

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3448	Press	<i>Original</i>
B.P. No.		Mis.	
Dated	16. 12.	195	1876

Not to be folded or roughly handled

No. 404. Read the following letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 2nd December 1876, No. 588 :—

I HAVE the honor to forward herewith the Regular Estimate for 1876-77 and the Budget Estimate for 1877-78 of the Madras Railway Company, prepared in the revised form embodied in the Proceedings of Government, No. 2,372, dated 6th September 1876, with a Note on the same.

No. 405. ORDER THEREON, 16th December 1876, No. 3,447.

RAILWAY, No. 44.

WITH this letter the Consulting Engineer submits the Regular and Budget Estimates of the Madras Railway for 1877-78.

CAPITAL.

2. The detailed modifications suggested by the Consulting Engineer for Railways in this portion of the estimates, whereby the Capital Expenditure has been reduced, are accepted. The figure will accordingly stand as under :—

				Actuals for 1875-76.	Budget Estimate for 1876-77.	Regular Estimate for 1876-77.	Budget Estimate for 1877-78.
				RS.	RS.	RS.	RS.
Outlay	...	...	...	11,98,961	14,00,000	12,50,000	13,50,000
Refunds	...	...	...	19,59,694	19,00,000	19,00,000	19,00,000
Net Receipts				7,60,733	5,00,000	6,50,000	5,50,000

3. As regards the provision of Rupees 1,00,000 for compensation to Contractors owing to stoppage of protective works to bridges, His Grace the Governor in Council desires to be informed as to the details of such claims as may be preferred, the sum set apart for the adjustment of which appears extravagantly high.

REVENUE.

4. The impetus which the prevailing scarcity has given to the grain traffic necessitates considerable modification of the figures put forward by the Railway Authorities as the regular estimate of receipts. There seems no reason to expect that the receipts will fall short of Rupees 76,00,000. As regards the Budget Estimate of next year, much hesitation must necessarily exist in forecasting the probable amount of traffic owing to the general disturbance of trade. It may be safely assumed that a reaction will follow the present abnormal activity, and allowance for this must be made. The sum set down therefore, viz., Rupees 69,72,000, as the total receipts for next year, may be fairly taken to represent the value of the traffic for that period. The working expenses are high; but on the recommendation of the Consulting Engi-

*Proceedings of the Madras Government, Public Works Department,
16th December 1876. No. 3,448.*

near the figures are allowed to stand. The following statement shows the Revenue transactions in one view:—

	Actuals for 1875-76.	Budget Estimate for 1876-77.	Regular Estimate for 1876-77.	Budget Estimate for 1877-78.
	RS.	RS.	RS.	RS.
Receipts	64,48,325	66,00,000	76,00,000	69,72,000
Withdrawals	45,43,625	42,00,000	48,00,000	43,34,378
Net Receipts ...	19,04,700	24,00,000	28,00,000	21,37,622

5. The estimates will be forwarded to the Government of India.

(True Extract.)

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

No. 406.

(DOCKET, No. 3,448, dated 16th December 1876.)

Copy of the above forwarded to the Government of India.

(True Extract.)

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

BUDGET ESTIMATE FOR 1877-78.

FOR

MADRAS RAILWAY.

BUDGET ESTIMATE FOR 1877-78

FOR

MADRAS RAILWAY.

Abstract of Estimated Cash Expenditure in India on the Madras Railway for the official year 1877-78.

CAPITAL ACCOUNT.

Particulars.	Actuals for 1875-76.	Budget Estimate for 1876-77.	Regular Estimate for 1876-77.	Budget Estimate for 1877-78.
RS.	RS.	RS.	RS.	RS.
CAPITAL OUTLAY.				
<i>Engineering Department.</i>				
Sanctioned works as per Schedule A ...	1,17,774	2,22,368	3,53,123	3,17,845
Works to be sanctioned " B ...	69,612	2,89,286	31,654	2,87,287
Minor Works " C ...	10,972	36,633	46,331	36,349
<i>Locomotive Department.</i>				
Sanctioned works as per Schedule A ...	373	11,406	25,068	...
Works to be sanctioned " B ...	911	7,500	2,500	25,000
Minor Works " C ...	...	258	258	4,000
<i>Carriage and Wagon Department.</i>				
Sanctioned works as per Schedule A ...	4,784	6,783	14,687	2,891
Works to be sanctioned " B ...	13,054	25,863	3,750	25,013
Minor Works " C ...	...	...	...	...
<i>General.</i>				
Establishment chargeable to Capital as per General Estimate of Establishment as per Schedule D ...	50,485	78,711	70,925	88,623
Stores as per Schedule E ...	9,30,996	7,21,187	7,33,250	8,60,100
Expenditure on work done for Revenue ...	...	...	...	...
Do. do. for Foreign Railways. ...	...	...	...	...
Total, Withdrawals on Capital Account...	11,98,961	14,00,000	12,86,546	16,47,108
<i>Receipts to be credited to Capital Account.</i>				
Share Capital paid in India ...	...	...	...	...
Refunds on account of stores sold to Revenue and others ...	19,59,694	19,00,000	19,00,000	19,00,000
Refunds of receipts from Revenue for work done ...	...	...	...	...
Other refunds (large and abnormal transactions to be specified) ...	...	...	...	...
Total Payments into Treasury on Capital Account ...	19,59,694	19,00,000	19,00,000	19,00,000
Net Cash Demand of the year on Capital Account...	7,00,703	5,00,000	6,13,451	2,52,002

Abstract of Estimated Revenue Receipts and Expenditure of the Madras Railway for the official year 1877-78.

REVENUE ACCOUNT.

Particulars.	Actuals for 1875-76.	Budget Estimate for 1876-77.	Regular Estimate for 1876-77.	Budget Estimate for 1877-78.
RS.	RS.	RS.	RS.	RS.
<i>Receipts as per Schedule F.</i>				
Coaching Traffic...	24,87,591	24,20,000	26,00,000	26,00,000
Goods do. ...	37,29,416	38,80,000	40,00,000	40,00,000
Harbour Works ...	10,113	86,000	85,000	1,50,000
Electric Telegraph earnings ...	27,250	23,500	21,000	22,000
Sundries ...	1,93,955	1,90,500	1,94,000	2,00,000
Total (1) ...	64,48,325	66,00,000	69,00,000	69,72,000
Receipts on account of traffic appertaining to other lines ...	2,74,855	...	3,80,000	4,00,000
Receipts from Capital Account other than traffic earnings ...	...	...	...	...
Receipts from foreign lines other than traffic earnings ...	...	...	...	...
Other abnormal receipts in detail, or as per Schedule attached ...	...	...	...	...
Total payments into Treasury on Revenue Account (2) ...	67,23,180	66,00,000	72,80,000	73,72,000
<i>Expenditure as per Schedule G.</i>				
Maintenance of Way, Works and Stations ...	15,80,359	14,65,000	15,28,000	15,90,000
Locomotive Expenses ...	14,79,095	13,50,000	15,42,417	15,85,651
Carriage and wagon expenses ...	3,94,039	2,50,000	3,74,839	4,14,627
Traffic expenses ...	6,32,151	6,20,000	6,58,600	7,00,600
General charges ...	4,35,065	4,85,000	4,58,500	4,63,500
Special and Miscellaneous expenditure ...	22,916	30,000	70,000	80,000
Total (3) ...	45,43,625	42,00,000	46,32,356	48,34,378
Payments to other lines for their proportion of through traffic, &c. ...	2,74,855	...	3,80,000	4,00,000
Payments to Capital Account other than for stores, &c., included in the working expenses in Schedule G. ...	...	...	...	...
Other abnormal payments in detail, or as per Schedule attached ...	...	...	...	...
Total withdrawals from Treasury on Revenue Account (4) ...	48,18,480	42,00,000	50,12,356	52,34,378
Net Earnings (1) (3) ...	19,04,700	24,00,000	22,67,644	21,37,622
Net Receipts (2) (4) ...	19,04,700	24,00,000	22,67,644	21,37,622
Surplus Profits ...	...	...	...	...

SCHEDULE

Budget Estimate of unsanctioned Works of

Number of Items.	SANCTIONS.		Particulars.	AMOUNT OF ESTIMATE.		
	Number.	Date.		Cash Outlay in India.	Value of Stores.	Total Expenditure.
ENGINEER'S DEPARTMENT.						
Earthwork.						
1	G.O., No. 1,136.	22nd April 1875.	} Securing loose boulders of Tiger Rock, 145th mile, Bangalore Branch.	8,053	294	8,347
2	C.E., No. 881..	18th Aug. 1876.		Protective works in the cutting south of the Tiger Rock, Bangalore Branch.	16,323	..
	C.E., No. 67 ..	20th Jan. " ..				
Bridgework.						
3	C.E., No. 893..	26th Sept. 1873.	Protective works for Poiny bridge ..	1,82,501	3,430	1,85,931
4	Do. ..	Do. ..	Do. Goriatum " ..	60,276	2,040	62,316
5	Do. ..	Do. ..	Do. Palar " ..	60,493	968	61,461
6	C.E., No. 489 ..	26th May 1874.	} Two 30 feet openings with wrought iron girders at 105th mile, 11th telegraph post, South-west Line.	17,333	7,351	24,684
	C.E., No. 827 ..	4th Sept. " ..				
7	C.E., No. 577 ..	1st June 1876.	Two 30 feet openings with wrought iron girders at 203rd mile, 14th telegraph post, Bangalore Branch.	10,512	5,502	16,014
	C.E., No. 435 ..	25th April " ..				
8	C.E., No. 841 ..	15th Sept. 1873.	Protective works for Naggery bridge ..	43,415	1,023	44,438
9	C.E., No. 1,005.	22nd " 1876.	Three 30 feet openings in addition to the single 30 feet arch at 116th mile, 5th telegraph post, North-west Line.	8,209	8,182	16,391
10	C.E., No. 1,009.	23rd Sept. " ..	Three 30 feet openings with wrought iron girders in lieu of a single 6 feet arch at 131st mile, 3rd telegraph post, North-west Line.	1,861	8,182	10,043
11	C.E., No. 719 ..	29th June 1875.	Huggry Bridge	2,30,057	4,71,117	7,01,174
Stations and Buildings.						
12	C.E., No. 982.	14th Oct. 1874	Piping for water-supply in case of fire at Royapooram.	875	8,475	9,350
13	C.E., No. 721.	7th July 1876	Piping for water-supply in case of fire at Salt Cota Station.	336	7,885	8,221
14	C.E., No. 835.	7th Aug. 1876	Smithy at Perambore Workshops ..	26,606	75,551	1,02,157
15	Do. ..	" " " ..	Iron and Brass Foundry at do. ..	13,659	19,100	32,759
16	Do. ..	" " " ..	Making ground for Smithy and Foundry at Perambore Workshops.	6,255	4,368	10,623
17	C.E., No. 856.	" " " ..	Watering arrangements at Perambore Workshops.	15,863	48,238	64,101
18	C.E., No. 1,002.	16th Sept. 1875.	Extending the north and south passenger platforms and constructing first-class latrine for Natives at Perambore.	12,035	357	12,392
19	C.E., No. 837.	30th July " ..	Shed over the transshipping platform at Jollarett Station.	3,112	10,709	13,821
20	C.E., No. 379.	10th April 1876.	Over-bridge and roofing Native Urinals at Jollarett Station.	4,674	7,905	12,579
21	C.E., No. 957.	9th Sept. " ..	Goods godown, platform, and sidings, &c., at Sunkerydroog Station.	4,517	4,301	8,818
22	C.E., No. 746.	14th July " ..	Two Engine Drivers' Bungalows at Tripetty Station.	3,638	106	3,744
23	C.E., No. 520.	8th May 1875.	Guards' Barracks at Cuddapah Station.	5,585	122	5,707
24	C.E., No. 302.	24th March 1876.	Sidings, Engine shed, and Engine turntable at Adoni Station.	4,963	3,554	8,517
25	C.E., No. 387.	11th April 1876.	Shed over the open platform of goods shed at Adoni Station.	2,670	3,115	5,785
Ballast and Permanent-way.						
26	C.E., No. 886.	13th Aug. 1875.	Catch siding at Mullapooram Station ..	3,205	3,633	6,838
27	C.E., No. 306.	24th March 1876.	Additional siding at Goondacul do. ..	1,506	5,344	6,850
28	G.O., No. 17.	4th Jan. 1876.	Laying of new permanent-way over girder bridges, South-west Line.	7,969	2,16,116	2,24,085
29	C.E., No. 49.	15th " ..	Do. do. North-west Line.	13,739	3,70,142	3,83,881
	C.E., No. 331.	31st March 1876.				
Electric Telegraph.						
30	C.E., No. 954.	8th Oct. 1874.	Renewing wooden telegraph poles with Siemens iron standards between Vaniembady and Puttamby.	..	72,298	72,298
31	G.O., No. 2,162.	6th Nov. 1875.	New Cheyair Bridge (capital proportion).	43,462	99,675	1,43,137
	C.E., No. 1,231.	19th Nov. " ..				
Total, Engineers Department ..				8,13,702	14,69,083	22,82,785

A.

the Madras Railway for the official year 1877-78.

ACTUAL EXPENDITURE UP TO CLOSE OF OFFICIAL YEAR 1875-76.			PROBABLE EXPENDITURE DURING 1876-77.			BUDGET ESTIMATE OF EXPENDITURE FOR OFFICIAL YEAR 1877-78.			Estimated expenditure in future years.	Remarks.
Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.		
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
7,763	294	8,057	290	..	290	..	..	..	..	
892	..	892	12,000	..	12,000	3,431	..	3,431	..	
60,015	263	60,278	50,000	..	50,000	1,00,000	..	1,00,000	2,64,818	Revised Estimate.
25,654	929	26,583	50,000	..	50,000	50,000	..	50,000	48,510	Do. 4,75,096
27,702	..	27,702	30,000	..	30,000	50,000	..	50,000	40,994	Do. 1,75,093
14,211	7,351	21,562	3,122	..	3,122	..	..	..	..	Do. 1,48,696
..	..	..	4,512	5,502	10,014	6,000	..	6,000	..	
14,612	85	14,697	20,000	..	20,000	50,000	..	50,000	25,909	Do. 1,10,606
..	..	..	4,209	8,182	12,391	4,000	..	4,000	..	
..	..	..	1,861	8,182	10,043	..	..	..	..	
2,20,970	4,22,292	6,43,262	90,000	60,000	1,50,000	11,701	6,425	18,126	..	Do. 8,11,388
..	2,139	2,139	875	6,336	7,211	..	..	..	..	
17	7,107	7,124	319	778	1,097	..	..	..	..	
22	41	63	20,000	70,000	90,000	6,584	5,510	12,094	..	
148	2	150	10,000	15,000	25,000	3,511	4,098	7,609	..	
..	..	..	5,000	4,000	9,000	1,255	368	1,623	..	
..	..	..	8,000	30,000	38,000	7,863	18,238	26,101	..	
5,109	206	5,315	6,926	151	7,077	..	..	..	..	
..	..	..	2,000	8,000	10,000	1,112	2,709	3,821	..	
..	..	..	..	..	..	4,674	7,905	12,579	..	
..	..	..	4,517	4,301	8,818	..	..	..	..	
..	..	..	3,638	106	3,744	..	..	..	..	
1,380	155	1,535	4,172	..	4,172	..	..	..	..	
..	..	..	4,963	3,554	8,517	..	..	..	..	
..	..	..	2,670	3,115	5,785	..	..	..	..	
1,662	1,148	2,810	1,543	2,485	4,028	..	..	..	..	
..	..	..	1,506	5,344	6,850	..	..	..	..	
..	..	..	4,000	1,50,000	1,54,000	3,969	66,116	70,085	..	
..	..	..	7,000	2,50,000	2,57,000	6,739	1,20,142	1,26,881	..	
..	54,598	54,598	..	17,700	17,700	..	..	..	..	
31,456	68,301	99,757	5,000	15,000	20,000	7,006	16,374	23,380	..	
4,11,613	5,64,911	9,76,524	3,58,123	6,67,736	10,25,859	3,17,845	2,47,885	5,65,730	3,80,231	

SCHEDULE
Budget Estimate of unsanctioned Works of the

Number of Items.	SANCTIONS.		Particulars.	AMOUNT OF ESTIMATE.		
	Number.	Date.		Cash Outlay in India.	Value of Stores.	Total Expenditure.
..	C. E. No. 773 ..	19th July 1876..	<i>Locomotive Department.</i>	RS.	RS.	RS.
..	C. E. No. 928 ..	26th Aug. 1875..	2 Cost of putting in working order two engines purchased from the Calcutta and South Eastern Railway.	15,421	15,618	31,039
..	C. E. No. 786 ..	19th " 1874..	118 Cost of constructing and fitting cow-catchers to 118 engines.	17,110	8,850	25,960
			10 Cost of constructing and fitting cow-catchers to 10 engines.	1,450	750	2,200
			Total, Locomotive Department ..	33,981	25,218	59,199
..	G. O., No. 779..	12th Mar. 1870..	<i>Carriage and Wagon Department.</i>			
..	G. O. No. 3,066 and	29th Sept. 1868	290 Second-class composite and third-class carriages to be fitted with sun shades.	14,640	20,560	35,200
..	G. O. No. 401 ..	8th Feb. 1869	2,890 Wagons to be fitted with axle box keeps (oil).	17,130	37,570	54,700
..	C. E. No. 892 ..	22nd Sept. 1874	2,609 Vehicles to be rendered capable of carrying 9 tons by an additional plate being fitted to each spring.	12,012	42,559	54,571
..	G. O. No. 2,635.	16th do. "	4 Double saloon first-class night carriages.	10,000	19,400	29,400
..	C. E. No. 1,012..	23rd do. 1876..	35 Third-class carriages to be fitted with shutters.	525	875	1,400
..	C. E. No. 238 ..	23rd Feb. 1875..	15 Sets of gratings to be fitted in the second-class carriages for Civil and Military prisoners.	435	390	825
..	C. E. No. 426 ..	14th April 1875.				
			Total, Carriage and Wagon Department ..	54,742	1,21,354	1,76,096
			Total, Schedule A ..	9,02,425	16,15,655	25,18,080

A.
Madras Railway for the official year 1877-78.

ACTUAL EXPENDITURE UP TO CLOSE OF OFFICIAL YEAR 1875-76.			PROBABLE EXPENDITURE DURING 1876-77.			BUDGET ESTIMATE OF EXPENDITURE FOR OFFICIAL YEAR 1877-78.			Estimated Expenditure in future years.	Remarks.
Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.		
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
6,818	9,511	16,329	8,603	6,107	14,710	..	..	..	..	
884	1,441	2,325	16,226	7,409	23,635	..	..	..	..	
1,211	688	1,899	239	62	301	..	..	..	..	
8,913	11,640	20,553	25,068	13,578	38,646	..	..	..	..	
12,241	13,001	25,242	1,201	3,778	4,979	1,198	3,781	4,979	..	
16,282	33,456	49,738	744	2,304	3,048	104	1,810	1,914	..	
7,986	26,433	34,419	2,437	9,385	11,822	1,589	6,741	8,330	..	
..	..	..	10,000	19,400	29,400	..	..	..	..	
344	268	612	181	607	788	..	..	..	..	
311	386	697	124	4	128	..	..	..	..	
37,164	73,544	1,10,708	14,687	35,478	50,165	2,891	12,332	15,223	..	
4,57,690	6,50,095	11,07,785	3,97,878	7,16,792	11,14,670	3,20,736	2,60,217	5,80,953	3,80,231	

SCHEDULE
Budget Estimate of unsanctioned Works of the

Number of Items.	SANCTIONS.		Particulars.	AMOUNT OF ESTIMATE.		
	Number.	Date.		Cash Outlay in India.	Value of Stores.	Total Expenditure.
			ENGINEER'S DEPARTMENT.	RS.	RS.	RS.
			<i>Bridgework.</i>			
1	..	..	Putting on bracing frames to girder bridge at 125th mile, 21st telegraph post, South-west Line.	1,150	8,272	9,422
2	..	..	New Paupugnee bridge	*3,10,000	1,50,000	4,60,000
3	..	..	New Chittravutty bridge	*4,00,000	1,30,000	5,30,000
4	..	..	New Pennair bridge	*2,70,000	92,000	3,62,000
5	..	..	Four 30 feet openings with wrought iron girders in addition to single 15 feet arch at 197th mile, 9th telegraph post, North-west Line.	11,486	10,882	22,368
			<i>Stations and Buildings.</i>			
6	..	..	Loading gauges required for stations on the open line.	9,679	473	10,152
7	..	..	Converting carriage shed into an engine shed at Royapoorum.	10,000	3,200	13,200
8	..	..	Building ash-pits under two lines in passenger shed at Royapoorum.	10,000	600	10,600
9	..	..	Pattern Shop and Engine-house adjoining new Smithy at Perambore.	9,000	19,000	28,000
10	..	..	Two Engine Drivers' Bungalows at Jollapett Station.	5,070	62	5,132
11	..	..	Do. do. at Bangalore Station ..	5,600	..	5,600
12	..	..	Goods Godown and Platform siding at Tanoor Station.	4,556	3,593	*8,149
			<i>Ballast and Permanent-way.</i>			
13	..	..	Sundry new lines of rails for standing vehicles at Perambore.	2,400	14,700	17,100
			Unforeseen requirements	..	..	..
			Total, Engineer's Department ..	10,48,941	4,32,782	14,81,723
			<i>Locomotive Department.</i>			
	..	..	Twenty locomotives with tenders ..	20,000	7,00,000	7,20,000
	..	..	Reserve to meet unforeseen expenditure.	7,500	15,000	22,500
			Total, Locomotive Department ..	27,500	7,15,000	7,42,500
			<i>Carriage and Wagon Department.</i>			
	..	..	Six goods brake-vans, iron	7,200	28,800	36,000
	..	..	Thirty open-sided goods wagons to be converted into covered goods wagons (proportion of expenditure chargeable to Capital).	11,043	18,242	29,285
	..	..	Three second-class sleeping carriages ..	3,870	8,244	12,114
	..	..	Reserve to meet unforeseen expenditure.	6,650	15,848	22,498
			Total, Carriage and Wagon Department ..	28,763	71,134	99,897
			Total, Schedule B ..	11,05,204	12,18,916	23,24,120

B.

Madras Railway for the Official year 1877-78.

ACTUAL EXPENDITURE UP TO CLOSE OF OFFICAL YEAR 1875-76.			PROBABLE EXPENDITURE DURING 1876-77.			BUDGET ESTIMATE OF EXPENDITURE FOR OFFICAL YEAR 1877-78.			Estimated Expenditure in future years.	Remarks.
Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.		
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
..	..	..	..	..	..	1,150	8,272	9,422	..	
..	..	..	..	..	..	50,000	..	50,000	..	* A portion of these estimates will be charged to Revenue.
..	..	..	..	..	..	50,000	..	50,000	..	
..	..	..	6,000	6,000	12,000	50,000	..	50,000	..	
..	..	..	..	..	..	5,486	4,882	10,368	..	
..	..	..	..	..	..	9,679	473	10,152	..	
..	..	..	..	..	..	10,000	3,200	13,200	..	
..	..	..	..	..	..	10,000	600	10,600	..	
..	..	..	..	..	..	9,000	19,000	28,000	..	
..	..	..	2,654	..	2,654	2,416	62	2,478	..	
..	..	..	3,000	3,000	6,000	5,600	..	5,600	..	* Since sanctioned—Vide Consulting Engineer's letter No. 1,083 of 13th October 1876.
..	..	..	..	..	..	1,556	593	2,149	..	
..	..	..	..	..	..	2,400	14,700	17,100	..	
..	..	..	20,000	10,000	30,000	80,000	40,000	1,20,000	..	
..	..	..	31,654	19,000	50,654	2,87,287	91,782	3,79,069	..	
..	..	..	2,500	5,000	7,500	20,000	7,00,000	7,20,000	..	
..	..	..	..	..	..	5,000	10,000	15,000	..	
..	..	..	2,500	5,000	7,500	25,000	7,10,000	7,35,000	..	
..	..	..	..	..	..	7,200	28,800	36,000	..	
..	..	..	..	..	..	11,043	18,242	29,285	..	
..	..	..	3,750	8,671	12,421	3,870	8,244	12,114	..	
..	..	..	..	..	..	2,900	7,177	10,077	..	
..	..	..	3,750	8,671	12,421	25,013	62,463	87,476	..	
..	..	..	37,904	32,671	70,575	3,37,300	8,64,245	12,01,545	..	

SCHEDULE

Budget Estimate of Minor Works of the

Number of Item.	SANCTIONS.		Particulars.	AMOUNT OF ESTIMATE.		
	Number.	Date.		Cash Outlay in India.	Value of Stores.	Total Expenditure.
			ENGINEER'S DEPARTMENT.	RS.	RS.	RS.
			<i>Bridgework.</i>			
1	C. E. No. 1,318.	11th Dec. 1875.	Single 6 feet rail girder opening in lieu of the single 3 feet culvert at 71st mile, 7th telegraph post, North-west Line.	1,373	89	1,461
2	C. E. No. 959 ..	9th Sept. 1876.	Single 23 feet opening with wrought-iron girders in lieu of the single 12 feet arch at 130th mile, 8th telegraph post, North-west Line.	..	786	786
3	G. O. No. 3,162. C. E. No. 1,231.	6th Nov. 1875. 9th do.	Single 12 feet girder opening at 135th mile, 7th telegraph post, North-west Line.	132	522	654
			<i>Stations and Buildings.</i>			
4	C. E. No. 177 ..	20th Feb. 1874.	Watering arrangements at new Central Station.	1,800	3,003	4,803
5	C. E. No. 880 ..	18th Aug. 1876.	Putting up Turret Clock at do.	1,000	..	1,000
6	Unsanctioned.		Tank and water column at do.	1,280	1,200	2,480
7	C. E. No. 605 ..	12th June 1876.	Store-room for Carriage Examiner at Salt Cotaur Station.	1,178	27	1,205
8	Unsanctioned.		Weigh Bridge and Office at Salt Cotaurs.	1,500	1,700	3,200
9	C. E. No. 167 ..	12th Feb. 1876.	Lean-to verandah for Engine Machinery shops at Perambore workshops.	915	1,001	1,916
10	C. E. No. 230 ..	2nd Mar. 1876.	Auxiliary well at Avady Station ..	1,679	..	1,679
11	C. E. No. 884 ..	21st Aug. 1876.	Do. at Sholinghur Station ..	1,109	..	1,109
12	Do.	Do.	Do. at Arcot Station ..	1,280	..	1,280
13	C. E. No. 1,247.	23rd Nov. 1875.	Catch-siding at Arcot Station ..	768	1,424	2,192
14	C. E. No. 1,013.	25th Sept. 1875.	Loading platform and siding at Veerinjepooram Station.	1,342	1,735	3,077
15	C. E. No. 5 ..	4th Jan. 1876.	Erecting iron tank at Mullapooram Station.	..	1,701	1,701
16	C. E. No. 915 ..	20th Aug. 1875.	Four huts for Conservancy Staff at Jollarpett.	1,240	..	1,240
17	Unsanctioned.		Three fuel stagings for fuelling engines at Jollarpett station.	2,275	..	2,275
18	C. E. No. 230 ..	2nd Mar. 1876.	Auxiliary well at Salem Station ..	1,100	..	1,100
19	C. E. No. 386 ..	11th April 1876.	Flooring with granite slabs the covered portion of passenger platform at Erode Station.	1,116	..	1,116
20	Unsanctioned.		Engine Drivers' Bungalow at Erode ..	2,800	..	2,800
21	C. E. No. 814 ..	23rd July 1875.	Erecting wrought iron tank over the existing tank house at Wutkalloe.	289	1,307	1,596
22	C. E. No. 1,317.	11th Dec. 1875.	Timber platform, altering permanent-way and providing a five ton crane at Coimbatore Station.	2,941	..	2,941
23	C. E., No. 815..	23rd July 1875..	Goods Godown and Platform at Karamady Station.	3,151	749	3,900
24	C. E., No. 811..	Do. ..	Shed over goods open platform at Mettapolliem Station.	1,361	1,161	2,522
25	Unsanctioned		Permanent-way Inspector's Bungalow on the Neilgherry branch.	3,400	..	3,400
26	C. E., No. 567..	30th May 1876..	Alterations for providing a waiting-room for 3rd class passengers at Palghaut Station.	1,729	451	2,180
27	C. E., No. 858..	11th Aug. 1876..	Station Master's house at Muddikerry ..	1,455	..	1,455
28	Do. ..	Do. ..	Do. at Conjeevode ..	1,456	..	1,456
29	Do. ..	Do. ..	Do. at Purley ..	1,457	..	1,457
30	Do. ..	Do. ..	Do. at Luckady ..	1,457	..	1,457
31	Do. ..	Do. ..	Do. at Puttamby ..	1,458	..	1,458
32	Do. ..	Do. ..	Do. at Cootipooram ..	1,459	..	1,459
33	Do. ..	Do. ..	Do. at Tirroor ..	1,459	..	1,459
34	Do. ..	Do. ..	Do. at Tanoor ..	1,460	..	1,460
35	Do. ..	Do. ..	Do. at Perpengady ..	1,460	..	1,460
36	C. E., No. 955..	9th Sept. 1876..	Goods godown and platform and alterations and additions to permanent-way at Luckady Station.	2,533	1,109	3,642
37	C. E., No. 604..	12th June 1876..	Converting swimming bath into Guards' Barracks at Arcconum Station.	465	21	486
38	Unsanctioned		Permanent-way Inspector's bungalow at Cuddapah Station.	3,239	31	3,270
39	Do.		Engine Driver's Bungalow at Cuddapah Station.	2,800	..	2,800

C.

Madras Railway for the Official year 1877-78.

ACTUAL EXPENDITURE UP TO CLOSE OF OFFICIAL YEAR 1876-76.			PROBABLE EXPENDITURE DURING 1876-77.			BUDGET ESTIMATE OF EXPENDITURE FOR OFFICIAL YEAR 1877-78.			Estimated Expenditure in future years.	Remarks.
Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.		
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
30	..	30	1,343	88	1,431	..	..	..	..	
..	..	..	..	786	786	..	..	..	..	
..	..	..	132	522	654	..	..	..	..	
89	4,168	4,257	546	..	546	..	..	..	..	
..	..	..	1,000	..	1,000	1,200	1,200	2,400	..	
..	..	..	1,178	27	1,205	..	..	..	..	
7	1,301	1,308	608	..	608	1,500	1,700	3,200	..	
..	..	..	1,679	..	1,679	..	..	..	..	
..	..	..	1,109	..	1,109	..	..	..	..	
..	..	..	1,280	..	1,280	..	..	..	..	
247	935	1,182	521	489	1,010	..	..	..	..	
..	..	..	1,342	1,735	3,077	..	..	..	..	
..	1,688	1,688	..	13	13	..	..	..	..	
700	18	718	522	..	522	..	..	..	..	
..	..	..	1,275	..	1,275	1,000	..	1,000	..	
..	157	157	943	..	943	..	..	..	..	
..	..	..	1,116	..	1,116	..	..	..	..	
..	..	..	..	..	..	2,800	..	2,800	..	
181	..	181	108	1,307	1,415	..	..	..	..	
..	..	..	2,941	..	2,941	..	..	..	..	
2,705	1,176	3,881	19	..	19	..	..	..	..	
976	1,406	2,382	140	..	140	..	..	..	..	
..	..	..	..	..	..	3,400	..	3,400	..	
..	..	..	1,729	451	2,180	..	..	..	..	
..	..	..	1,455	..	1,455	..	..	..	..	
..	..	..	1,456	..	1,456	..	..	..	..	
..	..	..	1,457	..	1,457	..	..	..	..	
..	..	..	1,457	..	1,457	..	..	..	..	
..	..	..	1,458	..	1,458	..	..	..	..	
..	..	..	1,459	..	1,459	..	..	..	..	
..	..	..	2,271	20	2,291	..	..	..	..	
..	..	..	1,460	..	1,460	..	..	..	..	
..	..	..	1,460	..	1,460	..	..	..	..	
..	..	..	2,533	1,109	3,642	..	..	..	..	
..	..	..	465	21	486	..	..	..	..	
..	..	..	1,000	..	1,000	2,239	31	2,270	..	
..	..	..	..	..	..	2,800	..	2,800	..	

Revised estimate
Rupees 2,291.

SCHEDULE
Budget Estimate of Minor Works of the

Number of Item.	SANCTIONS.		Particulars.	AMOUNT OF ESTIMATE.		
	Number.	Date.		Cash Outlay in India.	Value of Stores.	Total Expenditure.
			<i>Stations and Buildings—(Continued).</i>	RS.	RS.	RS.
40	C. E., No. 853..	11th Aug. 1876..	Station Master's house at Kondapoorum.	1,079	..	1,079
41	C. E., No. 958..	9th Sept. 1876..	Refreshment-room with front and back verandahs and providing waiting-room for 3rd-class passengers at Tadputri Station.	2,445	508	2,953
42	Unsanctioned	..	Engine Drivers' Bungalow at Gooty Station.	2,800	..	2,800
43	Do.	..	Shed around the shear legs at Gooty Station.	250	750	1,000
44	Do.	..	Paving the flooring of the engine shed at Gooty Station.	1,400	..	1,400
45	C. E., No. 911..	19th Aug. 1875	Additional works required by the Traffic Department at Adoni Station.	2,595	..	2,595
46	C. E., No. 187..	19th Feb. 1876	Engine Drivers' Bungalow at Bellary Station.	2,800	..	2,800
47	Unsanctioned	..	Engine Drivers' Bungalow at Raichore Station.	2,800	..	2,800
48	Do.	..	Loading platform and siding at Toongabudra.	1,360	1,740	3,100
			<i>Ballast and Permanent-way.</i>			
49	C. E., No. 956..	9th Sept. 1876..	Siding for lifting and repairing vehicles at Tripetty Station.	750	1,979	2,729
			Works not specially provided for ..	..	..	..
			Total, Engineer's Department ..	77,115	22,993	1,00,108
			<i>Locomotive Department.</i>			
..	..	..	Tools and Plant ..	4,258	81,426	85,684
..	..	..	Total, Locomotive Department ..	4,258	81,426	85,684
..	..	..	Total, Schedule C ..	81,373	1,04,419	1,85,792

C—(Continued).

Madras Railway for the Official year 1877-78.

ACTUAL EXPENDITURE UP TO CLOSE OF OFFICIAL YEAR 1875-76.			PROBABLE EXPENDITURE DURING 1876-77.			BUDGET ESTIMATE OF EXPENDITURE FOR OFFICIAL YEAR 1877-78.			Estimated expenditure in future years.	Remarks.
Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.	Cash Outlay in India.	Value of Stores.	Total.		
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
..	..	..	1,079	..	1,079	..	..	..	..	
..	..	..	2,445	508	2,953	..	..	..	..	
..	..	..	..	..	..	2,800	..	2,800	..	
..	..	..	..	..	..	250	750	1,000	..	
..	..	..	..	..	..	1,400	..	1,400	..	
..	..	..	2,595	..	2,595	..	..	..	..	
..	..	..	..	..	..	2,800	..	2,800	..	
..	..	..	..	..	..	2,800	..	2,800	..	
..	..	..	..	..	..	1,360	1,740	3,100	..	
..	..	..	750	1,979	2,729	..	..	..	..	
..	..	..	2,000	1,000	3,000	10,000	5,000	15,000	..	
4,935	10,849	15,784	46,331	10,055	56,386	36,349	10,421	46,770	..	
..	12,155	12,155	258	5,498	5,756	4,000	75,928	79,928	..	
..	12,155	12,155	258	5,498	5,756	4,000	75,928	79,928	..	
4,935	23,004	27,939	46,589	15,553	62,142	40,349	86,349	1,26,698	..	

SCHEDULE D.

Budget Estimate of Expenditure on Capital Establishment of the Madras Railway during the official year 1877-78.

Number.		Details.	Actual for	Budget	Regular	Budget
1876-77.	1877-78.		1875-76.	Estimate for 1876-77.	Estimate for 1876-77.	Estimate for 1877-78.
			RS.	RS.	RS.	RS.
		GENERAL CHARGES.				
		Proportion of General Charges being 3½ per cent. on Indian Cash Outlay on Capital Works	7,208	31,181	16,882	24,443
		ENGINEER'S DEPARTMENT.				
		<i>Huggry Bridge—</i>				
		Entire cost of Establishment ...	19,509	19,614	18,250	8,640
		<i>Cheyair Bridge—</i>				
		One-sixth proportion of Establishment ...	2,120	2,680	2,680	4,380
		<i>General Superintendence—</i>				
		One per cent. of Indian Cash Outlay on Capital Works, as per Schedules A, B, and C ...	2,109	2,500	4,361	6,414
		<i>Divisional Establishments—</i>				
		Six per cent. of Indian Cash Outlay on Capital Works as per Schedules A, B, and C ...	4,985	7,636	11,466	13,362
		Protective Works to Bridges ...	10,305	...	5,720	17,158
		Electric Telegraph ...	42	...	...	...
		Total, Engineer's Department ...	39,071	32,430	42,477	49,954
		LOCOMOTIVE DEPARTMENT.				
		Proportion of Locomotive charges being 25 per cent. of the cost of labour employed on Capital Works ...	4,207	15,100	11,566	14,226
		Total, Schedule D ...	50,485	78,711	70,925	88,623

* Deducting allotments for Cheyair, Huggry, Paupugnee, Chittavutty, and Pennair Bridges and Protective Works to Poiney, Goriatum, Palar, and Naggery Bridges.

SCHEDULE E.
Budget Estimate of Expenditure for purchase of Stores for the Madras Railway during 1877-78.

Detail.	ACTUAL PURCHASE DURING 1875-76.		PROBABLE PURCHASES DURING 1876-77.		ESTIMATED PURCHASES DURING 1877-78.	
	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.
<i>In India.</i>		RS.		RS.		RS.
Firewood ...	64,517	3,10,347	44,643	2,50,000	62,500	3,50,000
Tallow and Grease ...	1,31,728	16,190	57,600	9,000	41,400	6,000
Oil of Sorts ...	6,37,713	78,107	5,14,000	76,500	5,92,000	81,500
Coals ...	5,340	1,11,502	3,000	63,000	3,500	73,500
Coir Rope, &c. ...	1,50,205	20,226	80,000	10,000	80,000	10,000
Cotton Waste ...	44,785	3,302	6,850	750	32,000	2,500
Teak Timber ...	139	12,485	...	68,000	...	...
Wooden Sleepers ...	38,654	1,23,934	...	50,000	...	28,000
Government Duty and Landing Charges	...	47,158	...	70,000	...	50,000
Manufacture of Stores ...	...	16,653	...	1,36,000	...	65,000
Sundry Stores ...	...	1,91,092	...	...	...	1,93,600
<i>In England.</i>		RS.		RS.		RS.
Materials for Taraulins ...	...	9,30,996	...	7,33,250	...	8,60,100
Segments of Cylinders ...	...	60,540	...	46,000	...	47,900
Do. do. and Girders	155	15,783	...	...	...	...
Coke, Coal and Patent Fuel	...	2,41,178	10,200	1,40,000	...	2,00,000
Iron of Sorts ...	10,561	13,361	122	2,61,000	10,000	2,52,000
Crank Axles ...	35	11,910	...	35,000	...	63,350
Machinery ...	8	34,593	...	...	32	53,000
Copper and Brass ...	9,038	4,898	51,740	30,000	...	73,000
Grease ...	9,139	1,472	16,000	2,000	16,000	2,000
Telegraph Stores ...	...	91,944	...	5,000	...	5,000
Boiler Cylinders, &c. ...	...	5,573	...	2,31,500	...	2,31,500
Permanent-way Materials	5	77,783	...	5,00,000	...	13,85,000
Plates for Engine Fire Boxes	392	13,049	...	...	...	...
Tyres for Engine and Carriage Wheels	7	49,583	...	...	...	...
Locomotive with Tenders	1,001	2,52,291	...	3,71,800	1,124	77,400
Sundry Stores ...	...	8,73,953	...	16,22,300	10	3,50,000
Total, Schedule E. ...	...	18,04,954	...	23,55,550	...	31,71,150
						40,31,250

MEMORANDUM.

Actual balance of Stores in hand, 1st April 1876	...	...	...	RS.
Estimated purchases during 1876-77 as above	...	...	...	33,25,736
			...	23,55,550
			Total	56,81,286
Estimated issues during 1876-77	...	...	...	24,79,453
Estimated balance on 1st April 1877	...	...	...	32,01,833
Estimated purchases during 1877-78	...	...	...	40,31,250
			Total	72,33,083
Estimated issues during 1877-78	...	...	...	31,56,715
Estimated balance on 1st April 1878	...	...	...	40,76,368

SCHEDULE F.

Estimate of Traffic Receipts of the Madras Railway for 1877-78.

Number of miles open for traffic on 1st April 1876	...	...	...	858
Expected to be opened during 1876-77	...	...	...	...
			Total on 1st April 1877...	858
Expected to be opened during 1877-78	...	...	...	...
Total likely to be opened at end of 1877-78	...	...	...	858
Average number of miles expected to be opened during the whole of 1877-78	...	...	...	858

	Actuals in 1875-76.	Sanctioned Budget Estimate, 1876-77.	Regular Estimate, 1876-77.	Budget Estimate, 1877-78.
	RS.	RS.	RS.	RS.
Coaching Traffic...	24,87,591	24,20,000	26,00,000	26,00,000
Goods do.	37,29,416	38,80,000	40,00,000	40,00,000
Harbour Works	10,113	86,000	85,000	1,50,000
Electric Telegraph earnings	27,250	23,500	21,000	22,000
Sundries	1,93,955	1,90,500	1,94,000	2,00,000
Total	64,48,325	66,00,000	69,00,000	69,72,000

SCHEDULE G.

Estimate of Revenue Expenditure on the Madras Railway for the Official year 1877-78.

	Actuals in 1875-76.	Sanctioned Budget Estimate, 1876-77.	Regular Estimate, 1876-77.	Budget Estimate, 1877-78.
	RS.	RS.	RS.	RS.
Maintenance of Way, Works and Stations,				
1st.—General Superintendence...	2,54,711	2,10,000	2,50,000	2,60,000
2nd.—Maintenance and Renewal of Permanent Way	7,16,283	6,40,000	8,00,000	7,50,000
3rd.—Repairs of Bridges, &c., Wages and materials	4,68,228	5,13,000	3,20,000	4,20,000

Estimate of Revenue Expenditure on the Madras Railway for the Official year 1877-78—(Contd.)

	Actual in 1875-76.	Sanctioned Budget Estimate, 1876-77.	Regular Estimate, 1876-77.	Budget Estimate, 1877-78.
Maintenance of Way, Works and Stations— (Continued).	RS.	RS.	RS.	RS.
4th.—Repairs of Stations and Buildings and materials	1,08,687	80,000	1,06,000	1,08,000
5th.—Maintenance by Contract	...	...	...	...
6th.—New Minor Works	565	...	20,000	20,000
7th.—Unclassified Expenditure	31,885	22,000	32,000	32,000
Total	15,80,359	14,65,000	15,28,000	15,90,000
Locomotive Expenses.				
1st.—General Superintendence	1,19,356	1,25,417	1,25,417	1,16,061
2nd.—Running Expenses (wages connected with the working of locomotive engines)	2,17,358	2,15,899	2,16,687	2,16,687
3rd.—Fuel	7,27,908	6,11,496	6,76,000	6,76,000
4th.—Water (including wages and stores)	25,529	28,503	25,374	28,503
5th.—Oil, tallow and other stores (expended on engines in work)	27,207	27,253	24,987	27,253
6th.—Maintenance and Renewals of locomotive engines and machinery	3,61,573	3,40,432	4,71,952	5,19,147
7th.—Payments to other Lines	...	...	1,000	1,000
8th.—Unclassified Expenditure	164	1,000	1,000	1,000
Total	14,79,095	13,50,000	15,42,417	15,85,651
Carriage and Wagon Expenses.				
1st.—General Superintendence	25,327	20,917	20,917	30,348
2nd.—Repairs and Renewals of vehicles and machinery	2,47,687	1,75,077	3,05,273	3,30,273
3rd.—Cleaning Carriages and Wagons and Oiling	48,442	53,006	47,649	53,006
4th.—Unclassified Expenditure	72,583	1,000	1,000	1,000
Total	3,94,039	2,50,000	3,74,839	4,14,627
Traffic Expenses.				
1st.—Salaries, Wages, &c.	4,49,223	4,30,400	4,74,000	4,83,500
2nd.—Fuel, Lighting, Water and General Stores	1,14,776	1,17,000	1,17,000	1,49,500
3rd.—Clothing	10,546	10,200	10,000	10,000
4th.—Printing, Stationery and Tickets	42,444	43,800	45,000	45,000
5th.—Charges for delivery and collection of Goods, &c.	...	...	12,000	12,000
6th.—Miscellaneous	566	600	600	600
7th.—Payments to other Lines	14,538	18,000	...	...
8th.—Unclassified Expenditure	255	...	...	...
Total	6,32,348	6,20,000	6,58,600	7,00,600
Deduct sum chargeable to Fire Insurance Fund.	197	...	...	...
Total	6,32,151	6,20,000	6,58,600	7,00,600

Estimate of Revenue Expenditure on the Madras Railway for the Official year 1877-78—(Contd.)

	Actuals in 1875-76.	Sanctioned Budget Estimate, 1876-77.	Regular Estimate, 1876-77.	Budget Estimate, 1877-78.
<i>General Charges.</i>	RS.	RS.	RS.	RS.
1st.—Home Expenditure	72,227	75,000	75,000	75,000
2nd.—Salaries of Indian Management, including Offices	2,31,259	2,38,315	2,40,000	2,45,000
3rd.—Police	27,520	30,746	30,000	30,000
4th.—Advertising (all advertisement of all Departments)	3,118	3,500	3,500	3,500
5th.—Electric Telegraph	99,722	1,27,439	1,00,000	1,00,000
6th.—Clearing accounts with other Lines	1,219	10,000	10,000	10,000
7th.—Unclassified Expenditure				
Total..	4,35,065	4,85,000	4,58,500	4,63,500
<i>Special and Miscellaneous Expenditure.</i>				
1st.—Law Charges	2,272	10,000	10,000	10,000
2nd.—Compensation	6,724	10,000	10,000	10,000
3rd.—Rates and Taxes...	8,722	10,000	10,000	10,000
4th.—Interest on Revenue Balances	6,589	...	40,000	50,000
5th.—Payments to other Lines...				
Total ...	24,307	30,000	70,000	80,000
Deduct sum chargeable to Fire Insurance Fund	1,391	...	...	...
Total ...	22,916	30,000	70,000	80,000

MADRAS,
31st October 1876.

(Signed) J. CRAMP,
Chief Accountant.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) P. LAMBERT, Major, R.E.,
Examiner of Railway Accounts.

(Signed) R. B. ELWIN,
Agent and Manager.

NOTE ON THE ADMINISTRATIVE ESTIMATES OF THE MADRAS
RAILWAY FOR 1876-77 AND 1877-78.

ADVANCES ON CAPITAL ACCOUNT.

Regular Estimate, 1876-77.

1. The amounts entered by the Railway Company compare as follows with the sanctioned Budget:—

	Sanctioned Budget.	Regular Estimate.
	RS.	RS.
Expenditure	14,00,000	12,86,546
Receipts	19,00,000	19,00,000
Net cash demands	5,00,000	6,13,454

2. The figures now given do not, it is thought, need any important revision. The following items however appear to call for some remark:—

SCHEDULE A.

Protective works to Poiney Gorriattum, Palar, and Naggery Bridges.—The amount entered for these works is Rupees 1,50,000. As Government are aware, work was stopped last year pending a settlement of the question of revised design for protective works as against entirely new bridges. No expenditure has yet been incurred during the current year, but it is understood that there are for settlement heavy claims brought by contractors owing to the stoppage of the works, and it is estimated that Rupees 1,00,000 will be required on this account. The amount entered may be reduced by Rupees 50,000.

SCHEDULE E.

The amount entered for Stores is considered insufficient, but there will probably be savings under the other Schedules in minor items which cannot now be particularised, but which will to a great extent make up for the anticipated excess. It is thought that the total Capital Expenditure may be taken at Rupees 12,50,000; and in order to arrive at this sum Rupees 13,454 will be added under Schedule E, which will then be Rupees 7,46,704.

3. *Refunds.*—The estimate under this head may, it is considered, be accepted.

BUDGET ESTIMATE 1877-78.

4. The Capital Expenditure is estimated by the Agent at Rupees 16,47,108, and the credits at Rupees 19,00,000. It is considered that the expenditure has been overestimated, as is generally the case.

The following points appear to call for remark:—

SCHEDULE A.

Protective works to Palar, Poiney, Gorriattum, and Naggery Bridges, Rupees 2,50,000.—In the present unsettled state of this question it does not seem probable that much work will be done during the ensuing year, and the provision may, it is thought, be reduced to Rupees 1,00,000.

SCHEDULE B.

New Bridges over Paupugnee, Chittravutty, and Pennair Rivers, Rs. 1,50,000.—It appears doubtful whether these bridges will be taken in hand during the ensuing year; but the expenditure, a portion of which will be borne by Revenue, cannot, it is thought, be very considerable, and it is recommended that the provision be reduced to Rupees 50,000.

Building Ash-pits under Passenger Lines at Royapooram, Rupees 10,000.—After discussion it has been decided that the conversion of the carriage shed, providing room for seven engines, will be sufficient for the present. This item may therefore be omitted.

Loading gauges, Rupees 9,679.—May be reduced to Rupees 6,794. Although the pattern to be followed may be soon decided, it is not probable that the line will be furnished throughout during 1877-78.

Two Engine Drivers' Bungalows at Bangalore, Rupees 5,600.—May be omitted.

Twenty new Locomotives, Rupees 20,000.—This provision may, it is thought, be reduced to Rupees 10,000.

SCHEDULE D.

Owing to the reductions made in the estimated Capital Expenditure, the amount (Rupees 88,623) entered for Establishments may, it is thought, be reduced to Rupees 70,000.

SCHEDULE E.

The amount entered may be allowed to stand. The apparent increase under firewood is due to a smaller expenditure during current year consequent on reduction of stock.

5. The reductions herein proposed may be thus summarised:—

	RS.
Schedule A, Engineering	1,50,000
Schedule B, do.	1,18,485
Do. Locomotive	10,000
Schedule D	18,623
Total	2,97,108

leaving a balance of Rupees 13,50,000 to represent the total expenditure, which figure is recommended for acceptance by the Government of India.

6. *Refunds.*—These are estimated at the same figure as for the current year which may, it is thought, be accepted.

7. With the modifications recommended in the foregoing paragraphs, the estimates of cash expenditure in India will be as follows:—

Capital Outlay.							Regular Estimate, 1876-77.	Budget Estimate, 1877-78.
Engineering.							RS.	RS.
Sanctioned Works	...	...	...	...	...	...	3,08,123	1,67,845
Unsanctioned do.	...	...	...	...	...	...	31,654	1,68,802
Minor do.	...	...	...	...	...	...	46,331	36,349
Locomotive.							RS.	RS.
Sanctioned Works	...	...	...	...	...	...	25,068	...
Unsanctioned do.	...	...	...	...	...	...	2,500	15,000
Minor do.	...	...	...	...	...	...	258	4,000
Carriage and Wagon.							RS.	RS.
Sanctioned Works	...	...	...	...	...	...	14,687	2,891
Unsanctioned do.	...	...	...	...	...	...	3,750	25,013
Minor do.	...	...	...	...	...	...	...	...
Establishments	...	...	...	...	...	...	70,925	70,000
Stores	...	...	...	...	...	...	7,46,704	8,60,100
Refunds	...	...	...	...	...	...	12,50,000	13,50,000
Net Cash Demands	...	...	...	...	...	...	19,00,000	19,00,000
	...	...	...	...	...	...	6,50,000	5,50,000

REVENUE ACCOUNT.

8. *Regular Estimate 1876-77.*—The figures now submitted for the Administrative Estimate compare as follows with those accepted by the Government of India in Proceedings of this Government No. 1,114, dated 5th May 1876:—

	Sanctioned Budget Estimate.	Regular Estimate.
	RS.	RS.
Receipts	66,00,000	69,00,000
Expenditure	42,00,000	46,32,356
Profits	24,00,000	22,67,644

9. *Receipts.*—The Traffic Manager's estimate was framed before the results of the failure of the monsoon were fully realized, and in consequence of the heavy grain traffic brought about by the scarcity in several districts served by the railway, the receipts will be considerably higher than was anticipated. The total earnings up to the end of September (six months) were Rupees 32,67,274; and during October the average was upwards of Rupees 1,50,000 per week. According to the latest return received, the receipts have reached Rupees 1,70,000 per week, and there is every prospect of their going still higher. It is thought that the present rate will be at least maintained up to the end of the official year, and on that basis the following estimate is arrived at:—

	RS.
Receipts up to 30th September	32,67,274
October, four weeks, at Rupees 1,50,000	6,00,000
November to March, twenty-two weeks, at Rupees 1,70,000	37,40,000
Total	76,07,274

The total receipts may therefore be safely assumed at Rupees 76,00,000.

10. *Expenditure.*—The working expenses of the Locomotive Department have been high up to the present time, and will doubtless be increased by the extra work performed in connection with the grain traffic; the repairs to engines will also be heavy from the same cause; while a further expenditure will be incurred in the hire of locomotives from other Companies. In the Traffic Department some extra expenditure will also be incurred. On the whole it is considered that the total expenditure in all departments may be taken at Rupees 48,00,000.

BUDGET ESTIMATE 1877-78.

11. The total receipts are entered at Rupees 69,72,000, and the expenditure at Rupees 48,34,378. In the present state of affairs it is difficult to make a reliable forecast for the ensuing year. Speaking generally, it may be assumed that the receipts for the first-half of the year will be considerably above the average, as grain will probably be conveyed to the distressed districts for some months after the close of the official year. On the other hand, there can be little doubt that, so soon as the pressure is over, a reaction will follow, and the receipts may be expected to fall below the average.

The working expenses appear high, but it must be remembered that the engines having to work to their maximum power as long as the present heavy traffic lasts, will require in many cases to be thoroughly overhauled when they can be taken into the shops. The renewals of permanent-way will be increasing, and a further charge will

be thrown upon the Revenue Account by the new bridges on the North-west Line. No alteration is at present recommended in the Agent's figures.

12. The suspense transactions being accepted as submitted by the Agent, the following is a summary of the Revenue Estimates as recommended for adoption:—

								Regular Estimate, 1876-77.	Budget Estimate, 1877-78.
<i>Receipts.</i>								RS.	RS.
Administrative	...	...	...	...	...	...	...	76,00,000	69,72,000
Suspense	...	...	...	...	...	...	...	3,80,000	4,00,000
<i>Withdrawals.</i>									
								79,80,000	73,72,000
Administrative...	...	...	...	...	...	...	...	48,00,000	48,34,378
Suspense	...	...	...	...	...	...	...	3,80,000	4,00,000
<i>Net Receipts.</i>									
								51,80,000	52,34,378
Administrative...	...	...	...	...	...	...	...	28,00,000	21,37,622
Suspense	...	...	...	...	...	...	...	...	...
								28,00,000	21,37,622

MADRAS,
1st December 1876.

(Signed) J. H. M. SHAW-STEWART, Lt.-Col., R.E.,
Consulting Engineer for Railways.

 Note on the Administrative
 Estimates of the Madras Railway for
 1876-77 and 1877-78.

Advances on Capital Account

Regular Estimate 1876-77

1. The amounts entered
 by the Railway Company compare
 as follows with the sanctioned Budget.

	Sanctioned Budget	Regular Estimate
Expenditure	14,00,000	12,86,546
Receipts	19,00,000	19,00,000
but cash demands	5,00,000	6,15,000

2. The figures now given do
 not, it is thought, need any important
 revision.

Of 16 Decr/76-12

The

The following items however appear to call for some remark:

Schedule A. Protective works to Poincy, Gorriathun, Palav, and Haggery bridges.

The amount entered for these works is £1,50,000. As Government are aware, work was stopped last year pending a settlement of the question of revised design for protective works as against entirely new bridges. No expenditure has yet been incurred during the current year, but it is understood that there are for settlement heavy claims brought by Contractors owing to the stoppage of the works, and it is estimated that £1,00,000 will be required on this account. The amount

entered may be reduced by [£]50,000.

Schedule E.—The amount entered for stores is considered insufficient, but there will probably be savings under the other schedules in minor items which cannot now be particularised, but which will to a great extent make up for the anticipated excess. It is thought that the total Capital expenditure may be taken at £12,50,000; and in order to arrive at this sum £13,454 will be added under Schedule E which will show be £7,46,704.

3. Refunds.—The estimate under this head may, it is considered, be accepted.

Budget Estimate. 1877-78.

4. —The Capital expenditure

is estimated by the Agent at Rs 16,47,108,
and the credits at Rs 19,00,000. It is
considered that the expenditure has been
overestimated, as is generally the case.

The following points
appear to call for remark:

Schedule A. Protective works to Palav,
Poiney, Gorriattum, and Naggeray

bridges. Rs 2,50,000.—In the
present unsettled state of this question
it does not seem probable that much
work will be done during the en-
suing year, and the provision may
it is thought be reduced to Rs 1,00,000.

Schedule B. New bridges over Paupugnee,
Chittravetty, and Pennair rivers.

Rs 1,50,000.—It appears doubtful
whether

whether these bridges will be taken in
hand during the ensuing year; but
the expenditure, a portion of which will
be borne by Revenue, cannot it is thought
be very considerable, and it is recommended
that the provision be reduced to Rs 50,000.

Building ash-pits under passenger lines
at Royapuram. Rs 10,000.—After dis-
cussion it has been decided that the
conversion of the carriage shed, pro-
viding room for seven engines, will be
sufficient for the present. This item
may therefore be omitted.

Loading gauges. Rs 9,679.—May be
reduced to Rs 6,794. Although the
pattern to be followed may be soon
decided, it is not probable that the

line

line will be furnished throughout during 1877-78.

Two engine drivers bungalows at Bangalore—Rs 5,600—may be omitted.

Twenty new locomotives—Rs 20,000.

This provision may, it is thought, be reduced to Rs 10,000.

Schedule D—Owing to the reductions made in ^{the} estimated capital expenditure, the amount (Rs 88,623) entered for establishments may, it is thought, be reduced to Rs 70,000.

Schedule E—The amount entered may be allowed to stand. The apparent increase under firewood is due to a smaller expenditure during current

45
current year consequent on reduction of stock.

5. The reductions herein proposed may be thus summarised:—

Schedule A. Engineering	Rs 1,50,000	do
Schedule B—do	1,18,485	o.
— " — Locomotive	10,000	
Schedule D	18,623	
Total	2,97,108	

leaving a balance of Rs 13,50,000 to represent the total expenditure; which figure is recommended for acceptance by the Government of India

6. Refunds—These are estimated at the same figure as for the current year which may, it is thought, be accepted.

7. With the modifications recommended

recommended in the foregoing paragraphs,
the estimates of Cash expenditure in India
will be as follows:-

Capital outlay	Regular Estimate 1876-77	Budget Estimate 1877-78
Engineering		
Sanctioned Works	3,08,123	1,67,845
Unsanctioned do	31,654	1,68,802
Minor do	46,331	36,349
Locomotive		
Sanctioned Works	25,068	-
Unsanctioned do	2,500	15,000
Minor do	258	4,000
Carriage and Wagon		
Sanctioned Works	14,687	2,891
Unsanctioned do	8,750	25,013
Minor do	-	-
Establishments		
Stores	70,925	70,000
	7,46,704	8,60,800
Total	12,50,000	13,50,000
Refunds	19,00,000	19,00,000
Net Cash demands	4,00,000	

5

Revenue Account. II

Regular Estimate 1876-77.

8. The figures now sub-
mitted for the Administrative Estimate
compare as follows with those accepted
by the Government of India in Pro-
ceedings of this Government No 1,114
dated 5th May 1876,

	Sanctioned Budget Estimate	Regular Estimate
Receipts	66,00,000	69,00,000
Expenditure	42,00,000	46,32,356
Profits	24,00,000	22,67,644

9. Receipts—The Traffic Manager's
estimate was framed before the results
of the failure of the monsoon were
fully realised, and in consequence of the
heavy

heavy grain traffic brought about by the scarcity in several districts served by the railway, the receipts will be considerably higher than was anticipated.

The total earnings up to the end of September (6 months) were —

£32,67,274; and during October, the average was upwards of £1,50,000 per week. According to the latest return received, the receipts have reached £1,70,000 per week, and there is every prospect of their going still higher.

It is thought that the present rate will be at least maintained up to the end of the official year, and on that basis the following estimate is

arrived

arrived at:

Receipts up to 30 September	£32,67,274
October - 4 weeks at £1,50,000	6,00,000
November to March - 22 weeks at £1,70,000	37,40,000
	<u>£76,07,274</u>

The total receipts may therefore be safely assumed at £76,00,000.

10. Expenditure — The working expenses of the Locomotive Department have been high up to the present time, and will doubtless be increased by the extra work performed in connection with the grain traffic; the repairs to engines will also be heavy from the same cause; while a further expenditure will be incurred in the hire of locomotives from other Companies. In the

the Traffic Department some extra
the expenditure will also be incurred.
On the whole it is considered that
the total expenditure in all depart-
ments may be taken at £48,00,000.

Est
Budget Estimate. 1877-78.

11. The total receipts are
entered at £69,72,000, and the ex-
penditure at £48,34,378. In the
present state of affairs it is difficult
to make a reliable forecast for the
 ensuing year. Speaking generally, it
Est
Sti
may be assumed that the receipts
for the first half of the year will be
considerably above the average, no grain
will probably be conveyed to the

distressed

distressed districts for some months
after the close of the official year.
On the other hand there can be little
doubt that, so soon as the pressure is
over, a reaction will follow, and the
receipts may be expected to fall be-
low the average.

The working expenses
appear high, but it must be remembered
that the engines having to work to their
maximum power as long as the present
heavy traffic lasts, will require in
many cases to be thoroughly overhauled
when they can be taken into the shops.
The renewals of permanent way will be
increasing, and a further charge will
be thrown upon the Revenue Account.

Est

erecting the new bridges on the North-west
 hemisphere. No alteration is at present recom-
 mended in the Agents figures.

th/2. The suspense transactions
 being accepted as submitted by the
 Agent, the following is a summary of
 the Revenue Estimates as recommended
 for adoption.

		Regular Estimate 1876-77	Budget Estimate 1877-78
Receipts			
to	Administrative	76,00,000	69,72,000
	Suspense	3,80,000	4,00,000
	Financial	79,80,000	73,72,000
Withdrawals			
from	Administrative	48,00,000	48,34,378
	Suspense	3,80,000	4,00,000
	Financial	51,80,000	52,34,378
Net Receipts			
at	Administrative	28,00,000	21,37,622
	Suspense		
Total		28,00,000	21,37,622

has
 under
 1876
 m/2 bill.

10th
 Mount Pleasant
 L.Hol. R.E.

Cons. Engineers for Railways

RAILWAY DEPARTMENT.

114
CONSULTING ENGINEER'S OFFICE,

Madras, 2nd Decr. 1876.

No. 588

From

LIEUT.-COLONEL J. H. M. SHAW-STEWART, R.E.,
Consulting Engineer for Railways,

To

MAJOR-GENERAL G. W. WALKER, R.E.,

Secretary to Government,

Public Works Department,

SIR

Fort Saint George.

I have the honour to forward
herewith the Regular estimate
for 1876-77 and the Budget estimate
for 1877-78 of the Madras Railway
Company, prepared in the revised
form embodied in the Proceedings
of Government No 2372 dated 6th
September 1876, with a note on the
same.

I have the honour to be

Sir

Yours most respectfully
Wm. Stewart

For Engineer for Ry

8016-12-75 No 5530
 " 15-3-76 667 & 668.
 " 5-5-76 1114.
 " 6-9-76 2372.

P.W.D
 - 60EL7E
 NR-6542-

No 3447 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 16 May 1876
 Read the following:—

From
 The Consulting Engineer
 for Rys. } L.H. No. 588 of 2nd Decr. 76

With this letter the
 Consulting Engineer sub-
 mits the Regular and
 Budget Estimates of the
 Madras Railway for
 1877-78.

Capital.

The detailed modifica-
 tions suggested by the
 Consulting Engineer for
 Railways in this portion
 of the Estimates, whereby
 the Capital Expenditure
 has been reduced, are
 accepted. The figures
 will.

No 404

Cin: 12-12-76.

Budget Estimate
 for 1877-78 and regular
 estimate for 1876-77
 together with note

Date 21/12/76
 Received 11/12/76
 No. 588

To
 The Consulting Engineer
 for Railways,
 RAILWAY DEPARTMENT.
 From
 The Secretary to Government,
 P. W. Department,
 Fort Saint George.

will accordingly stand
as under.

	Actuals for 1875-76	Budget & Estimate for 1876-77	Regular Estimate for 1876-77	Budget Estimate for 1877-78
Outlay.....	11,98,961	14,00,000	12,50,000	13,50,000
Revenues.....	19,59,694	19,00,000	19,00,000	19,00,000
Net Receipts	7,60,733	5,00,000	6,50,000	5,50,000

As regards the provision
of Rs. 100,000 for compensation
to Contractors owing to
stoppage of protective
works to bridges this year
the Governor in Council
desires to be informed
as to the details of such
claims as may be pre-
sented, the sum set apart
for the adjustment of
which appears extraor-
dinary high.

Revenue

The projects which

the prevailing scarcity
has given to the grain
traffic necessitates
considerable modifica-
-tion of the figures put
forward by the Rail-
-way Authorities as
the Regular Estimate of
Receipts. There seems
no reason to expect that
the Receipts will fall
short of Rs. 7,60,000. As
regards the Budget esti-
-mate of next year, much
hesitation must neces-
-sarily exist in forecasting
the probable amount of
traffic owing to the general
disturbance of trade.

It may be safely assumed
that a reaction will follow
the present abnormal
activity and allowance

for this must be made.
 The sum set down there.
 hence, viz Rs. 69,72,000 as
 the total Receipts for
 next year may be fairly
 taken to represent the
 value of the traffic for
 that period. The working
 expenses are high, but
 on the recommendation
 of the Comptroller
 the figures are allowed
 to stand. The following
 statement shows the Revenue
 transactions in and out

	Actuals for 1875-76	Budget estimate for 1876-77	Regular esti- mate for 1877	Budget estimate for 1877-78
Receipts	61,48,325	66,00,000	76,00,000	69,72,000
Withdrawals	115,43,625	112,00,000	148,00,000	148,34,278
Net Receipts	19,04,700	24,00,000	28,00,000	21,37,622

The

The ^{15th} estimates will
 be forwarded to the
 Government of India

(H. E. No. 3448 d/16 Aug 76)

Copy of the above
 forwarded to the
 Government of India

C.M.W.

Discd with Rs
 Budget 23-12-76

30 copies of Ry Budget
 Discd - 18-1-77

C.E. for Rys:
 4 Ry Sects:
 Sect General
 Jan. 23-76

21 copies of Ry Budget
 - 7 - "
 3 - "

Discd 18-1-77

