
Do. 9th do.	...	...	...	...	...
Do. 10th do.	...	...	...	...	...
Total...	96,000 0 0	18,902 4 7	77,097 11 5	96,000 0 0	86,400 0 0
<i>Main Canal, Repairs.</i>					
Soonkasala Anicut	...	...	...	...	...
1st Section	...	...	...	...	...
2nd do.	...	...	...	...	...
3rd do.	...	2,191 6 9	6,763 2 3	8,954 9 0	20,000 0 0
4th do.	...	...	...	...	...
5th do.	...	...	...	...	...
6th do.	...	...	...	...	...
7th do.	...	...	...	...	...
8th do.	...	2,934 7 10	7,455 8 2	10,390 0 0	10,000 0 0
9th do.	...	...	...	...	...
10th do.	...	...	...	...	...
Total...	.....	5,125 14 7	14,218 10 5	19,344 9 0	30,000 0 0

Budget Estimate of the Expenditure on the Revenue Account, etc.—(Concluded.)

Items.		Budget for 1873-74.		Actual Expenditure from 1st April to 31st July 1873.		Anticipated expenditure from 1st August 1873 to 31st March 1874.		Total of Columns 3 and 4.		Probable Expenditure for 1874-75.	
1		2		3		4		5		6	
		RS. A. P.		RS. A. P.		RS. A. P.		RS. A. P.		RS. A. P.	
<i>Distribution Repairs.</i>											
Under 1st Section, Main Canal...	...	1,000 0 0									
Do. 2nd do.	...	1,000 0 0									
Do. 3rd do.	...	2,000 0 0									
Do. 4th do.	...	2,000 0 0		530 9 5		17,469 6 7		18,000 0 0		10,000 0 0	
Do. 5th do.	...	3,000 0 0									
Do. 6th do.	...	3,000 0 0									
Do. 7th do.	...	3,000 0 0									
Do. 8th do.	...	3,000 0 0									
Do. 9th do.	...	3,000 0 0									
Do. 10th do.	...	3,000 0 0									
<i>Buildings.</i>											
Repairs to Soonkasala Office and Store Building	...	30,000 0 0		530 9 5		29,469 6 7		30,000 0 0		20,000 0 0	
Do. to Office, Store, and Workshop Building at Kurnool	...	1,500 0 0		45 9 0		1,454 7 0		1,500 0 0		2,500 0 0	
Do. to Ayaloor Bungalow	...										
Do. to Adamapully do.	...										
<i>Repairing Telegraph Line</i>											
<i>Storage.</i>											
<i>Nil.</i>											
<i>Contingencies.</i>											
Conservancy Work	...	1,200 0 0		396 9 2		803 6 10		1,200 0 0		2,000 0 0	
Do. Office...	...	500 0 0		359 14 10		140 1 2		500 0 0		800 0 0	
<i>Total...</i>		1,700 0 0		756 8 0		943 8 0		1,700 0 0		2,800 0 0	
<i>Grand Total...</i>		1,74,200 0 0		37,965 7 5		1,56,261 9 7		1,94,227 1 0		1,82,900 0 0	

KURNOOL,
20th November 1873.

(Signed) C. A. BADHAM,
Chief Accountant

(Signed) J. H. LATHAM,
Chief Engineer and Manager.

*Proceedings of the Madras Government, Public Works Department,
23rd February 1874*

*Budget Estimate of Establishments of the Madras Irrigation and Canal Company
for 1874-75.*

NUMBERS.			Rate of Salary.	1874-75.			1873-74.
1873-74.	1874-75.			Per Mensem.	Per Annum.	Total.	
		<i>General Management.</i>	RS.	RS.	RS.	RS.	RS.
1	1	Chief Engineer and Manager.	2,500	2,500	30,000	30,000	30,000
1	1	Chief Accountant	800	800	9,600	9,600	9,600
18	15	Clerks from Rupees 12 to Rupees 140	.....	840	10,080	10,080	11,880
3	3	Draughtsmen from Rupees 25 to Rupees 40	.....	74	888	888	888
52	52	Moochee and other Office servants	.....	206	2,472	2,472	2,472
		<i>Travelling Allowances.</i>					
		Chief Engineer and Manager.	.....	200	2,400	2,400	2,400
		Other allowances	.....	30	360	360	360
		Contingencies	.....	100	1,200	1,200	1,200
		Total General Management.	.....	.....	.....	57,000	58,800
		<i>CONSERVANCY.</i>					
		<i>Upper Section.</i>					
2	2	Engineers	.....	1,350	16,200	16,200	17,400
12	10	Overseers including Amins.	.....	480	5,760	5,760	7,500
4	3	Clerks from Rupees 20 to Rupees 50	.....	130	1,560	1,560	1,800
2	1	Draughtsman	.....	50	600	600	94
12	11	Tindals	.....	98	1,176	1,176	1,250
12	11	Chainmen	.....	77	924	924	1,050
856	141	Bankers	.....	846	10,152	10,152	10,652
6	4	Others	.....	74	888	888	1,054
		Allowances	.....	450	5,400	5,400	6,000
		Contingencies	.....	145	1,740	1,740	1,200
		Total...	.....	.....	.....	44,400	48,000
		<i>CONSERVANCY.</i>					
		<i>Lower Section.</i>					
2	2	Engineers	.....	1,250	15,000	15,000	17,400
18	15	Overseers including Amins.	.....	438	5,256	5,256	8,400
4	3	Clerks from Rupees 20 to Rupees 50	.....	105	1,260	1,260	1,440
1	1	Draughtsman	.....	50	600	600	50
24	20	Tindals	.....	123	1,476	1,476	1,680
14	14	Chainmen	.....	99	1,188	1,188	1,180
148	141	Bankers	.....	826	9,912	9,912	10,800
10	8	Others	.....	59	708	708	1,000
		Allowances	.....	400	4,800	4,800	4,850
		Contingencies	.....	150	1,800	1,800	1,200
		Total...	.....	.....	.....	42,000	48,000

Conservancy, Upper Section 44,400
Do., Lower Section 42,000
General Management 57,000

Total Establishments... 1,43,400

KURNOOL,
19th December 1873.

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

(Signed) J. H. LATHAM,
Chief Engineer and Manager.

*Proceedings of the Madras Government, Public Works Department,
23rd February 1874.*

Budget Estimate of Irrigation for the year 1874-75.

Position.	Areas commanded.	Areas supplied in 1873-74.	Areas to be sup- plied in 1874-75.	Remarks.
1st Section	90,000	6,000 1,000	8,000 2,000	Wet. Irregular.
2nd do.				
3rd do.				
4th do. { 1st sub-division				
5th do. { 2nd do.				
6th do. { North Bowanassy	1,20,000	8,000 6,000	11,000 10,000	Wet. Irregular.
7th do. { South do.				
8th do.				
9th do.				
10th do.				
Total...	2,10,000	21,000	31,000	

Budget Estimate of Area of Land required in 1874-75.

Names of Works for which land is required.	AREA OF LAND UNDER CLASS				Remarks.
	A.	B.	C.	D.	
For Distribution channels, 1st Section, Main Canal.	Acres. 300				Transfers of land from Class Band C to A, and re- transfer of Class B, C and D to Government are not included herein.
Do. do. 2nd do. do.					
Do. do. 3rd do. do.					
Do. do. 4th { 1st Part					
Do. do. { 2nd do.					
Do. do. 5th { North Bowanassy	300				
Do. do. { South do.					
Do. do. 6th Section					
Do. do. 7th do.					
Do. do. 8th do.					
Do. do. 9th do.					
Do. do. 10th do.					

KURNOOL, (Signed) C. A. BADHAM, (Signed) J. H. LATHAM,
20th November 1873. Chief Accountant. Chief Engineer and Manager.

A.
No. 1,174.

*Statement showing the amounts on account of the Revenue of Madras Irrigation and Canal
Company, collected up to 30th September 1873, and the expected Receipts up to 31st
March 1874.*

Amount collected from 1st April to 30th September 1873.	Probable amount that can be realized from 1st October 1873 to 31st March 1874.	Remarks.
RS. A. P. 21,138 8 6	RS. A. P. 10,000 0 0	.....

KURNOOL, (Signed) J. HOPE,
28th October 1873. Acting Collector.

*Proceedings of the Madras Government, Public Works Department,
23rd February 1874.*

A.
*Statement showing the amounts on account of the Revenue of Madras Irrigation and Canal
Company, collected up to the 30th September 1873, and the expected Receipts up to 31st
March 1874.*

Amount collected from 1st April to 30th September 1873.	Probable amount that can be realized from 1st October 1873 to 31st March 1874.	Remarks.
RS. A. P. * 10,061 4 9	RS. A. P. † 8,231 11 2	RS. A. P. * 10,056 7 9 Canal revenue. 4 13 0 Interest. 10,061 4 9 † 1,907 9 9 Amount collected in the months of October and November 1873. 6,324 1 5 Probable amount that can be realized from 1st December 8,231 11 2 1873 to 31st March 1874.

CUDDAPAH, (Signed) T. KRISHNA RAO, (Signed) M. RAMASAWMY,
16th December 1873. Deputy Collector. Ag. Dy. Collector,
for Collector.

No. 432. ORDER THEREON, 23rd February 1874, No. 438.

IRRIGATION, No. 30.

Account.

WITH his letter above recorded the
Chief Engineer for Irrigation submits
the regular estimate of the Madras
Irrigation and Canal Company for the

year 1873-74 and the budget estimate for 1874-75.

2. The estimate of State expenditure for 1874-75 is as follows:—

	RS.
Establishment*	6,400
Purchase of land *	8,000
Excess of working expenses over gross receipts	1,02,900
Total	1,17,300

3. The charges on account of establishments are on the sanctioned scale.
The estimate for the purchase of land, which is the same in amount as that for the
current year, is accepted.

4. It is observed that the difference in earning between the budget estimate
of 1 lakh and the regular estimate of Rupees 49,432 for the current year is that
shown by the statements form A received from the Collectors of Kurnool and
Cuddapah, but that the Chief Engineer for Irrigation with reference to the reported

* Rupees 50,017.

area of irrigation and to the settled
demand* on account of the Canal
revenue for 1872-73 estimates the earnings of the current year at Rupees 60,000.
The receipts for 1874-75 are put down at 80,000, regarding which it may be

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observed that it is not practicable to do more than make a rough approximation, but that the estimate is apparently reasonable. Should this estimate prove correct, the deficit on Revenue Account will for the year be Rupees 1,02,900, and for this, as in the current year, the Government of India will be asked specially to provide.

5. The estimate of Capital outlay, which is accepted, is Rupees 37,450, as follows:—

	RS.
Agency and Engineering Establishment	16,000
Main Canal Works	11,850
Distribution Channels	7,000
Buildings... ..	2,500
Electric Telegraph	100

This amount will have to be met from the balances in the hands of the Chief Engineer and Manager and the Directors of the Company, the amount of these being unknown, as no information has been furnished as to the funds from which repayments on account of the loan of £600,000 have been met.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

No. 433. (Docket No. 439, dated 23rd February 1874.)

Copy of the above forwarded to the Government of India.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

MEMORANDUM.

REQUESTED for reference the under-mentioned papers:—

*Letter No 184 from the Chief Engineer and Manager M. L. & Co.
with an enclosure
718th Dec 73 submitted to Govt with this Office 17th Co
29th January 1874*

OFFICE OF THE CHIEF ENGINEER
FOR IRRIGATION,

5th October 1874.

D. W. Harrison
Lead Clerk.

To

The Registrar of the *P. W. Department*

taken up

8000
Total outlay 14,400

Fort Saint George 9th January 1874.

No 60

From,

The Chief Engineer for Irrigation

To,

The Secretary to Government
Public Works Department.

Sir,

Encls 13.

I have the honor to submit
the Budget Estimates of expenditure
from State Funds and from Loan
Capital of the Madras Irrigation
and Canal Company for the year
1874-75.-

2 The estimated outlay on the
establishment of control, and for
compensation for land taken up,
amounts to Rupees 14,400 as follows.-

Establishment	_____	Rupees 6,400
Compensation for land	_____	8000
taken up	_____	
Total outlay	_____	14,400

estimate which is for

Hurnool Rupees 31,139

Cuddalore - " - 18,293

Total - 49,432

but the Collectors' estimates do not
^{owing to some lands being irrigated without their knowledge,}
appear to be correct, and as the Net
Demand Statements for 1872-73 (vide
G.O. Nos 2971 and 3029 dated 9th and
16th December 1873 respectively) show
that the earnings of that year amounted
to Rupees 50,016-9-4, while some exten-
sion of cultivation has taken place
in the current year, I believe Rupees
60,000 to be a reasonable estimate.
The Chief Engineer and Manager
estimates the irrigation of 1874-75 at
31,000 acres, and all that can be said
is that such an increase at present
appears to be improbable. If the
receipts of the coming year be esti-
mated at 80,000 Rupees, allowance
will have been made for as large
an extension of cultivation as can
be prudently supposed, and the
deficit

* 1 Lac of
Rupees.

21. 3
deficit on Revenue account to be pro-
vided for will be Rupees 1,02,900. It
will be observed that this estimate
of earnings is less considerably than
that made for the current year, but
the extension of irrigation has not
made that progress which it seemed
reasonable a year ago to anticipate
and all that can now be done is
to estimate in accordance with the
circumstances as they now appear.

7 The disproportion between
Revenue receipts and expenditure, in
respect of the cost of establishments,
has been specially noticed in sub-
mitting to Government the detailed
estimates for expenditure under
all heads for the Upper Sections in
1874-75, and it has been suggested
that these establishments should
be allowed to remain on their present
scale for another year, but that,
should no marked extension of
irrigation

irrigation take place in 1874-75 up to the time for the preparation of the Budget of 1875-76, the Chief Engineer and Manager should be required to submit proposals for a material reduction. The Company, being under engagements with their present staff it would not be practicable, I think, to make any immediate reduction of moment, and indeed it is not quite clear how a canal nearly 190 miles long can be effectively supervised by a smaller number of officers than that now engaged upon this work, while the substitution of Officers new to the Canal and the country on lower salaries might result in only apparent but not real economy. In the present Budget estimates the establishments are shown in detail, and the distribution of ^{the} charges for general management

23 4
management to Capital and Revenue respectively will be made in proportion to outlay in accordance with the orders now in force.

I have the honor to be,
Sir,

Your most obed^t servant,

Wm. L. L. Smith
Chief Engineer for Irrigation

P. B. 1894 Receipt
From Pro: of Goodm. Office
No. 289.

Chief Engineer
for brigade
to the Secretary
of War. M. &
J. B.

Ordered
Rec'd 17th January
1894.

Rec'd
1894.

Submits Report
estimate of the
of Canal Company
for 1893 & 1894
Budget estimate

Rec'd
No 438-439-23
J. B.

No 431

Original

Detail of Estimate of State expenditure on account of the operations of the Madras Irrigation and Canal Company for the year 1874-75				Abstract.			Rupees		
I Establishment							6400		
II Purchase of land							8000		
III Excess of cost of maintenance &c over				gross Revenue receipts			102900		
I Controlling Establishment.				Total			117300		
Number		Particulars.	Salary of Office	Estimate of 1874-75.			Budget Regular Estimate of 1873-74 charges of 1873-74 per annum.		
1873-74	1874-75			Per Mensem	Per Annum	Total.			
		Deputation allowance to Head Clerk of Office of Chief Engineer for Irrigation	50	50	600	4488	4468	4453	
1	1	Head Clerk	50	50	600				
1	1	Accountant	42	42	504				
1	1	Record keeper	50	50	600				
1	1	Draughtsman and Estimator	40	40	480				
1	1	Peon	8	8	96				
1	1	Peon	7	7	84	4488	4468	4453	
		<u>For the Government Examiner.</u>							
1	1	Accountant	120	120	1440				
1	1	Peon	7	7	84	4488	4468	4453	
		Travelling allowance and battha for Office Establishment			700		1000	300	
		Office expenses and Contingencies			1200		600	918	
Total of Controlling Establishment				6388			6068	5671	

II Purchase of Land.

No. of
Item.

Particulars.

Area in Acres. Amount of Estimate. Computed payments to 31st March 1874. Estimate for 1873-74. Regular Estimate for 1873-74. Estimate for 1874-75.

Hurnool District.

Not estimated for, the Contd Registers and Bills are same as those by Government from time to time prior to the transfer of the land.

75,400 4,000 3,423 4,000

Total of Hurnool.

75,400 4,000 3,423 4,000

Luddapah District.

D: 21,390 4,000 2,682 4,000

Total of Luddapah.

21,390 4,000 2,682 4,000

Grand Total for Hurnool and Luddapah.

96,790 8,000 6,105 8,000

Appendix C. Estimated expenditure from Guaranteed and Loan Capital of the Madras Irrigation and Canal Company for 1874-75.

Items	Budget Estimate for 1874-75	Budget Estimate for 1873-74.	Regular Estimate for 1873-74.
Main Canal	11,850	29,000	31,520
Distribution	7,000	8,000	7,351
Buildings	2,500	500	500
Establishment	16,000	13,800	29,033
Electric Telegraph	100	1,200	1,200

Total outlay 37,450 52,500 69,604

Revenue Account.

Gross earnings.	Working expenses + balance - or + at the brought forward end of the from previous year year.	Balance Cr.	Per centage of working expen. = per.
1873-74.	1873-74	1873-74	1873-74
1874-75 Budget Estimate	1874-75 Budget Estimate	1874-75 Budget Estimate	1874-75 Budget Estimate
1874-75 Regular Estimate	1874-75 Regular Estimate	1874-75 Regular Estimate	1874-75 Regular Estimate

Main Canal from Sookkasala to the Pennair. 80,000 1,000,000 49,432 4,043,375 2,699,006 2,704,974 3,243,375 1,699,006 2,214,75 229,174.2 393.0

* This sum represents the estimated working expenses in 1874-75 added to the debit or loss on Revenue Account in 1873-74.

N.B. For the reasons stated in para 6 of the letter submitting the Budget to Government it is considered that the entries here given, though necessarily founded on the statements received from the Collectors, are not reliable.

III. Regular Estimate for 1873-74. Statement of Revenue Expenditure in Comparison with Revenue receipts for 2 years from 1st April 1873 to 31st March 1875.

No. of Item	Particulars.	Amount	Total.	W. of Item.	Particulars	Amount	Total.
1	Collections from 1 st January to 31 st March 1873 as per Accountant General's Statement	19,586,12.7			4	Balance against Revenue on 1 st January 1873 as per Revenue Account for half year ended 31 st December 1872	73,766 10 2
2	Estimated Revenue receipts for 1873-74 As per Collectors' returns (Annual. 311,39 4,9432. " Subscript 18293)				5	Average expenditure from 1 st January to 31 st March 1873	22,500 "
3	Balance against Revenue on 31 st March 1874 22,174 14 7				6	Computed Working expenses for 1873-74 as per Agents' Statement	19,422 1 "
	Total Receipts	29,049 3 11 2				Total Receipts	29,049 3 11 2

* Receipts 6,000 are considered to be the more probable amount.

Budget Estimate for 1874-75.

1	Estimated earnings in 1874-75	80,000		1	Balance against Revenue on 31 st March 1874	22,174 14 7	
2	Balance against Revenue on 31 st March 1875	32,374 14 7		2	Add working expenses in 1874-75 as per Agents' Revenue statement	18,290 "	
	Total	404,374 14 7			Total	404,374 14 7	

For St. George.
9 January 1874

Volunteers
Chief Engineer for Irrigation

St. Col. R. E. O.

Recd

Statement shewing the amounts on account of the
Revenue of M. Sand S. Co. collected upto 30th September,
and the expected receipts upto 31st March 1874. —

Amount collected Probable amount
from 1st April that can be realised
to 30th September 1873. from 1st October 1873. to 31st March 1874. Remarks.

P. A. O. P. A. O.

2,138 & 6/10,000 = 3,138

Lumsden
Collectors Office E. L.
28th October 1873.

J. H. H. H.
Acting Collector
The Chief Engineer for Irrigation
and Joint Secretary to Government
P. W. D.
Fort Saint George.

Ph. J. 23-2-74
In N. 431.
P. W. 289/74

1897 31st Dec 1897
From Wm. J. 365
Wm. J. 365

To Wm. J. 365
Wm. J. 365

for Wm. J. 365
to Wm. J. 365

Wm. J. 365
Wm. J. 365

Wm. J. 365
Wm. J. 365

Wm. J. 365
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Wm. J. 365

Wm. J. 365
Wm. J. 365

Wm. J. 365
Wm. J. 365

Wm. J. 365
Wm. J. 365

Madras Irrigation and Canal Company
Budget Estimate of the Expenditure on the Revenue Account for the Year 1874-75

Items	Budget for 1873-74		Actual expenditure from April 1st 1873 to 31st March 1874		Anticipated expenditure from August 3 and 21		Total of Columns 3 and 4		Probable expenditure for 1874-75	
	Rs	P	Rs	P	Rs	P	Rs	P	Rs	P
Proportion or Share of Charges for General Management	45000	-	12538	2 3	32461	13 9	45000	-	41000	-
<u>Main Supply Conservancy Staff</u> Soonhasala Anicut Bindry Aqueduct Main Canal 1 st Section										
Do 2 nd	48000	-	6558	10 5	41441	5 7	48000	-	44400	-
Do 3 rd										
Do 4 th										
Do 5 th										
Do 6 th										
Do 7 th										
Do 8 th	48000	-	12343	10 2	35656	5 10	48000	-	42000	-
Do 9 th										
Do 10 th										
Total	96000	-	18902	4 7	77997	11 5	96000	-	86400	-
<u>Main Canal Repairs</u> Soonhasala Anicut 1 st Section										
2 nd										
3 rd										
4 th										
5 th										
6 th										
7 th										
8 th										
9 th										
10 th										
Total			2191	6 1	6763	2 3	8954	9	20000	-
Total			2191	7 10	7455	8 2	10390	-		

Ms. 723.274
Ln. 9:431

Ms. 289/74
13
54/416/73

Print
103B.

XI

P.W. 289/74
12

Q. 4/416/73

Ms. 723.274

Ln. 9:431

See 3 in letter

Madras Irrigation & Canal Company
Budget Estimate of Irrigation for the year 1874-75.

Position	Area Commanded in 1873-74	Area Supplied in 1873-74	Area to be supplied in 1874-75.	Remarks
1 st Section				
2 nd "				
3 rd "				
4 th " { 1 st Subdivision	90,000	6,000	8,000	Not Irregular
5 th " { 2 nd Sub "		1,000	2,000	
6 th " { North Division				
7 th " { South "				
8 th "	42,000	8,000	11,000	Not Irregular
9 th "		6,000	10,000	
10 th "				
Total	210,000	21,000	31,000	

U.S. & Co.
 Surveyors
 20th November 1873

Approved
 A.V.S.

[Signature]
 Chief Engineer

[Signature]
 Chief Engineer & Manager

Madras Irrigation & Canal Company.

Estimated Expenditure from Guaranteed and Loan Capital of the Madras Irrigation and Canal Company for 1874-75.

Items	1874-75	Budget Estimate for 1872-74	Regular Estimate for 1872-74
Main Canal	11,850		31,520
Distribution Channels	7,000		7,351
Building	2,500	52,500	500
Establishment and Contingencies	16,000		29,033
Electric Telegraph	100		1,200
Total Outlay	37,450	52,500	69,604

M. S. & Co.
Surgeon
20th November 1873

Compared
H. F.

[Signature]
Chief Accountant

[Signature]
Chief Engineer & Manager

37

P.W. 289/44

11

Ph. 7 23.21

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Budget Estimates of Area of land required in 1874-75

Transfers of land from class
B & C to A, & re-transfer of
class B & C to B & C are not
included herein.

E. H. Barker
Chief Accountant

J. W. Hatherly
Chief Engineer & Manager

Compared A.

Encl 2. letter

[Handwritten notes:]

Ph. 723. 276.

P.W. 289/7.
96

W. 431.

[Handwritten signature]

Madras Irrigation and Canal Company

Budget Estimate of the Expenditure required on Construction Account for the Year 1874-75.

9

Name of work	Amount of Estimated Expenditure		Actual Expenditure from 1st April 1873 to 31st July 1873		Anticipated Expenditure from 1st August 1873 to 31st March 1874		Total of Columns 4 and 5		Total of Columns 3 and 6		Remarks for 1874-75
	No.	Rs.	No.	Rs.	No.	Rs.	No.	Rs.	No.	Rs.	
Minor works at Kurnool	303080	-	60226	7	-	-	-	-	60226	7	AP
Do Do	485122	-	47825	9	7	-	500	-	47715	8	7
Do Do	171727	1	6655	13	-	-	-	-	6655	13	AP
Do Do	438233	1	428569	7	9	-	500	-	429069	7	9
Do Do	276325	-	276324	10	8	-	-	-	276324	10	8
Do Do	65000	-	49584	8	3	-	-	-	49284	8	3
Do Do	1097738	6	1097108	-	1	290	12	6	110115	-	1
Do Do	993207	3	198513	8	6	5319	15	10	100000	-	1
Do Do	978981	-	95982	4	3	-	-	-	91982	4	3
Do Do	1056122	8	981764	6	5	-	-	-	983764	6	5
Do Do	881912	10	871988	11	2	-	-	-	879988	11	2
Do Do	946894	4	861941	1	8	-	-	-	867941	1	8
Do Do	744170	12	669369	7	5	217	9	5	671869	7	5
Do Do	825625	13	824981	5	10	257	8	-	827481	5	10
Do Do	956670	8	791068	1	11	1411	13	9	793568	1	11
Do Do	257265	11	191919	9	6	-	-	-	191419	9	6
Total	11477626	11	1055498	3	8	7687	11	5	31519	45	10
Do Do	62440	-	52484	1	7	-	-	-	52484	1	7
Do Do	7002	15	590	10	-	-	-	-	5590	10	-
Do Do	6000	-	5222	4	4	-	-	-	5222	4	4
Do Do	11175	8	10295	13	8	-	-	-	10295	13	8
Do Do	47111	14	33770	5	7	-	-	-	34874	5	7
Do Do	76	-	72	12	6	-	-	-	72	12	6
Do Do	20260	-	7595	12	10	-	-	-	10595	12	10
Do Do	71820	-	45216	8	10	33	5	7	44216	8	10
Do Do	46295	15	2062	10	3	132	15	6	21462	10	3
Do Do	57557	12	3560	13	10	1350	12	-	56511	9	10
Do Do	49772	12	33446	9	7	22	6	-	34446	9	7
Do Do	10534	1	8994	1	7	450	-	-	9494	1	7
Do Do	925	2	25	2	6	-	-	-	925	2	6
Total	1888	-	1116	11	4	-	-	-	1416	11	4
Do Do	330731	1	20764	4	10	1989	7	1	5361	4	11
Do Do	5050	-	1666	5	1	-	-	-	4566	5	1
Do Do	1244	13	60	-	-	-	-	-	60	-	-
Do Do	5986	-	5985	4	9	-	-	-	5985	4	9
Do Do	4359	5	4359	5	9	-	-	-	4359	5	9
Do Do	7297	8	7536	9	-	13	8	-	7550	1	-
Do Do	645	-	317	14	-	-	-	-	317	14	-
Do Do	427	-	30	10	2	-	-	-	30	10	2
Do Do	2225	3	1990	3	7	-	-	-	1990	3	7
Do Do	584	-	599	3	6	-	-	-	599	3	6
Do Do	4123	-	4123	-	-	-	-	-	4123	-	-
Do Do	100	-	364	15	7	-	-	-	364	15	7
Do Do	5977	7	5533	1	11	-	-	-	5533	1	11
Do Do	5283	-	5278	1	1	-	-	-	5278	1	1
Do Do	642	-	67	6	-	-	-	-	67	6	-
Do Do	1286	-	561	4	10	-	-	-	561	4	10
Do Do	327	-	307	12	-	-	-	-	307	12	-
Do Do	5612	-	1518	11	7	-	-	-	1518	11	7
Do Do	15327	15	1167	5	7	-	-	-	15167	5	7
Do Do	4979	7	4922	14	7	-	-	-	4922	14	7
Do Do	3200	-	2887	7	2	-	-	-	2887	7	2
Total	98460	13	78417	14	2	13	8	-	78917	14	2
Do Do	72032	13	1769	12	6	49	13	4	1150	2	8
Do Do	66820	-	1186	11	7	507	5	7	4935	11	10
Grand Total	12108317	-	31097419	3	4	14777	13	5	75665	15	10

Telegraph line from Combalala to Buddah

Abolition of Balingal

No. 1 of 1874

Managers Office

Kurnool 20 November 1873

Chief Accountant

Chief Engineer and Manager

Marras Irrigation and Canal Co.
Chief Engineer and Managers Office
Kurnool 20th November 1873.

No 173

From.

The Chief Engineer & Managers
M. I. & C. Co.

To.

The Chief Engineer for Irrigation
and Joint Secretary to Govt.
Port Saint George

Sir,

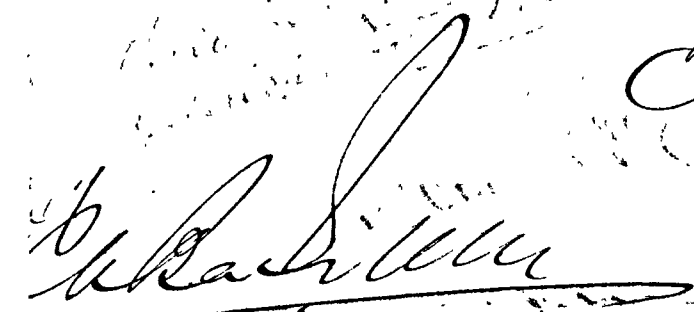
I have the honor to forward herewith
the following Estimates for the Budget
of the year 1874-75.

- 1 Statement of Estimated expenditure from
Guaranteed & Loan Capital
- 1 " " Budget Estimate of area of land requir
- 1 " " " Irrigation
- 1 " " of the Expenditure on Revenue account
- 1 " " of " " on Construction.. ✓

5 Enclosures

I have the honor to be
Your Most ^{ob} Servant

John Hatham
Chief Engineer & Manager


H. R. Miller

Chief Accountant
General Storekeeper

Under Secretary
Keeper.

Maoras Irrigation and Canal Co.
Chief Engineer and Manager's Office
Kerur 15th December 1873.

No. 182

From

The Chief Engineer and Manager
M. J. C. Co.

To

The Chief Engineer for Irrigation
and District Secretary to Govt.
Fort Saint George.

Sir,

With reference to the Estimates for the Budget
of 1874-75 which were forwarded to you with my
letter of 20th November 1873. I have the honor to
inform you that the sum of Rs. 54,000 entered
therein for General Management - of which Rs.
16,000 is put down for construction and Rs.
41,000 for Revenue - is made up thus.

Chief Engineer and
Manager's salary 2,400

Chief Accountants do 800

General Staff 1,150

Contingencies $\frac{100 \text{ months}}{4.450 \times 12} = \text{Rs. } 54,000$

The amount set down for Establishment is in excess
of the present actual expenditure but I have thought
it better to be on the safe side and to set down such an
amount as, in the event of any unforeseen expenditure
occurring, will cover all possible contingencies.

I have the honor to be
Sir,

Yours Most Obedt. Servant

John Waltham
Chief Engineer and Manager

Chief Accountant
Chief Clerk: Storekeeper

Receipt of 8th December 73

No. 688

No. 173

Ed. W. C. 1873

Recd

Chief Engineer and Manager's Office
Kerur

The Chief Engineer

Manager's Office

The Chief Engineer
for Irrigation

Recd 28th Dec 73

Rs. 17 23.2.74

5 Rupees

Amounts Estimated for
the Budget of 1874-75

Stations	
Collected	
Donors	
Jan 1st	
30 - Oct 1st	
100	
Compd 23 C	
30 - Oct 1st	
Donors	

Buddapah Collector's Office

N^o 55-

17th December 1873

From W. D. Hasley Esquire
Collector of
Buddapah

To Gen^l Colonel J. Mullins R. E.
Chief Engineer for Irrigation
Madras

Sir,
I have the honor to forward the A-
Statement called for in your letter N^o 83,
dated 21st November last.

I have the honor to be
Sir,

Your Most Obedt. Servant

Rama Swamy
A. G. Deputy Collector
for Collector

Escd 11/12
25/12/73

N^o 182
C. D. No 4531
The Chief Engineer & Madras
W. D. & C. G.

To The Chief Engineer
for Irrigation
for the year

N^o 23-2/74
21/11/73

Dated 15th Dec 1873
Recd 22/12/73

Grain details of the
sum of Rs. 57,000
entirely under General
Management in the
District of 14/75

P. N. 209/74

No. 438 Bd 5
 Pr. of the Madras for. Account
 Read the following:

From the Chief Eng. for
 Irrigation { P.E. No. 60 of 9 Jan 74 }

11/11

With his letter
 above recorded the Chief
 Engineer for Irrigation
 submits the regular esti-
 mate of the Madras
 Irrigation and Canal
 Company for the year
 1873-74 and the Budget
 Estimate for 1874-75.

M. J.
 19/11

2 The estimate
 of State expenditure
 for 1874-75 is as
 follows

4/682.4.2

145/120
 145/120

125.723.272
 1. 11.4.31.

follows.

Establishment Expenses 6,400

Purchase of Land " 8,000

Excess of working expenses
over gross receipts—

Total Rs. 117,300

3 The charges on
account of establishments
are on the sanctioned scale.

The estimate for the purchase
of land, which is the same
in amount as that for the
current year, is accepted.

4 It is observed that
the difference in carrying
between the Budget estimate
of 1 lac and the regular
estimate of Rs. 49,432 for
the current year is that
shown by the Statement
form

x Rs. 50,017.

21
20
form A received from the
Collectors of Tumkur and
Guddapah, but that the
Chief Engineer for Irriga-
tion with reference to the
reported area of irrigation
and to the settled demand
on account of the Canal
Revenue for 1872-73 estimates
the earnings of the current
year at Rs. 60,000—
The receipts for 1874-75
are put down at 80,000,
regarding which it may
be observed that it is not
practicable to do more
than make a rough ap-
proximation, but that the
estimate is apparently
reasonable. Should this
estimate

estimate prove correct, the deficit on Revenue account will for the year be Rspees 1,02,900 and for this, as in the current year, the Government of India will be asked specially to provide.

5 The estimate of Capital outlay, which is accepted, is Rspees 37,450, as follows.

Agency & Engineering Estab.	Rspees 16,000.
Main Canal Works	11,850.
Distribution Channels	7,000.
Buildings	2,500.
Electric Telegraph	100.

This amount will have to be met from the balances in the hands of the Chief Engineer and Manager and

and the Directors of the Company, the amount of these being unknown, as no information has been furnished as to the funds from which repayments on account of the loan of £600,000 have been met.

Ch. Engr. for Govt.
Agent & Manager for the
Huntroller
Acct. Genl.
Rev. Dept.
Fin. Dept.
Desp. with S.C. 2/3/74.

By 12/1/74

No. 439.

Copy of the above forwarded to the Gov. of India -

Only the Sign. Copy desp.
27/2/74.
25 spare cpy desp. 2/3/74.

Ch 289
Capt. of US Army
PUBLIC WORKS.

The Chief Engineer for
Irrigation
And
The Secretary to the
Govt of India

Encl.
Recd.

Encl. 13

U. O. 23 Feb 1874 438
439

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