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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	3549-50	Press	<i>Original</i>
B.P. No.		Misr.	
Dated - 18. 12.		1955	
		1875	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
18th December 1875.*

No. 301. Read the following letter from Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Camp at Kothacottah, 8th November 1875, No. 44-A :—

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 1876-77.

2. The estimated outlay on the establishment of control and for compensation for land to be taken up amounts to Rupees 10,508 as follows :—

Establishment	RS.
Compensation for land	6,508
	4,000
Total outlay ...	10,508

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

Agency and Engineering Establishment	RS.
General Works on Main Canal... ..	10,950
Distribution Channels	28,950
Buildings	3,000
	900
Total ...	43,800

From Proceedings Madras Government of the 1st October 1875, No. 2,837, it will be seen that the balance of Capital available was in September last reported to be Rupees 39,533, and this will be reduced to some extent before the close of the current year. On the other hand, it was understood that the Capital Account would receive some credit by the transfer of stores for use on Revenue Account. The above provision for Capital Expenditure may, it is thought, stand on condition that the actual balance on the 1st April next is reported as soon as possible after that date, and that a list of works to be carried out from the balance is at the same time submitted for approval.

4. The estimate of Revenue Expenditure amounts to Rupees 1,54,998 against Rupees 2,00,578 in 1875-76, and is made up of the following items :—

Share of General Management	RS.
Conservancy Staff, &c., Upper Division	40,572
Do. do. Lower do.	38,460
Repairs to Main Canal	41,016
„ to Distribution Works	25,800
„ to Buildings	8,000
„ to Telegraph	1,500
	250
Total ...	1,55,598

5. The framing of an estimate of Revenue Receipts has always presented considerable difficulties. The introduction of new rules, offering irrigation on more favorable terms, has as yet had no marked effect upon the extent of the irrigation, and the increase of area in 1874-75 will not, so far as is known, compensate for the reduction in rates. The Chief Engineer and Manager estimates the acreage in 1875-76 at 16,716, that of 1873-74 being 15,299. For 1876-77 the area is shown

Appendix E.

*Proceedings of the Madras Government, Public Works Department,
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as 25,175. If 20,000 acres and 75,000 Rupees be taken for 1876-77 the estimate may be reached, but it is hardly likely to be exceeded. The annual revenue statement for the Kurnool District for 1874-75 not having yet been received from the Collector, the information for that year is incomplete. In Cuddapah the irrigation of that and the preceding year was as follows:—

	1873-74.	1874-75.
Area Acres	6,381	6,115
Revenue Rupees	25,006	18,033

6. The only alteration made in the estimates as received from the Madras Irrigation and Canal Company's Chief Engineer, are the omission of a provision of Rupees 500 for bankers' uniforms, with reference to G.O., No. 2,974, 18th October 1875, and a correction of a clerical error in the estimate of expenditure on Revenue Account.

MADRAS IRRIGATION AND CANAL COMPANY.

Budget Estimate of Establishments of the Chief Engineer's and Manager's Office for 1876-77.

NUMBERS.		Particulars.	Rate of Salary.	ESTIMATE FOR 1876-77.			ESTIMATE FOR 1875-76.
1875-76.	1876-77.			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
1	1	Chief Accountant ...	300	300	3,600	...	3,600
15	15	Clerks from Rs. 12 to 130 ...	...	827	9,924	...	10,080
3	1	Draughtsman ...	...	40	480	...	888
20	27	Moochee and other servants ...	...	176½	2,118	...	1,680
		<i>Travelling Allowances.</i>					
		Chief Engineer and Manager ...	...	200	2,400	...	2,400
		Contingencies ...	...	291½	3,000	...	5,500
		Other allowances ...	...	...	...	...	360
		Total ...	...	4,335½	51,522	*51,522	60,508

N B.—Capital Rupees	...	...	...	...	...	...	...	10,950*
Revenue „	...	...	...	...	...	...	...	40,573
								51,523

Particulars of the charges to be met from the sum of Rupees 3,000 entered under the head "Contingencies" and included in the above noted estimate:—

	RS.	A.	P.
Postage and Telegram	...	...	...
Stationery for Chief Engineer's and Manager's Offices	300	0	0
Oil, matches, wicks, for office use	550	0	0
Medical stores and expenses	60	0	0
Tapal bags and repairs to do.	550	0	0
Delivery ticket (Postal)	50	0	0
Premium on Treasury Bills and Letters of Credit	24	0	0
Subscription to District Gazette	600	0	0
Revenue Plans and mounting do.	1	8	0
House-rent and other items not specified	350	0	0
	514	8	0
Total ...	3,000	0	0

*Proceedings of the Madras Government, Public Works Department,
18th December 1875.*

Estimated Expenditure from Guaranteed and Loan Capital of the Madras Irrigation and Canal Company for 1876-77.

Items.	Budget Estimate for 1876-77.	Budget Estimate for 1875-76.	Regular Estimate for 1875-76.
	RS.	RS.	RS.
Main Canal	28,950	39,080	12,061
Distribution	3,000	3,860	1,850
Buildings	900	2,000	700
Establishment	10,950	14,780	7,209
Electric Telegraph	...	100	...
Alteration of Calingulaha	...	...	7,000
	43,800	59,820	28,820

Budget Estimate of the Expenditure required on Construction Account for the year 1876-77.

Name of Work.	Amount of Sanctioned Estimates.		Actual Expenditure up to 31st March 1875.		Expenditure from 1st April to 31st August 1875.		Anticipated Expenditure from 1st September to 31st March 1875.		Total of Columns 4 and 5.		Total of Columns 3 and 6.		Probable Expenditure for 1876-77.	
1	Rs.	P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Main Supply.														
Ancient and Head-works at Kurnool ...	3,03,080	0 0 0	60,731	1 2	...	...	...	...	...	...	60,731	1 2	...	...
Do. do. at Sookkalea ...	4,89,422	0 0 0	4,77,402	12 0	...	...	...	...	...	...	4,77,402	12 0	...	...
Do. do. at Somaswaram ...	1,71,727	1 7	68,070	4 2	21	8 7	56	0 0	77	5 7	68,147	12 0	100	0 0
Aqueduct across the river Hindry ...	4,35,233	1 11	4,35,122	10 8	...	...	...	...	...	...	4,35,122	10 8	...	...
Canal for one mile from the head-slots of the Kurnool ...	2,80,542	5 0	2,80,542	5 0	...	...	...	...	...	...	2,80,542	5 0	...	...
Ancient ...	65,000	0 0	49,615	0 9	...	...	...	...	...	...	49,615	0 9	...	...
South Main Canal, 1st Section, 17 1/2 mile ...	11,19,593	13 5	11,13,479	4 2	...	...	...	...	...	...	11,13,479	4 2	...	...
Do. 2nd " 18 1/2 to 32nd mile ...	20,15,705	12 2	20,20,454	5 11	...	...	...	...	...	...	20,20,454	5 11	...	...
Do. 3rd " 33rd to 43rd " ...	9,81,981	0 10	9,27,479	6 2	2,103	11 10	2,946	4 2	6,050	0 0	9,33,029	6 2	750	0 0
Do. 4th " 44th to 60th " ...	1,06,527	8 9	9,97,942	5 0	...	...	...	...	...	...	9,95,092	6 0	9,400	0 0
Do. 5th " 61st to 72nd " ...	8,90,240	1 1	8,90,196	4 5	...	...	...	...	...	...	8,92,146	4 5	500	0 0
Do. 6th " 73rd to 91st " ...	9,47,934	4 8	8,78,138	2 4	...	...	...	...	...	...	8,78,288	2 4	1,000	0 0
Do. 7th " 92nd to 114th " ...	7,46,003	12 2	6,82,030	15 9	...	...	...	...	...	...	6,82,793	7 6	...	...
Do. 8th " 115th to 143rd " ...	8,37,878	4 2	8,37,878	4 2	...	...	...	...	...	...	8,35,023	6 0	600	0 0
Do. 9th " 144th to 178th " ...	9,62,114	8 4	8,95,423	8 8	...	...	...	...	...	...	8,95,606	8 8	300	0 0
Do. 10th " 179th to 186th " ...	3,57,265	11 2	1,95,526	0 6	...	...	...	...	...	...	1,95,618	5 9	...	...
Total	1,15,74,301	5 4	1,07,22,131	12 0	6,320	12 10	5,540	10 6	12,061	7 4	1,07,34,193	3 4	28,950	0 0
Alteration of Calingulabs, &c. ...	66,530	0 0	34,379	2 1	2,327	7 7	4,673	8 5	7,000	0 0	41,379	2 1	...	...
Telegraph Line from Sookkalea to Cuddapah ...	72,033	13 0	66,914	4 7	...	...	...	...	...	...	66,914	4 7	...	...
Breach repairs of August 1870 ...	63,440	0 0	54,084	1 7	...	...	...	...	...	...	54,084	1 7	...	...
Distribution.														
Branch channels and sluices of 1st section ...	7,002	15 5	5,727	1 8	...	...	...	...	...	...	5,727	1 8	350	0 0
Distribution works of the 2nd " ...	6,000	0 0	5,332	13 6	...	...	...	...	...	...	5,332	13 6	250	0 0
Do. do. of the 3rd " ...	11,175	0 0	10,524	1 10	...	...	...	...	...	...	10,524	1 10	500	0 0
Do. do. of the 4th " ...	47,101	14 0	34,657	2 9	...	...	...	...	...	...	34,657	2 9	500	0 0
Constructing a band across the canal in 45th mile, 4th Section.	71	7 5	71	7 5	...	...	...	...	...	...	71	7 5	...	...
Distribution works of the 5th section ...	21,076	10 8	10,214	12 8	...	...	...	...	...	...	10,214	12 8	500	0 0
Do. do. of the 6th " ...	72,838	5 4	44,923	5 1	...	...	...	...	...	...	44,923	5 1	500	0 0
Do. do. of the 7th " ...	47,517	9 6	23,003	5 5	...	...	...	...	...	...	23,003	5 5	500	0 0
Do. do. of the 8th " ...	61,650	8 8	43,882	5 3	...	...	...	...	...	...	43,882	5 3	500	0 0
Do. do. of the 9th " ...	81,175	4 0	35,633	2 4	...	...	...	...	...	...	35,633	2 4	500	0 0
Do. do. of the 10th " ...	15,617	2 1	11,522	0 3	...	...	...	...	...	...	11,522	0 3	...	...

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Name of Work.	Amount of Sanctioned Estimates.		Actual Expenditure up to 31st March 1875.		Expenditure from 1st April to 31st August 1875.		Anticipated Expenditure from 1st September to 31st March 1875.		Total of Columns 4 and 5.		Total of Columns 3 and 6.		Probable Expenditure for 1876-77.	
1	Rs.	P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Kurnool Town Water-supply														
Distribution works at Sookkalea ...	1,699	0 7	1,454	1 11	...	...	...	...	...	...	1,454	1 11	...	...
Total	3,43,277	9 1	2,27,767	3 11	...	...	1,850	0 0	1,850	0 0	2,29,617	3 11	3,000	0 0
Buildings.														
Sookkalea Station ...	6,045	10 8	6,045	10 8	...	...	...	...	...	...	6,045	10 8	...	...
Kurnool Workshop ...	30,613	0 0	17,141	6 1	...	...	...	...	...	...	17,259	14 2	...	...
Do. Hospital ...	6,118	0 0	4,976	3 9	...	...	...	...	...	...	4,976	3 9	...	...
Puggadial Station ...	3,977	7 7	3,871	12 8	...	...	...	...	...	...	3,871	12 8	...	...
Jupad do. ...	5,164	10 4	4,553	4 9	...	...	...	...	...	...	4,553	4 9	...	...
Velapanoor do. ...	2,715	8 5	2,615	8 5	...	...	...	...	...	...	2,615	8 5	...	...
Ayaloor do. ...	612	0 0	304	1 3	...	...	...	...	...	...	304	1 3	...	...
Dhoor do. ...	4,079	7 6	4,972	9 5	...	...	...	...	...	...	4,972	9 5	...	...
Watchers' huts ...	3,900	0 0	2,916	8 9	...	...	...	...	...	...	2,916	8 9	...	...
Yalloor Station ...	1,238	0 0	566	15 4	...	...	...	...	...	...	566	15 4	...	...
Kurnool Workshop Latrine ...	148	3 0	141	11 6	...	...	...	...	...	...	141	11 6	...	...
Overseer's house at Puggadial ...	297	2 0	282	7 3	...	...	...	...	...	...	282	7 3	...	...
Overseer's and Dresser's House at Jupad ...	576	5 0	457	10 8	...	...	...	...	...	...	457	10 8	...	...
Four Overseers' houses in Lower Division ...	558	5 0	421	11 9	...	...	...	...	...	...	421	11 9	...	...
Total	1,100	0 0	233	15 0	31	7 3	550	0 0	581	7 3	814	6 3	900	0 0
Abandoned Buildings.														
Kurnool Foundry, Overseers' huts, sheds and Ancient Office ...	15,654	15 4	15,631	5 1	...	...	...	...	...	...	15,631	5 1	...	...
Rowanassy Station ...	13,353	13 2	12,867	5 7	...	...	...	...	...	...	12,867	5 7	...	...
Donaapad do. ...	5,331	4 11	5,331	4 11	...	...	...	...	...	...	5,331	4 11	...	...
Total	1,00,610	13 11	82,710	8 9	149	15 4	550	0 0	699	15 4	83,410	8 1	900	0 0
Grand Total	1,22,19,193	9 4	1,11,87,987	0 11	8,998	3 9	12,613	2 11	21,611	6 8	1,12,09,598	7 7	32,850	0 0

* Includes for altering three 3rd-class bridges into 2nd-class for Rupees 4,955, and a proposed 2nd-class bridge for Rupees 7,160, submitted for sanction, vide letter, No. 100, of 11th September 1875, to the Chief Engineer for Irrigation.

† Includes for altering a 3rd-class bridge into 2nd-class for Rupees 2,755, and a proposed 2nd-class bridge for Rupees 6,070, submitted for sanction, vide letter, No. 100, of 11th September 1875, to the Chief Engineer for Irrigation.

KURNOL,
27th September 1875.

(Signed) C. DAWSON,
for Acting Chief Accountant, &c.

(Signed) A. J. DODSON,
Manager and Acting Chief Engineer.

Budget Estimate of the Expenditure on the Revenue Account for the year 1876-77.

Items.	Budget for 1875-76.	Actual Expenditure from 1st April to 31st August 1875.	Anticipated Expenditure from 1st September to 31st March 1876.	Total of Columns 3 and 4.	Probable Expenditure for 1876-77.	Remarks.
	RS.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
Proportion for share of charges for General Management, including Contingencies	45,728	14,938 4 9	20,908 6 4	35,846 11 1	40,572	
<i>Main Supply, Conservancy Staff.</i>						
Upper Division, including Office Contingencies (Stationery) ...	43,600	15,396 12 6	23,345 0 0	38,741 12 6	38,460	
Lower do. (do.) ...	43,600	13,078 10 2	22,000 0 0	35,078 10 2	41,016	
Total ...	87,200	28,475 6 8	45,345 0 0	73,820 6 8	79,476	
<i>Main Canal Repairs.</i>						
Upper Division, including conservancy work, contingencies ...	20,000	22,062 3 4	4,284 0 0	26,346 3 4	18,000	
Lower do. (do.) ...	20,000	18,437 15 11	4,400 0 0	22,837 15 11	7,800	
Total ...	40,000	40,500 3 3	8,684 0 0	49,184 3 3	25,800	
<i>Distribution Repairs.</i>						
Upper Division ...	10,000	1,053 6 6	3,846 9 6	4,900 0 0	5,000	
Lower do. ...	15,000	1,592 6 10	1,950 9 2	3,543 0 0	3,000	
Total ...	25,000	2,645 13 4	5,797 2 8	8,443 0 0	8,000	
<i>Building Repairs.</i>						
Upper Division ...	2,500	266 3 5	533 12 7	800 0 0	1,000	
Lower do. ...	2,500	455 8 1	1,650 7 11	2,106 0 0	500	
Total ...	2,500	721 11 6	2,184 4 6	2,906 0 0	1,500	
Repairing Telegraph Line ...	150	4 0 0	113 0 0	117 0 0	250	
Storage—Nil.						
Grand Total ...	2,00,578	87,285 7 6	83,031 13 6	1,70,317 5 0	1,55,598	

KURNOOL,
27th September 1875.(Signed) C. DAWSON,
for Acting Chief Accountant, &c.(Signed) A. J. DODSON,
Manager and Acting Chief Engineer.Proceedings of the Madras Government, Public Works Department,
18th December 1875.

Budget Estimate of the Conservancy Establishments for 1876-77.

NUMBERS.	Particulars.	ESTIMATE FOR 1876-77.			ESTIMATE FOR 1875-76.
		Per Men- sem.	Per An- num.	Total.	Charges per Annum.
		RS.	RS.	RS.	
	<i>Upper Division.</i>				
2	Engineers	1,370	16,440	...	43,600
8	Chainmen	56	672	...	
4	Overseers	360	4,320	...	
4	Amins	80	960	...	
141	Bankers	846	10,152	...	
3	Tindals	40	480	...	
8	Regulating Sluicemen	48	576	...	
1	Surveyor	140	1,680	...	
3	Chainmen to do.	21	252	...	
4	Accountants and Clerks	140	1,680	...	
2	Cash Peons	14	168	...	
2	Signallers	40	480	...	
	Contingencies (Stationery)	50	600	...	
	Total ...	3,205	38,460	38,460	43,600
	<i>Lower Division.</i>				
2	Engineers	1,470	17,640	...	43,600
7	Chainmen	49	588	...	
4	Overseers	360	4,320	...	
4	Amins	80	960	...	
171	Bankers	1,026	12,312	...	
5	Tindals	50	600	...	
13	Regulating Sluicemen	78	936	...	
1	Surveyor	80	960	...	
3	Chainmen to do.	21	252	...	
4	Accountants and Clerks	140	1,680	...	
2	Cash Peons	14	168	...	
	Contingencies (Stationery)	50	600	...	
	Total ...	3,418	41,016	41,016	43,600
	Grand Total ...	6,623	79,476	79,476	87,200

Budget Estimate of Area of Land required in 1876-77.

Names of Work for which Land is required.	AREA OF LAND UNDER CLASS			
	A.	B.	C.	D.
	ACRES.	ACRES.	ACRES.	ACRES.
<i>Main Canal.</i>				
Upper Division	25	...	...	...
Lower do.	48	...	...	1250
<i>Distribution.</i>				
Upper Division	400	...	...	...
Lower do.	186	...	...	...
Total ...	659	...	...	1250

Proceedings of the Madras Government, Public Works Department,
18th December 1875.

Budget Estimate of Irrigation for the year 1876-77.

Position.					Areas com- manded.	Areas supplied in 1875-76.	Areas to be sup- plied in 1876-77.
Upper Division.					ACRES.	ACRES.	ACRES.
1st Section	...	...	...	...	1,935	755	1,160
2nd do.	...	...	...	...	1,080	510	900
3rd do.	...	...	...	...	3,726	253	1,000
4th do.	...	...	...	...	26,906	1,440	3,000
5th do.	...	...	...	...	10,332	1,081	2,000
6th do.	...	...	...	...	58,951	1,339	3,000
Lower Division.							
7th Section	...	...	...	...	28,800	445	500
8th do.	...	...	...	...	89,600	3,800	4,750
9th do.	...	...	...	...	13,600	4,492	5,615
10th do.	...	...	...	...	5,600	2,600	3,250
Total					2,40,530	16,716	25,175

KURNOOL,
27th September 1875.

(Signed) A. J. DODSON,
Manager and Acting Chief Engineer.

(Signed) C. DAWSON,
for Acting Chief Accountant, &c.

Nos. 302 & 303. ORDER THEREON, 18th December 1875, No. 3,549.

IRRIGATION, No. 17.
Account.

With the foregoing letter the Chief Engineer for Irrigation submits the Regular Estimate of the Madras Irrigation and Canal Company for the year 1875-76 and the Budget Estimate for 1876-77.

2. The estimate of State expenditure is as follows : —

	RS.
Establishment	6,508
Compensation for land	4,000
Excess of working expenses over gross receipts	80,598
Total	91,106

The charges on account of establishment are the same as for the current year. The provision for land compensation is Rupees 500 less than for the current year.

3. The area of irrigation and the revenue of the year 1874-75 are not known, but there appears to be no probability of an advance in the revenue, and it is doubtful whether in 1875 the extension of area will compensate for the reduction of the rates charged for irrigation. Under these circumstances, the Chief Engineer for Irrigation has considered it necessary to reduce the estimate of area for 1876-77 from 25,175 to 20,000 acres, and he has put down the revenue at 75,000 Rupees. There are confessedly no reliable data, but if the estimate be fulfilled the deficit for the year will be Rupees 80,598.

Proceedings of the Madras Government, Public Works Department,
18th December 1875.

4. The estimate of expenditure on Capital Account is provisionally approved; and the Chief Engineer and Manager will be requested to show in due course the balance which may be available on the 1st April next, and the works to be carried out therefrom.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

No. 304. (DOCKET No. 3,550, dated 18th December 1875.)

COPY of the above forwarded to the Government of India.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

Exd. J. W. Lewis
Spare Copies

APPENDIX TO G. O., No. 3,549, DATED 18TH DECEMBER 1875.

DETAILED ESTIMATE OF STATE EXPENDITURE ON ACCOUNT OF THE OPERATIONS OF THE MADRAS IRRIGATION AND CANAL COMPANY FOR THE YEAR 1876-77.

Abstract.						RS.
I.—Establishment (controlling)	...	...	...	...	...	6,508
II.—Purchase of land	...	...	...	...	...	4,000
III.—Excess of cost of maintenance, &c, over gross revenue receipts...	...	...	...	...	...	80,598
Total ...						91,106

I.—Controlling Establishment.

NUMBER.		Particulars.	Salary of Office.	ESTIMATE OF 1876-77.			Budget estimate of 1875-76, charges per annum.	Regular estimate of 1875-76.
1875-76.	1876-77.			Per mensem.	Per annum.	Total.		
		Deputation allowance to Head Clerk, office of Chief Engineer for Irrigation ...	RS.	RS.	RS.	RS.	RS.	RS.
1	1	Head Clerk ...	50	50	600			
1	1	Accountant ...	42	42	504			
1	1	Recordkeeper ...	50	50	600			
1	1	Draughtsman and Estimator ...	40	40	480			
1	1	Peon ...	8	8	96	4,608	4,608	4,600
1	1	Do. ...	7	7	84			
		<i>For the Government Examiner.</i>						
1	1	Accountant... ..	130	130	1,560			
1	1	Peon	7	7	84			
						4,608	4,608	4,600
		Travelling allowance and batta for office establishment ...	...	...	...	700	700	700
		Office expenses and contingencies ...	...	...	...	1,200	1,200	1,200
		Total of Controlling Establishment	...	...	...	6,508	6,508	6,500

II.—Purchase of Land.

Number of Item.	Particulars.	Area in Acres.	Amount of Estimate.	Computed payment to 31st March 1876.	Estimate for 1875-76.	Regular Estimate for 1875-76.	Estimate for 1876-77.
	<i>Kurnool.</i>			RS.	RS.	RS.	RS.
...	Main Canal	}	Not estimated for; the land registers and bills are sanctioned by Government from time to time prior to the transfer of the land.	73,252	3,000	888	3,000
...	Distribution						
...	Buildings						
	Total	...		73,252	3,000	888	3,000
	<i>Cuddapah.</i>						
...	Main Canal	}	Not estimated for; the land registers and bills are sanctioned by Government from time to time prior to the transfer of the land.	19,696	1,500	500	1,000
...	Distribution						
...	Buildings						
	Total	...		19,696	1,500	500	1,000
	Grand Total for Kurnool and Cuddapah	...		92,948	4,500	1,388	4,000

APPENDIX C.

Estimated expenditure from Guaranteed and Loan Capital of the Madras Irrigation and Canal Company for 1876-77.

Items.	Budget Esti- mate for 1876-77.	Budget Esti- mate for 1875-76.	Regular Esti- mate for 1875-76.
	RS.	RS.	RS.
Main Canal	28,950	39,680	12,061
Distribution	3,000	3,860	1,850
Buildings	900	2,000	700
Establishment	10,950	14,780	7,209
Electric Telegraph	...	100	...
Alterations of Calingulala	...	...	7,000
Total ...	43,800	59,820	28,820

Revenue Account.

	GROSS EARNINGS.			WORKING EXPENSES.			BALANCE.			PERCENTAGE OF WORKING EXPENSES ON REVENUE.		
	1875-76.			1875-76.			1875-76.			1875-76.		
	1876-77.	Budget Esti- mate.	Regu- lar Esti- mate.	1876-77.	Budget Esti- mate.	Regu- lar Esti- mate.	1876-77.	Budget Esti- mate.	Regu- lar Esti- mate.	1876-77.	Budget Esti- mate.	Regu- lar Esti- mate.
Main Canal from Soonkasala to the Pennair...	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	...	...	...
	75,000	95,000	63,714	1,55,598	2,60,578	1,70,317	80,598	1,05,578	1,16,603	207.5	211.1	317.0

III.—Regular Estimate for 1875-76.

Statement of Revenue expenditure in comparison with Revenue receipts for two years from 1st April 1875 to 31st March 1877.

No. of Item.	Particulars.	Amount.	Total.	No. of Item.	Particulars.	Amount.	Total.
1	Receipts. Collections from 1st January to 31st March 1875, as per Accountant- General's statement	RS. A. P.	RS. A. P.	4	Expenditure. Balance against Revenue on 1st January 1875, as per Revenue Ac- count for half-year ended 31st December 1874	RS. A. P.	RS. A. P.
2	Estimated revenue } receipts for 1875-76, } as per Collector's } returns. } Cuddapah } Estimated balance against Revenue } on 31st March 1876	8,458 15 9 25,739 3 11 27,974 8 5 4,11,661 4 8	...	5	Average expenditure from 1st Janu- ary to 31st March 1875	2,66,925 11 9 36,591 0 0	...
3	Total ...	...	4,73,834 0 9	6	Computed working expenses for 1875-76, as per Agent's statement	1,70,317 5 0	...
					Total ...	...	4,73,834 0 9

Budget Estimate for 1876-77.

Estimated earnings in 1876-77 ...	RS. A. P.	RS. A. P.
Balance against Revenue on 31st March 1876	75,000 0 0	4,11,661 0 0
Balance against Revenue on 31st March 1877	4,92,259 0 0	1,55,598 0 0
Total ...	...	5,67,259 0 0

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

13
with a reference to the ...

No. 165.

A.

Statement showing the amounts on account of the Revenue of the Madras Irrigation and Canal Company collected up to 30th September 1875, and the expected receipts up to 31st March 1876.

Amount collected from 1st April to 30th September 1875.—Rupees 12,739-3-11. Probable amount that can be realized from 1st October to 31st March 1876.—Rupees 13,000.

KURNOOL,
16th October 1875.

(Signed) J. HOPE,
Acting Collector.

To the Chief Engineer for Irrigation, Fort St. George.

B.

Statement showing the probable amount of expenditure for purchase money of land of the Irrigation and Canal Company during the year 1876-77.

Description of charges.—Purchase money of land. Budget allotment for 1875-76.—Rs. 1,500. Amount expended up to 30th September 1875.—Nil. Anticipated expenditure from 1st October 1875 to 31st March 1876.—Rupees 500. Remainder.—Rupees 1,000.* Probable expenditure for 1876-77.—Rupees 1,000.

MADANAPALLY,
15th October 1875.
11th October 1875, No. 71.

(Signed) A. KRISHNA ROW,
Acting Deputy Collector.

CUDDAPAH,
21st October 1875.

(Signed) M. RAMASAWMI,
Deputy Collector, for Collector.

To the Chief Engineer for Irrigation, Fort St. George, with reference to his letter, dated 11th October 1875, No. 71.

* This sum seems likely to remain unexpended, and may accordingly be transferred elsewhere and utilized with reference to letter, No. 10, dated 29th April 1874, Irrigation Chief Engineer.

No. 164.

B.

Statement showing the probable amount of expenditure for purchase money of land on account of operations of the Madras Irrigation and Canal Company during the year 1875-76.

Description of charge.—Purchase money of land. Budget allotment for 1875-76.—Rs. 3,000. Amount expended up to 30th September 1875.—Rupees 111-10-8. Anticipated expenditure from 1st October to 31st March 1876.—Rupees 888. Remainder.—Rupees 2,000. Probable expenditure for 1876-77.—Rupees 3,000.

KURNOOL,
16th October 1875.

(Signed) J. HOPE,
Acting Collector.

To the Chief Engineer for Irrigation, Fort St. George.

No. 4,384.

A.

Statement showing the amounts on account of the Revenue of the Madras Irrigation and Canal Company collected up to 30th September 1875, and the expected receipts up to 31st March 1876 and during the Official year 1876-77.

Amount collected from 1st April to 30th September 1875.	Probable amount that can be realized from 1st October 1875 to 31st March 1876.	Probable amount that can be realized during 1876-77.	Remarks.
RS. A. P. *7,974 8 5	RS. A. P. 20,000 0 0	RS. A. P. 20,000 0 0	RS. A. P. *7,942 13 9 Canal revenue. 31 10 8 Interest. 7,974 8 5

MADANAPALLY,
15th October 1875.

(Signed) A. KRISHNA ROW,
Acting Deputy Collector.

21st October 1875.

(Signed) M. RAMASAWMI,
Deputy Collector, for Collector.

To the Chief Engineer for Irrigation, Fort St. George, with reference to his letter, dated 11th October 1875, No. 71.

Statement showing the probable amount of expenditure for purchase money of land of the Egyptian & Canal Company during the year 1876-77.

Description of Charges.	Budgeted - allowment for 1876/77.	Amount expended up to 30-Sept 1876.	Anticipated expenditure from 1-1 October 76 to 31-12-76.	Reserves.	Probable Expenditure for 1876/77.	
Purchase money of land -	1500		500	1000	1000	
+ This sum will be required to remain unexpended and may accordingly be transferred elsewhere with reference to the 10 of 29.					April 74 Egyptian Chief Engineer.	
Additional Depu by Collector Office 15 October 76.	Mascara 76.			Mascara 76.	Mascara 76.	
		Completed for the 21 October 1876.	Mascara 76.	Mascara 76.	Mascara 76.	Mascara 76.

Statement showing the amounts in account of the Revenue
of Madras Irrigation and Canal Company collected up to 30 Sept^r 1896
and the expected receipts up to 31 March 1896. —

Amount Collected Probable amount.

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No. 7120
The Collector

Capitulum

Chadwick

Date. 15. } October 195-

Wm. B. Brown

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Levi's Company?

1880-1881

Q.O. No 3217. 12. 11.

Earnest L. No 165-
 Collector of the Chief Engineer for and
 16th October 1885 Joint Secretary to Govt.
 P. & D.
 Fort St. George

L. Howe
Sg. collector.

Fort St. George.

Camp at Kothacottah
8th November 1875-76

No 44. A.

From,
The Chief Engineer for Irrigation
To,
The Secretary to Government P.W.D.
Sir,

Enclosures. 13.

I have the honour to submit the
Budget Estimates of expenditure from
State Funds and from Loan Capital of
the Madras Irrigation and Canal Com-
pany for the year 1876-77.-

2 The estimated outlay on the
establishment of control and for com-
-pensation for land to be taken up -
amounts to Rupees 10,508 as follows.

Establishment	Rs. - 6,508
Compensation for land	" - 4,000
Total outlay	<u>10,508</u>

3 The outlay from Loan Capital
is estimated by the Chief Engineer and
Manager

Ms. B. 4. 4. 1. 8-1875-

W. C. P. 1875-76
No 344
The Chief Engineer
for Irrigation
P.W.D.
Madras

Received by the
Chief Engineer
for Irrigation
P.W.D.
Madras
11/11/75

Received by the
Secretary to
Government
P.W.D.
Madras
11/11/75

Received by the
Chief Engineer
for Irrigation
P.W.D.
Madras
11/11/75

Received by the
Chief Engineer
for Irrigation
P.W.D.
Madras
11/11/75

Ms. B. 4. 4. 1. 8-1875-
No 3217. 12. 11. 75

Manager as follows.

	Ruppes.
Agency and Engineering Establishment	10,950
General works on main canal	28,950
Distribution channels	3,000
Buildings	900
Total	43,800

From Proceedings Madras Government of the 1st October 1875 No. 2837, it will be seen that the balance of Capital available was in September last reported to be Rupees 39,533, and this will be reduced to some extent before the close of the current year. On the other hand it was understood that the Capital account would receive some credit by the transfer of stores for use on Revenue account. The above provision for Capital expenditure may, it is thought, stand on condition that the actual balance on the 1st April next is reported as soon as possible after that date, and that a list of works

227
works to be carried out from the balance is at the same time submitted for approval.

4 The estimate of Revenue expenditure amounts to Rupees 154,998 against Rupees 200,578 in 1875-76, and is made up of the following items:-

Share of General Management	Ruppes. 40,572
Conservancy staff Upper Division	38,460
do. Lower	41,016
Repairs to main canal	25,800
Distribution works	8,000
Buildings	1,500
Telegraph	250
Total	Ruppes 155,598

It appears to be probable that there will be a considerable saving under General Management, the salary of the Chief Engineer and Manager having been provided for at the rate allowed to the permanent incumbent who has gone to England and whose return

Since this was written Mr. Hatham has returned & has resumed charge of the engineering.

Manager as follows.

	Ruppes.
Agency and Engineering Establishment	10,950
General works on main canal	28,950
Distribution channels	3,000
Buildings	900
Total	43,800

From Proceedings Madras Government of the 1st October 1875 No. 2837, it will be seen that the balance of Capital available was in September last reported to be Rupees 39,533, and this will be reduced to some extent before the close of the current year. On the other hand it was understood that the Capital account would receive some credit by the transfer of stores for use on Revenue account. The above provision for Capital expenditure may, it is thought, stand on condition that the actual balance on the 1st April next is reported as soon as possible after that date, and that a list of works

227
works to be carried out from the balance is at the same time submitted for approval.

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Conservancy staff Upper Division	38,460
do. Lower	41,016
Repairs to main canal	25,800
Distribution works	8,000
Buildings	1,500
Telegraph	250
Total	Ruppes 155,598

It appears to be probable that there will be a considerable saving under General Management, the salary of the Chief Engineer and Manager having been provided for at the rate allowed to the permanent incumbent who has gone to England and whose return

Since this was written Mr. Hatham has returned thus resumed charge of the engineering.

is doubtful. The present Acting Chief Engineer draws Rupees 1,300 a month instead of Rupees 2,500 and the maximum on a vacancy occurring has been fixed at Rupees 1,500.

5. The framing of an estimate of Revenue receipts has always presented considerable difficulties. The introduction of new rules offering irrigation on more favourable terms has as yet had no marked effect upon the extent of the irrigation, and the increase of area in 1874-75. will not, so far as is known, compensate for the reduction in rates.

The Chief Engineer and Manager estimates the acreage in 1875-76 at 16,716, that of 1873-74 being 15,299. For 1876-77 the area is shown as 25,175. If 20,000 acres and 75,000 Rupees be taken for 1876-77 the estimate may be reached, but it is hardly likely to be exceeded. The annual Revenue statement for the Furrnool District

Appendix E

for 1874-75. not having yet been received from the Collector, the information for that year is incomplete. In Cuddapah the irrigation of that and the preceding year was as follows. -

	1873-74	1874-75
Area - acres —————	6,381	6,115
Revenue Rupees —————	25,006	18,035

6. The only alteration made in the estimates as received from the Madras Irrigation and Canal Company's Chief Engineer ~~are~~ the omission of a provision of Rupees 500 for bankers uniforms, with reference to G. O. No. 2974-18⁵ October 1875, and a correction of a clerical error in the estimate of expenditure on Revenue account.

I have the honor to be
Sir,

Your most obed^t. servant,

Wendell Phillips : Little C. & P.
Chief Engineer for Navigation

1875-11-12-75

P. W. 1875 Delph
No 44 at No: 7902
of
The Chief Engineer for
Argentina
To the Secretary to Government
- West PMB.

Dated 8th November
Signed 8th December 1875
Recd 10th
Enclosure - 13, 1

Delivered with re.
= marks the Budget
Statement of the Yr. 1876
= for 1876-77 -

9018th December 75
BAC 301

Revenue statement for

Address Migration and Canal Company

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Budget Estimate of the expenditure on the Revenue Account for the year 1876-77

Items	Budget for 1875-76	Actual Expenditure from 1 st April 1875 to 31 st August 1875	Anticipated Expenditure from 1 st Sept ^r 1875 to 31 st March 1876	Total of Columns 3 & 4	Probable expenditure for 1876-77	Remarks
Proportion or Share of Charges for General Management including Contingencies	45,128	11,938 4 9	20,908 6 4	35,846 11	44,072	
Main Supply Conservancy Staff						
Upper Division, including Officer	43,600	15,396 12 6	23,345	38,741 12 6	38,460	
Contingencies (Stationary)	43,600	13,078 10 2	22,000	35,078 10 2	41,016	
Lower — do — do — Total	87,200	28,475 6 8	45,345	73,820 6 8	79,476	
Main Canal Repairs						
Upper Division, including Conservancy work Contingencies	20,000	22,062 3 4	4,284	26,346 3 4	18,000	
Lower — do — do — Total	20,000	18,437 15 11	4,400	22,837 15 11	7,800	
4,000	4,000	40,500 3 3	8,684	49,184 3 3	25,800	
Distribution Repairs						
Upper Division	10,000	1053 6 6	3,846 9 6	4,900	5,000	
Lower — do — do — Total	15,000	1592 6 10	1950 9 2	3,543	3,000	
2,500	2,500	2,645 13 4	5797 2 8	8,443	8,000	
Building Repairs						
Upper Division	2,500	266 3 5	533 12 7	800	1,000	
Lower — do — do — Total	2,500	455 8 1	1650 7 11	2,106	500	
150	150	721 11 6	2,184 4 6	2,906	1,500	
Repairing Telegraph Line Storage — do — do — Total	150	4	113	117	250	
Grand Total 200,578	200,578	87,285 7 6	83,031 13 6	170,317 5	155,898	

Harrool
24th September 1875.

C. Dawson
for Act^y Chief Account^t &c.

M. Dobson
Manager & Act^y Chief Engineer

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Madras Br. and S. Canal Co.³³

Budget Estimate of Establishments of the Chief Engineers & Managers' Office for 1876-77.

Numbers	Particulars	Rate of Salary	Estimate for 1876-77		Estimate for 1875-76	Change per Annum
			Rs.	P.		
<u>General Management</u>						
1	Chief Engineer & Manager	2500	2500	30000	30000	
1	Chief Accountant	300	300	3600	9600	
15	Clerks from Rs 12 to Rs 130		827	9924	10080	
3	Draughtsman		40	480	888	
20	Moochee & other Servants		176½	2118	1680	
<u>Travelling Allowances</u>						
	Chief Engineer & Manager		200	2400	2400	
	Contingencies		29½	3000	5500	
	Other allowances		-	-	360	
<u>Total</u>			4535½	51522	58028	60508

NB. Capital. Rupees = 10950
 Revenue = 40572
57522

Approved
 27 September
 1875

C. Sanderson
 For Actg Chief Accountant

Manager & Actg Ch. Engineer

J. D. D. D. D.

Budget Estimate of Establishment of the
Chief Engineer's and Manager's Offices for 1876-77.
Particulars of the Charges to be met from
the sum of Rupees 3,500 Entered under the
head "Contingencies" and included in the
above noted Estimate.

	R.	A.	P.
Postage and Telegrams	300	.	.
Stationery for Chief Engineer's and Manager's Offices	550	.	.
Oil, Matches wicks for Office use	60	.	.
Medical Stores, and Expenses	550	.	.
Postal bags and repairs to do	50	.	.
Delivery Ticket (Postal)	24	.	.
Premium on Treasury bills & letters of Credit	600	.	.
Subscription to District Gazette	18	.	.
Bankers uniform	500	.	.
Revenue Plans and Mounting - Do	350	.	.
House rent and other items not specified	514	8	.
Total Rupees	3,500	.	.
	3,000		

Kurnool } verified
27 September }
1875 }
M. Dobson
Manager & Actg. Ch. Engr.
C. Dawson
for Actg. Chief Accountant &c.

Compd
J. B.

Madras Irrigation & Canal Co. Ltd.

Budget Estimate of the Conservancy Establishment for 1876-77.

Numbers 1875-76	Particulars	Estimate for 1876-77			Estimated for 1875-76
		Per Men-Serv	Per Annum	Total	Charge per annum
		Rs	Rs	Rs	Rs
Upper Division					
2	Engineers	1370	16440		
8	Chain-men	56	672		
4	Overseers	360	4320		
4	Amins	80	960		
141	Bankers	846	10152		
3	Indials	40	480		
8	Regulating Sluice-men	48	576		43600
1	Surveyor	140	1680		
3	Chau. men to do	21	252		
4	Accountants & Clerks	140	1680		
2	Cash Pkono	14	168		
2	Signallers	40	480		
	Contingencies (Stationery)	50	600		
	Total	3205	38460	38460	43600
Lower Division					
2	Engineers	1470	17640		
7	Chain-men	49	588		
14	Overseers	360	4320		
4	Amins	80	960		
171	Bankers	1026	12312		
5	Indials	50	600		43600
13	Regulating Sluice-men	78	936		
1	Surveyor	80	960		
3	Chain-men to do	21	252		
4	Accountants & Clerks	140	1680		
2	Cash Pkono	14	168		
	Contingencies (Stationery)	50	600		
	Total	3418	41016	41016	43600
	Grand Total	6623	79476	79476	87200

Approved
 27th September
 1875.

C. Vernon
 Chief Accountant

J. Gordon
 Manager & Actg. Ch. Eng.

Madras Irrigation and Canal Co. —

Budget Estimate of Irrigation for the Year 1876-77. —

Position	Area Commanded	Area supplied in 1875-76	Area to be supplied in 1876-77
<u>Upper Division</u>	acres	acres	acres
1 st Section	1,935	75	960
2 nd do.	1,080	510	9
3 rd do.	3,726	253	1,500
4 th do.	26,906	1,440	3,000
5 th do.	10,332	1,081	2,000
6 th do.	58,951	1,339	3,000
<u>Lower Division</u>			
7 th Section	28,800	446	500
8 th do.	89,600	3,800	4,750
9 th do.	13,600	4,492	5,615
10 th do.	5,600	2,600	3,250
<u>Total</u>	240,530	16,716	25,175

Remarks.

Kumsoob
24th September
1875
C Dawson
Asst. Secy. Chief Accountant &c

M Dawson
Manager and Asst. Chief Engineer

Madras Irrigation and Canal Co.

Budget Estimate of Area of land required in 1876-77.

Names of work for which land is required	Area of land under class.				Remarks
	A	B	C	D	
	acres	acres	acres	acres	
Main Canal					
Upper Division	25				
Lower Division	48			12.50	
Distribution					
Upper Division	400				
Lower Division	186				
Total	659			12.50	

Received
 27th September
 1875
 Compt.
[Signature]

C Dawson
 For Act^y Chief Accountant
[Signature]

J. Dodson
 Manager and Act^y Chief Engineer
[Signature]

Detailed Estimate of State Expenditure on account of the operations of the Madras Irrigation and Canal Compy. for the year 1876-77. - Abstract 53. 6

I. Establishment (controlling) ————— Rupees - 6,508
 II. Purchase of land. ————— " - 4,000
 III. Excess of cost of maintenance &c. over gross Revenue receipts - 80,598
Total Rupees. 91,106

I Controlling Establishment.

Number 1875-76 1876-77	Particulars.	Salary of Office.	Estimate of 1876-77			Budget esti- mate of 1875-76 - Charges per Annum.	Regular Estimate of 1875-76.
			Per Mensem	Per Annum	Total.		
	Deputation allowance to Head Clerk, Office of Chief Engineer for Irrigation	50	50	600	4608	4608	4600
1	Head Clerk	50	50	600			
1	Accountant	42	42	504			
1	Recordkeeper	50	50	600			
1	Draughtsman and Estimator	40	40	480			
1	Peon	8	8	96			
1	do.	7	7	84			
	<u>For the Government Examiner</u>						
1	Accountant	130	130	1560			
1	Peon	7	7	84	4608	4608	4600
	Travelling allowance and batta for office establishment	"	"	"	700	700	700
	Office expenses and contingencies	"	"	"	1200	1200	1200
	<u>Total of Controlling Establishment</u>				6508	6508	6500

55

Not estimated for, the land.
registers and Bills are sanctioned
by Government from time to time
prior to the transfer of the land.

Appendix C.

Main Canal from
Sontkasale to the
Ponnai

Revenue Account		Working Expenses		Balances		Per. centage of working expenses on Revenue.	
Gross earnings		1875-76		1875-76		1875-76.	
1876-77	Budget Regular Estimate estimate	1875-77	Budget Regular Estimate estimate	1876-77	Budget Regular Estimate estimate		
75000	95000 53714	155598	200548 170317	80598	105578 116603	207.5	211.1 317.0

Main Canal from
San Francisco to the

iii Regular Estimate for 1875-76

to 31st March 1877. -

Receipts.

—moral's' Statment.

for 1895-96 as per Collectors'

Estimated Balance against Revenue
on 31st March 1876

2. Total Payers — 1,738.4 • 9.

•

Estimated earnings in 1876-77-

March 1877.

Total Refusers	567,259
----------------	---------

Count

No 3549 P. W. D. *Ir-12*
Acct
 Proceedings of the Madras Govt. 61.
 Under date the 18 Decr 75.
 Read the following:-

From the Chief Eng. for
 Irrigation - { P. E. No 44 A of 18 Decr 75 }
which is submitted

Enclosure to letter from Chief
 Eng. for Irrigation No 44 A of
 18 Decr 75.

With the foregoing
 letter the Chief Engineer for
 Irrigation submits the Regular
 Estimate of the Madras Irriga-
 tion and Canal Company
 for the year 1875-76 and
 the Budget Estimate for
 1876-77.

2 The estimate of
 state expenditure is as follows.

Establishment	6508
Compensation for land	4000
Gross of working expenses	80598
over gross receipts	
Total	91106

Mr 9902/75
13/75

CC-15/12/75-11 3524

The charges on account of establishment are the same as for the current years.

The provision for land compensation is Rupees 500 less than for the current year.

3 The area of irrigation and the revenue of the year 1874-75 are not known, but there appears to be no probability of an advance in the revenue, and it is doubtful whether in 1875 the extension of area will com-

pensate for the reduction of the rates charged for irrigation. Under these circumstances the Chief Engineer for Irrigation has considered it necessary to reduce the estimate of area for 1876-77 from 25,775 to 20,000 acres, and he has put down the revenue at 75,000 Rupees. There

are confessedly no reliable data, but if the estimate be fulfilled the deficit for the year will be Rupees 80,598.

4 The estimate of expenditure on Capital account is provisionally approved, and the Chief Engineer and Manager will be requested to show in due course the balance which may be available on the 1st April next, and the works to be carried out therefrom.

Wm. 9/11/75
C.M.W.

5 sc of the Appendix to
Ch Engr India 20-1-76

3 sc to the Accts Engr - 21-1-76

20 sc Rev Dept - " - " - "

3 sc Ch Engr & Manager - 21-1-76

6 sc to 24th Dy Accts - 21-1-76

To the Chief Engineer & Manager
in India 3

Accountant General 3

Chief Engr for Irrigation 5

Rev. Dept. - 21

25 copies of the Appendix

3550 sent to Gov India

20-1-76

NE No 3550 of 18 Dec 75

Packet No 3550 of 18 Dec 75

Copy of the above
forwarded to the Govt
of India.

30 sc Engr - 30-12-75

1902
 Electrical &
 Mechanical Works
 100 West 1st St. N. W.
 Wash. D. C.
 11/19/71

607 118751 Address
 IC WORKS.

Ch: Rugs & Manager
 M J & Co.

Date

Issued

Re L.

Ed

G. O. 18 Dec 1875 No. 349
 3530

No. 301-364

Produce Estimate of the
St. C. Co. for 1876-77.

Passing order on the
 submitted by the Ch: Eng
 for Irrigation-