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MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 17,18,19	2311-12	Press / Mis.
Dated	2-10-	1872.

Not to be folded or roughly handled

No. 17. Read the following letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 10th September 1872, No. 482.—

I HAVE the honour to forward herewith the Statistical Review of the Revenue Account of the Madras Railway Company for the half-year ended 31st December 1871.

2. The submission of this return has been delayed by innumerable references to the Railway Authorities, (the last of which was only answered on the 4th September) as well as by the weakness of my office.

3. It will be observed that the distinction between passenger, goods, and mixed trains is made for the first time in this return; the locomotive expenses and general expenses have accordingly been divided between coaching and goods in proportion to the train mileage, instead of, as heretofore, the ton mileage; the result is that the goods traffic is debited with a smaller, and the passenger traffic with a larger, share of the joint expenses.

MADRAS RAILWAY.

TABLE A.

General Statement of Working of half-year ending 31st December 1871

Public Traffic.	Passengers or tons of goods carried		Earnings		Percentage of total earnings contributed by each description of traffic.
	Number	Per cent of total number and total tonnage.	Amount.	Per cent of total earnings from Coaching and Goods	
			RS		
Coaching — Passengers — 1st Class	5,469	0 46	71,896	6 29	35 65
Coaching — Passengers — 2nd ,,	61,012	5 18	91,790	8 03	
Coaching — Passengers — 3rd ,,	977,105	83 00	8,12,094	71 10	
Coaching — Passengers — 4th ,,	133,778	11 36	52,924	4 63	
Coaching — Miscellaneous earnings ..	.		1,13,670	9 95	
Total	1,178,164	100 00	11,42,374	100 00	..
	TONS				
Goods — General Merchandize — Special	8,071	4 46	61,144	3 16	60 42
Goods — General Merchandize — 1st Class	109,527	60 58	8,10,164	41 85	
Goods — General Merchandize — 2nd ,,	27,142	15 01	2,93,063	15 14	
Goods — General Merchandize — 3rd ,, ..	15,153	8 38	2,42,988	12 55	
Goods — General Merchandize — 4th ,,	8,961	4 96	2 39,255	12 36	
Goods — General Merchandize — 5th ,,	6,557	3 63	2,34,805	12 13	
Goods — Government Stores ...	4,117	2 28	15,594	0 81	
Goods — Railway materials ..	1,274	0 70	24,701	1 27	
Goods — Minerals .. .	. .	..			
Goods — Miscellaneous earnings ..	..	.	14,202	0 73	
Total	180,802	100 00	19,25,916	100 00	. ... ..
Miscellaneous, including Electric Telegraph, steam boat, and sundries	. .. ..		1,25,743	... .	3 93
Total .	.	.....	32,04,033	.. .	100 00
Less outstandings irrecoverable . .	... ..	. .	.. .	.	. ...
Grand Total .	.		32,04,033	.. ...	.

General Statement of Working of half-year ending 31st December 1871 —(Continued.)

		Total.	Total (including miscellaneous earnings) and less irrecoverable outstandings.	Excluding Steam boat traffic and contribution to Flotilla Reserve Fund		Percentage of profits on paid up capital.
				Total.	Per train mile	Per open mile per week.	
			Rs.	Rs	Rs. A. P.	Rs.	Rs.
Financial results.							1 48
Coaching	Total.		11,42,374	32,04,033	3 10 3	148	
	Per passenger train mile		Rs A. P. 14 8 6				
	Per open mile per week		Rs 53				
Goods.	Total		5,46,115 5	15,63,276	1 12 5	72	
	Per goods train mile		Rs A. P 9 14 6				
	Per open mile per week.		Rs 89				
Earnings ...			19,35,916				
Expenses (M II, page 15)			9,00,366 5	16,40,757	1 13 10	76	
Profits			10,35,549 5				
Percentage of expenses to earnings .			46 5				
		5,96,258 5	47 8				

Statement showing in comparison the Coaching Traffic, etc.—(Concluded.)

Reference to Revenue Account		Details.	Number		Fare per Mile		Receipts.		Average Mileage.	
Table and main head	Sub-head		2nd half of 1870	2nd half of 1871	2nd half of 1870	2nd half of 1871	2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871
1	..	2nd Class—			Day, 5 Pies; between Coimbatore and Bey-pore, 4 Pies		Rs	Rs.		
		Single Journey ..	48,695	56,446			67,477	78,062	31	31·9
		Excess Fares ..	430	514	Night, 12 Pies, with a special charge of 5 Pies for servants of 1st-class passengers.		344	453	...	..
		Return Journey	2,742	4,072			6,214	8,459	73	119·7
		Troops and Police	394	494			2,437	3,827	394	...
		Total	51,831	61,013	...		76,462	91,790	57	56·5
1	...	3rd Class—								
		Single Journey	765,970	894,561	3 Pies	3 Pies	6,26,013	7,26,294	52	52·2
		Excess Fares .	5,101	8,087			1,436	2,209	..	..
		Return Journey...	45,884	73,734			32,598	55,417	136	76·2
		Troops and Police	13,513	9,610			40,086	24,174	190	...
		Total	825,367	977,905			7,00,133	8,12,094	55	54·1
1	...	4th Class—								
		Single Journey	109,585	133,778	2 Pies.	2 Pies.	42,574	52,924	37	37·3
		Excess Fares					..	...	...	...
		Return Journey	...				..	..	..	...
		Troops and Police	.				...	..	...	...
		Total	109,585	133,778		..	42,574	52,924	37	37·3
2			Tons	Tons						
3		Passengers' Luggage	397	395	...	...	18,625	18,513	...	...
		Military Baggage	120	78		..	9,729	5,712	81	255
			No	No						
4	1	Public Carriages	347	352	.		8,764	9,054	185	194
	2	Horses	1,262	1,260	...	...	19,172	20,007	241	238
	3	Dogs .	1,266	1,362	.	..	1,867	2,010	170	179
5	1	Military Carriages	2			.	46	..	184	144
	2	Horses	37	150		..	704	2,359	221	237
	3	Dogs ..	1	60	...		3	38	170	179
			Tons	Tons						
6	.	Parcels .	778	805		...	40,125	47,121	148	151
			No	No						
7		Special Trains	9	7	...	.	15,629	6,772	192	144
		Post Office—								
8	1	Haulage and hire of Post Office Vehicles		...	.	..	.	..	..	..
	2	Special Trains ..		...					...	..
	3	Parcels			..		1,148	1,394	...	...
		Total	.				1,13,819	1,13,670	...	..
		Grand Total					9,90,732	11,42,374	..	.

TABLE C

Statement showing in comparison the Goods Traffic of the half-years ending 31st December 1870 and 31st December 1871

Reference to Revenue Account			Quantity.				Rate per Ton Mile.		Receipts		Average Mileage	
			2nd half of 1870		2nd half of 1871							
Table and Main head	Sub head		Up	Down	Up	Down	2nd half of 1870	2nd half of 1871	2nd half of 1870.	2nd half of 1871	2nd half of 1870	2nd half of 1871.
X (I) 1	.	General Merchandize—	Tons	Tons	Tons	Tons	Pies	Pies	Rs	Rs		
		Special Class	5,236	2 586	3 537	4 534	8	8	38 105	61,144	117	193
		1st ,,	43,9 6	34 044	34,905	44,622	12	13	5 72,188	8,10,164	116	160
		2nd ,,	10,923	13,124	9,655	17,487	14	14	2,58 413	2,93,063	147	116
		3rd ,,	5,312	7,115	5,027	10,126	18	18	1 80 051	2,49,988	154	179
		4th ,, ..	4,140	1,646	4,144	4,817	24	24	1,28,810	2,39,253	184	210
		5th ,, ..	1,935	1,949	2 056	4,501	36	36	1,45,047	2,34,803	199	199
		Total	71,502	61,846	89,324	86,087			13,22,084	18,81,4 9	131	165

Statement showing in comparison the Goods Traffic of the half-years ending 31st December 1870 and 31st December 1871.—(Concluded)

Reference to Revenue Account			Quantity.				Rate per Ton Mile		Receipts.		Average Mileage.	
			2nd half of 1870		2nd half of 1871							
Table and Main head.	Sub head.		Up.	Down	Up.	Down.	2nd half of 1870.	2nd half of 1871.	2nd half of 1870	2nd half of 1871.	2nd half of 1870	2nd half of 1871.
2	...	Military Stores	Tons 207	Tons 21	Tons 351	Tons 66	Pies ..	Pies ...	Rs 6,365	Rs 15,594	.	259
3	..	Railway Materials for Construction	4,135	4,198	870	404	...		91,985	24,701	243	227
		Minerals—										
6	..	For the public .	..	.	...	...			.		.	...
		Do- Company .	.	...	.	..	.	...	.	.	...	...
		(*Construction only*)	...		.	.	.		.		.	.
		Total .	4,342	4,219	1,221	470	...	..	98,350	40,295	..	234
		Grand Total ..	..	..	..	.		...	14,30,288	19,29,361	..	..
			No	No.	No	No	Rate per animal per mile					
4	..	Live Stock—										
		Horses	60	82	34	47	18	18	1,220	1,065		237
		Cattle ..	215	300	211	211	18	18	1,849	1,641	164	157
		Sheep	1,460	1,604	2,050	457	2	2	1,041	791	134	73
5	...	Military Live Stock—										
		Horses .	18	482	82	294	.		5,609	4,071	...	237
		Cattle	2	8	1	2			135	79	.	157
		Sheep				...			.		...	

TABLE C-I.

Comparative Statement showing the Weight and Earnings of the principal commodities carried during the above half-years.

Description	Quantity		Receipts.		Increase in quantity	Decrease in quantity	Increase in receipts	Decrease in receipts.
	2nd half of 1870	2nd half of 1871	2nd half of 1870.	2nd half of 1871				
	Tons.	Tons	Rs	Rs	Tons.	Tons	Rs.	Rs
Bamboos	1,739	2,078	9,741	10,476	339		735	..
Betel Nuts	2,117	3,031	24,737	37,774	914		13,037	.
Cloths and Piece Goods	2,078	2,464	51,995	60,587	386		8,592	
Coffee . ..	706	957	13,845	16,893	251		3,048	
Cotton	4,389	11,462	1,13,505	3,70,343	7,073		2,56,838	.
Dye or Redwood ...	2,106	1,340	10,430	6,643	..	766		3,787
Firewood	5,229	4,660	22,133	18,069	..	569		4,064
Fruits and Vegetables	1,371	1,551	11,916	13,017	180		1,101	..
Ghee .	472	716	7,045	11,671	244		4,626	
Gram ..	8,428	7,855	64,325	58,721	.	573		5,604
Grains	1,523	8,461	17,583	56,298	6,938		38,715	..
Gunnies	1,312	1,988	13,475	24,429	676		10,954	..
Indigo	601	709	9,636	11,913	108		2,277	
Iron of all kinds	2,544	2,879	38,362	45,507	335	..	7,145	
Jaggree	2,088	6,528	22,172	56,066	4,440		33,894	...

Comparative Statement showing the Weight and Earnings, etc —(Concluded)

Description.	Quantity		Receipts.		Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts
	2nd half, of 1870	2nd half, of 1871	2nd half, of 1870.	2nd half, of 1871				
	Rs	Tons.	Rs	Rs	Tons	Tons.	Rs	Rs.
Oil of all kinds	3,025	3,170	32,421	32,594	145	...	163	...
Ordnance Stores	162	290	5,096	11,705	128	...	6,619	...
Potatoes	1,805	1,983	24,548	27,098	178	...	2,550	..
Raggy	3,423	2,692	30 701	19,908	.	731	...	10,793
Rice	19,218	40 691	1,24,635	3,17,699	21,473	...	1,93,064	...
Salt	24,603	22,099	1,84,124	1,59,428	...	2,504	...	24,696
Salt-fish	1,808	1,506	23,077	17,444	.	302	...	5,633
Seeds of all kinds	3,554	6,126	44,407	56,363	772	...	11,956	...
Skins	1,411	2,291	22,233	38,527	880	...	16,294	...
Sugar of all kinds	1,201	2,091	11,342	16,433	890	...	5,091	...
Sundries	22,350	21,223	2,75,522	2,75,377	973	...	...	145
Tamarind	2,716	2,489	19,163	13,729	..	227	...	5,434
Timber	4,666	5,084	27,170	29,519	418	..	2,349	...
Tobacco	1,741	1,816	12,417	12,499	75	...	82	...
Twist . .	1,486	1,533	36,599	39,751	46	...	3,152	...
Wines and spirituous liquors ...	1,194	1,549	24,094	30,531	355	..	6,437	...
Total..	132,866	175,411	13,28,449	18,97,013	48,217	5,672	6,28,719	6 0,156

TABLE D

Statement of Mileage maintained *

Reference to Revenue Account		Details.	2nd half of 1870.			2nd half of 1871.				
Table and Main head.	Sub-head.		Departmentally	By contract.	Total.	Departmentally	By contract.	Total.	Total increase	Total decrease
IX. (A.)	.	1. 2 3 Mean miles of line maintained. Single	$666\frac{7}{1\,2}$	.	$666\frac{7}{1\,2}$	$702\frac{1}{4}$	...	$702\frac{1}{4}$	$35\frac{1}{4}$	...
		Double.	...	...	...	.	..	...	..	..
		Total	$666\frac{7}{1\,2}$	.	$666\frac{7}{1\,2}$	$702\frac{1}{4}$	..	$702\frac{1}{4}$	$35\frac{1}{4}$	...
		4. ,, Sidings maintained, Total .	$76\frac{5}{8}$	..	$76\frac{5}{8}$	$80\frac{7}{1\,2}$	..	$80\frac{7}{1\,2}$	$3\frac{7}{8}$	..
		5. ,, Single Track Total, including Sidings	$743\frac{5}{1\,2}$	...	$743\frac{5}{1\,2}$	$782\frac{1}{8}$	..	$782\frac{1}{8}$	$39\frac{5}{1\,2}$	...

* From Revenue Funds.

TABLE D-I

Statement of Train Mileage

No	Details.	Train Miles run for			Hours of		
	Reference to Revenue Account	Traffic Department	Locomotive Department	Maintenance Department	Assisting Engines	Shunting, Piloting, etc.	Miscellaneous Services
		XIV 1	XIV 2	XIV 3	XIV 4	XIV 5	XIV. 6
1	2nd half, 1870 .. Passenger . Goods Mixed	774,792	10,360	32,199	16	17,692	1,777
	Total	774,792	10,360	32,199	16	17,692	1,777

Statement of Train Mileage.—(Concluded.)

No.	Details	Train Miles run for			Hours of		
	Reference to Revenue Account	Traffic Department	Locomotive Department.	Maintenance Department	Assisting Engines.	Shunting, Piloting, etc	Miscellaneous Services.
		XIV 1	XIV 2	XIV. 3	XIV 4.	XIV 5	XIV. 6
2	2nd half of 1871 Passenger . Goods Mixed .	78,602 195,979 604,544	14,304	37,484	7	20,829	2,326
	Total..	879,125	14,304	37,484	7	20,829	2,326
3	Increase in 1870 Passenger ... Goods .. Mixed ..	104,333	3,944	5,285	..	3,137	549
	Total ..	104,333	3,944	5,285	..	3,137	549
4	Decrease in 1871 Passenger . Goods . Mixed ...	...	...	...	9	.	..
	Total	.	...	.	9	.	...

TABLE E.

Maintenance of Way, Works, and Stations.

Rails

Reference to Revenue Account.			2nd half of 1870	2nd half of 1871.						
Table and Main head	Sub head		Total	Total	Increase.	Decrease				
XIV		Train Mileage (D-I 1 pages 6-7)	774,792	879,125	104,333					
		Ton Mileage (M I 22 page 14) .	127,720,747	173,455,265	45,734,518	.				
		Details	2nd Half of 1870	2nd Half of 1871.			Per mile of line maintained. D -3	Per mile of track including sidings D -5	Per Train Mile	Per 1,000 Ton Miles.
			Total.	Total	Increase	Decrease				
			Rs	Rs	Rs	Rs	Rs	Rs.	As	Rs
If done Departmentally.	IX (A) I	1 & 2	Superintendence— Engineers' salaries and allowances	29,799	32,044	2,245	..	45 631	40 933	583	185
		3 to 5	Inspectors' and Platelayers' salaries and allowances, including overtime	14,074	15,113	1,039	...	21 521	19 306	275	·087
		6	Office expenses	8,395	11,043	2,648	...	15·725	14 107	201	·064
	2		Maintenance and Renewal of Permanent Way—								
		1	Wages ..	1,37,140	1,31,508	..	5,632	187 267	167 990	2 393	758
		2	Materials	1,22,146	1,28,150	6,004	...	182 485	163 701	2 332	739
	3		Repairs of Bridges, etc — Wages and Materials—								
		1	Bridges and Tunnels	21,778	1,19,102	97,324		169 601	152 143	2 168	687
		2	Miscellaneous .	28,575	22,088	..	6,487	31 453	28 215	402	127
	4		Repairs of Stations and Buildings—Wages and Materials—								
		1	Repairs of all except Staff quarters .	21,552	1,929	.	19,623	2 747	2 464	035	011
		2	Repairs of Staff quarters	5,312	5,726	414	...	8 154	7 314	·104	033
	5		Maintenance by Contract .	.	.	...	...	..	..	.	.
			Unclassified Expenditure—								
		1	Plantations .	.	.	.	.	.	.	...	...
	6	2	Tools and Plant	6,123	7,772	1,649		11 067	9 928	·142	045
		3	Loss on stores, etc	5,672	866		5,306	·521	468	007	002
			Total	4,00,566	4,74,841	1,11,323	37,048	676 172	606 569	8 642	2 738

TABLE E-I.
Maintenance of Way
RAILS.

No.	Details	Doubled headed 65 lbs	Doubled headed 75 lbs	Doubled headed 84 lbs	Doubled headed Steel, 75 lbs.	Bridge	Total.
1	Miles of rail in way, including sidings	M CH L 658 68 22	M CH L. 964 26 33	M CH. L. 141 20 4	M CH L. 65 7 34	M CH L 0 13 52	M CH L 1,829 56 18
2	Average age of rails in way at the middle of the half year in years	Y M D. 8 8 14	Y. M D 5 10 19	Y M D. 8 6 22	Y M D 2 5 14	Y M D 5 7 15	Y M D. ...
3	Rails inverted {Number / Miles	660 2 40 0	71 0 21 84	4 0 1 14	..	..	735 2 62 48
4	Proportion inverted per mile of (1) rail	0 003	0 0002	0 0001	.	...	0 0015
5	Rails renewed {Number / Miles	74 0 22 28	57 0 17 18	34 0 10 20	9 0 2 48	...	174 0 52 48
6	Proportion renewed per mile of (1) rail	0 0004	0 0002	0 0009	0 0005	..	0-0003
7	Average number of tons hauled over each kind of rail in the half year	...	Not recrded		...	..	...
8	Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2)	.	Not recorded		.	...	...

TABLE E-II.
Maintenance of Way
SLEEPERS.

No	Details	Wood — Teak 10′×10″×5″	Teak 10′×12″×6″	Teak 12′×12″×6″	Teak 14′×12″×6″	Teak 16′×12″×6″	Jungle 10′×9″×5″	Jungle 10′×10″×5″	Jungle 10′×12″×6″	Iron Rowls, 84 lbs.
1	Number of sleepers in way, including sidings	12,015	807	4,007	340	301	59,001	204,280	535	2,480,950
2	Average age of sleepers in way at the middle of the half year	Y M D 6 2 15	Y. M. D 5 4 29	Y M D 1 0 0	Y M D 1 0 0	Y M. D. 2 2 0	Y M D. 5 9 27	Y M D. 3 6 26	Y M. D. 1 0 0	Y. M D. 5 2 27
3	Number renewed	131	... ..	. ..	...	...	1,512	15,479	...	7,347
4	Do per cent. of (1)	1 09	... .	... ...	.	..	2 56	7 57	...	0-29

TABLE F.
Locomotive Department Expenses

Reference to Revenue Account			2nd half of 1870	2nd half of 1871			
Table and Main head	Sub head	Details	Total	Total	Increase	Decrease	
XIV		Train Mileage (D —I 1, pages 6 7) Ton Mileage (M —I 22, page 14)	774,792 127,720,747	879,125 173,455,205	104,333 45,734,518	.. ...	
IX (B) 1	1 & 2	General Superintendence— Salaries of Locomotive Superintendents and Assistants, including allowances	Rs. 5,568	Rs 11,904	Rs 6,336	Rs. ...	As 0 217
	2 to 5	Do of Foremen, including allowances and overtime	16,784	25,349	8,565		0 461
	6	Office expenses	16,518	12,850	...	3,668	0 234
2	1 & 2	Running Expenses— Wages of Drivers and Firemen, including overtime	91,647	89,328	...	2,319	1 626
	3	Fueling, cleaning, and looking after engines	16,138	16,703	565	..	0 304
	4	Contingent expenses	348	402	54		0 007
3	1	Fuel— Coal	3,830	72,040	68,210		1 313
	2	Coke	48,839	81,644	32,805		1 486
	3	Patent Fuel	61,345	13,145		48,200	0 239
4		Wood	92,589	1,02,669	10,080		1 869
5	1, 2 & 3	Water	12,364	14,416	2,052		0 263
	..	Oil, Tallow, etc	10,584	12,761	2,177		0 232
6	1 & 2	Maintenance and Renewals— Wages, including overtime	73,981	77,900	3,919		1 416
7	3	Materials	48,887	6,664	16,777		1 195
8	..	Services of other Lines					
	..	Unclassified expenditure					
		Total	4,99,462	5,96,825	1,51,550	54,187	10 862

Reference to Revenue Account				2nd half of 1870	2nd half of 1871			
Table and Main head	Sub head	Description		Total quantity	Total quantity	Increase	Decrease.	Quantity per Train Mile.
IX (B) 3	1	Coal consumed		Tons 155	Tons 3,134	Tons 2,979	Tons	lbs 7 985
	2	Coke	do	1,526	2,474	948		6 303
	3	Patent fuel consumed	..	2,020	469		1,551	1 195
	4	Wood consumed	.	20,667	22,917	2,250		58 392
		Locomotives	Wheels coupled					Four wheels coupled.
			Weight on driving axle	14		Six wheels and four wheels coupled 10 18 to 12 35		8 74 to 13 25
			Total weight in steam, exclusive of tender			30 24		30 24

Locomotive Power—(Concluded.)

Reference to Revenue Account		Description.	Passenger.	Passenger.	Goods.	Tank.	Total.
Table and Main head	Sub head						
XII	..	1.—Number of Locomotives erected and made over to Locomotive Department ...	...	2	104	20	126
		2.—Average number of Locomotives constantly under repairs	...	2	22	3	27
		3.—Average number of Locomotives at work (1—2)	...	...	83	17	99
		4.—Train miles hauled by each class of Locomotives at work (3)	...	...	1,075,487	102,821	1,178,308
		5.—Average train miles hauled by each Locomotive at work (3)	...	...	..	...	
		Per half year ...	...	...	11,089	5,712	16,801
		Per day	...	...	191	104	295
		6.—Average speed between stations of trains { Passenger.	...	...	..	...	24
		Goods ..	..	...	...	...	16
		Mixed ...	...	...	...	...	17½
		7.—Average through speed of trains. { Passenger.	...	.	...	...	23
		Goods ..	..	...	...	..	14½
		Mixed ..	..	...	...	...	16
					Lbs.	Lbs.	Lbs
		8.—Weight of coal, etc., used per train mile { *To be separated, if possible, among the classes of Locomotives.*	...	..	27 15	9·52	24 09
		9.—Weight of wood used per train mile. {	...	...	70 21	55 20	70 22
		10.—Average gross weight of the trains hauled by each class of Locomotive	...	.	Not recorded.	...	...

TABLE G.

Carriage and Waggon Expenses.

Reference to Revenue Account		Details	2nd half of 1870	2nd half of 1871			
Table and Main head.	Sub-head		Total	Total	Increase.	Decrease	
XIV		Train Mileage (D I 1, pages 6-7)..	774,792	879,125	104,333	..	
		Vehicle Mileage { Coaching (M -I 8, page 13)	3,714,933	4,422 971	708,038	..	
		Goods (M -I 14, page 13)	5,714,774	9,084,024	3,369,250	...	
		Total..	9,429,707	13,506,995	4,077,288	...	

			2nd half of 1870	2nd half of 1871				
			Total	Total.	Increase.	Decrease	Cost per Train mile	Cost per 1,000 Vehicle miles
		General Superintendence—	Rs.	Rs	Rs.	Rs	As	Rs
IX (C) 1	1 & 2	Salaries of Superintendents and allowances	596	1,729	1,133	..	0 031	0 128
	3 to 5	Salaries of Foremen and allowances, including overtime	1,854	3,595	1,741	..	0 065	0 266
	6	Office expenses	1,782	1,826	44	..	0 033	0 135

Carriage and Waggon Expenses—(Concluded)

Reference to Revenue Account		Details.	2nd half of 1870	2nd half of 1871				
Table and Main head	Sub-head.		Total	Total	Increase	Decrease	Cost per Train mile	Cost per 1,000 Vehicles miles.
		Repairs and Renewals of Vehicles and Machinery—	Rs	Rs	Rs.	Rs	As.	Rs
2	1 to 3	Coaching Vehicles { Wages, including overtime	5,637	6,892	1,255	..	0 126	(a) 0 473
		Materials	6,639	7,672	1,033		0 140	(a) 0 527
	1 to 3	Goods Vehicles { Wages, including overtime	10,942	12,253	1,311	..	0 223	(b) 0 363
		Materials . .	16,045	21,538	5,493	.	0 392	(b) 0 637
		Cleaning and Oiling—						
3	1	Labour, including wages of Oilers, etc . .	6,314	7 087	773	...	0 129	0 525
	2	Stores ..	19,227	22,672	3,445	.	0 413	1 679
4	...	Unclassified Expenditure ..	...	..	...		...	
		Total	69,036	85,264	16,228	.	1 552	6 313

TABLE H

Traffic Expenses

Reference to Revenue Account		Details	2nd half of 1870	2nd half of 1871		
Table and Main head	Sub-head		Total	Total.	Increase	Decrease
XIV	..	Train Mileage (D —I 1, pages 6-7)	774,792	879,125	104,333	
		Vehicle Mileage { Coaching (M I 8, page 13)	3,714,933	4,422,971	708,038	.
		Goods (M—I 14, page 13) ...	5,714 774	9,084 024	3,369,250	.
		Total	9,429,707	13,506,995	4,077,288	

			2nd half of 1870	2nd half of 1871				
			Total	Total	Increase	Decrease	Cost per Train Mile	Cost per 1,000 Vehicle Miles
		Salaries, Wages, etc —	Rs	Rs	Rs	Rs	As	Rs.
IX. (D) 1	a (1 & 3)	General superintendence, including travelling allowances	32,031	25,321	.	6,710	461	1 875
	a (2 & 4)	Office Establishment and Contingencies	13,182	20,705	7,523	.	376	1 530
	b	Station Staff	96,998	1,14,523	17,525		2 084	8 479
	c	Train Staff	21,531	27,209	5,678	...	495	2 015
2	1 to 3	Fuel, Lighting, Water, and General Stores . .	29,407	43,501	14,094		792	3 221
3	...	Clothing	2,531	1,348		1,183	·025	100
4		Printing, Stationery, and Tickets	13,201	14,833	1,632		270	1 099
5		Cattle used for traffic purposes, and delivery and collection of goods	...	...	...			
6		Miscellaneous expenses	395	337		58	006	025
		Payments to other Lines—						
7	1	Hire of Vehicles	.	...				
	2	Mileage of foreign stock	1,351	1,065	..	286	020	079
	3	Expenses at joint stations		..	.			
8		Unclassified Expenditure .		.				
		Total	2,10,627	2,48,842	46,452	8,237	4 529	18 423

TABLE J.

General Charges.

Reference to Revenue Account.		Details	2nd half of 1870	2nd half of 1871			
Table and Main head	Sub head		Total	Total.	Increase.	Decrease	Cost per Train Mile
			Rs	Rs	Rs.	Rs.	As
IX (E) 1		Home Expenditure	5,515	9,726	4,211	...	177
	1	Salaries of Indian Management including office—Agent's Office, including travelling and other allowances	4,256	9,929	5,673		181
	2	Auditor's Office, do.	13,592	15,358	1,766		·279
	3	Account's Office, do	1,565	2,246	681		·041
2	4	Paymaster's Office, do.	6,067	8,426	2,359		·153
	5	Store Department, do	2,423	6,152	3,729		113
	6	Medical Department, do	6,826	9,087	2,261		·165
	7	Rents of buildings and lands	85	1,414	1,329		026
	8—10	Contingencies, Stationery, and Medicine	1,609	2,417	808		·044
3	.	Police *(total charges)*	8,731	10 004	1,273		·182
4	.	Advertising	85	481	396		009
5	1 to 4	Electric Telegraph—Salaries, etc.	13,721	17,947	4,226		·327
	5	Maintenance (wages and stores)	9,844	11,921	2,077		·217
6	.	Clearing accounts with other Lines	..	.	...		..
7	.	Unclassified Expenditure—Loss on Stores	110	.	..	110	...
		Total	74,429	1,05,108	30,789	110	1 913

TABLE K.

Steam Boat Service.

Reference to Revenue Account.		Details	2nd half of 1870	2nd half of 1871.		
Table and Main head.	Sub head		Total	Total.	Increase	Decrease.
IX (F) 1		Working vessels	..	...	...	...
2		Repairs ...				
3		Fuel				
4		Miscellaneous stores				
5	..	Steam Traffic Agencies				
6	..	Unclassified expenditure				
		Total	..	..	..	..

TABLE L.

Special and Miscellaneous Expenditure.

IX (G) 1	.	Law Charges	Rs 10,875	Rs 1,830	Rs ..	Rs 9,045
2	1	Compensation—For goods lost or damaged				
	2	For Personal injury	817	6	..	811
	3	For other claims	...	...	...	...
3	.	Rates and Taxes		750	750	..
4	1	Contributions to Special Funds—Fire Insurance Fund	75,719	29,083	.	46,636
	2	P W Renewal Fund	20,727	20,727	..	..
	3	Casualty Fund	.	..	..	..
		Total	1,08,138	52,396	750	56,492

ANALYSIS OF CARRYING COST.

TABLE M-I

Approximate weight of units adopted in these calculations

Coaching—(*Contd*)
- A horse ... cwt 8 75 = 0 4375
- A dog .. .. 0 20 = 0 0100

Goods—
- A head of horned cattle ... 5 00 = 0 2500
- A head of sheep, goats, etc . 0 50 = 0 0250

Definitions

The unit of Passenger Traffic is— passenger *plus* free luggage with free luggage 1 75 = 0 0875; 1 75 = 0 0875; 1 25 = 0 0625; 1 25 = 0 0625; for two and four- . 0 75 = 0 3375

TABLE M—I—(*Concluded*)

	Details.	Total Mileage of each description of Rolling Stock	Total Mileage of units of traffic.	Average contents in units of each Vehicle: No	Average contents in units of each Vehicle: Weight in tons	Average weight of Rolling Stock in tons	Total average weight including contents of each Vehicle in tons	Tons of vehicle and freight per ton of freight	Ton Mileage: Of freight	Ton Mileage: Of dead weight	Total Ton Mileage: Excluding Engines and Tenders and Brake Vans	Total Ton Mileage: Including Engines and Tenders and Brake Vans
	Miscellaneous for Stores carried free on Revenue Account											
18	For Traffic Department ...	199,730	..	5 958	5 958	5 863	11 820	1 983	1,190,000	1,170,713	2,360,000	...
19	„ Locomotive do.		‡690,000									...
20	„ Engineering do .		‡500,000									...
20 A	Total...	199,730		..		..			1,190,000	1,170,713	2,360,000	...
20 B	Engines and Tenders . ..	.						...	...	3,629,662	...	...
20 C	Brake Vans	8,705	.	.	*0 125	8 615	8 770	70 160	1,088	75,259	...	...
21	Total Miscellaneous Ton Mileage ..	.			.	.	...	..	1,191,088	3,875,634	2,360,000	5,066,062
23	Total Ton Mileage	.	...	.	...	...	...	...	...	..	...	178,455,315

* Assumed weight
† Horses 126,917
Cattle 67,002
Sheep ... 877,014
‡ Approximate

M-II

Division between Coaching and Goods of the Expenditure of Departments

Details.	Maintenance	Locomotive	Carriage and Waggon.	Traffic.	General	Special and Miscellaneous: Permanent Way Renewal Fund	Special and Miscellaneous: Other items.	Total.
	Rs	Rs	Rs	Rs	Rs	Rs	Rs.	Rs.
Expenses due to Coaching	1,28,851	2,47,284	25,714	78,756	47,999	..	17,511 5	5,46,115 5
Do due to Goods	3,11,986	2,92,459	56,692	1,61,751	56,768	.	20,710 5	9,00,366 5
Total	4,40,837	5,39,743	82,406	2,40,507	1,04,767		38,222	14,46,482

M-III

Distributed Cost of carrying the Vehicles of each Class including Freight.

Details	First Class Carriages	Second Class Carriages	Third Class Carriages	Fourth Class Carriages	Carriage Trucks	Horse Boxes	Luggage Vans.	Post Office Vehicles	Total Coaching Stock	Goods Vehicles	Cattle Vans	Mineral Trucks.	Total Goods Stock
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs.	Rs
Maintenance	13,121	20,285	64,780	6,546	1,785	8,147	7,716	6,471	1,28,851	3,09,665	2,321	..	3,11,986
Locomotive .	25,181	38,930	1,24,322	12,563	3,425	15,635	14,808	12,420	2,47,284	2,90,284	2,175	..	2,92,459
Carriage and Waggon . .	2,816	4,146	12,611	1,304	493	1,584	1,403	1,358	25,714	56,162	530	..	56,692
Traffic	8,626	12,698	38,624	3,993	1,508	4,851	4,298	4,158	78,756	1,60,238	1,513	.	1,61,751
General	5,257	7,739	23,541	2,434	919	2,956	2,619	2,534	47,999	56,237	531	.	56,768
Special and Miscellaneous {P W Renewal Fund . {Other items .	1,918	2,823	8,588	888	335	1079	956	924 5	17,511 5	20,516 8	193 7	..	20,710 5
Total .	56,919	86,621	2,72,466	27,728	8,464	34,252	31,800	27,865 5	5,46,115 5	8,93,102 8	7,263 7	..	9,00,366 5

M-IV.

Classified cost of working over one mile a Vehicle, including its freight; also total cost of carrying over one mile a unit of each description of Traffic.

Details.	First Class	Second Class	Third Class.	Fourth Class	Carriage Trucks	Horse Boxes.	Luggage Vans	Post Office Vehicles.	Goods Vehicles.	Cattle Vans	Mineral Trucks.
	PIES	PIES	PIES.	PIES	PIES	PIES	PIES	PIES	PIES	PIES	PIES.
Maintenance	5 200	5 461	5 734	5 604	4 045	5 742	6 138	5 821	6 607	5 243	.. ..
Locomotive	9 981	10 482	11 004	10 755	7 764	11 020	11 779	10 211	6 193	4 915	.. ..
Carriage and Waggon	1 116	1 116	1 116	1 116	1 116	1 116	1 116	1 198	1 198	1 198	.. ..
Traffic	5 419	8 419	8 419	8 419	8 419	8 419	8 419	8 419	8 419	8 419	.. ..
General	2 084	2 084	2 084	2 084	2 084	2 084	2 084	2 084	1 200	1 200	.....
Special and Miscellaneous { P W Renewal Fund	..	.	.	..	.	..	..	..	..	.	..
Miscellaneous { Other items	·760	760	760	760	·760	·760	760	760	438	·438	. ..
Total	22 560	23 322	24 117	23 738	19 188	24 141	25 296	22 911	19 055	16 413	.....
Cost per unit	12 400	4 824	988	1 066	23 710	21 760	29 914	..	5 824	18 146	.. ..

M-V.

Statement showing in comparison the receipts and the carrying cost per unit per mile of Coaching and Merchandize Traffic.

Details.	Average receipt per unit per mile.	Actual cost per unit per mile.	Profit per unit per mile.	Loss per unit per mile	Proportion per cent of profits to receipts
COACHING—					
	PIES	PIES	PIES	PIES	
1st Class	15 645	12 400	3 245	.. ..	20 741
2nd ,,	5 113	4 824	0 288	. ..	5 633
3rd ,,	2·947	0 988	1 959	.. ..	66 469
4th ,,	2 035	1 066	0 969	.	47 609
Carriages	25 364	23 710	1 653	...	6 517
Horses	14 647	21 760	...	7 113	.
Luggage	76 723	29 914	46 809	... ..	61 010
Post Office Vehicles	.. .	.. ...	.....	.....	.....
GOODS—					
Merchandize, including Government Stores and Railway materials	12 533	5 824	6 709	.....	53 528
Cattle	19 104	18 146	0 958	.....	5·014
Minerals	. .	. .	..	.....	.....

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

No 1.

ACCOUNTS FOR THE HALF-YEAR ENDING 31ST DECEMBER 1871.

Statement of Capital authorized and created

Contracts with the Secretary of State or other authority.	Capital authorized.			Capital created or sanctioned.			Balance.		
	Stock and Shares	Loans	Total.	Stock and Shares	Loans.	Total.	Stock and Shares.	Loans.	Total.
	£	£	£	£	£	£	£	£	£
Acts 16th Vict. Sessions 1852-53		...	..	.	...	..	...	...	..
14th June 1853	..	...	..		..	.	.	...	...
,, 17th ,, 14th ,, 1854		..	.			.	...	.	...
2nd June 1854	.			...	...	.	...	...	...
,, 18th ,, 2nd ,, 1854-55		..	..	.	.	.	...	...	...
15th June 1855		..	.		...	...		...	...
Contracts in respect of Share Capital.									
Viz 22nd December 1852 ...	500,000	...	500,000	500,000	...	500,000	...	...	...
,, 19th December 1855	3,500,000	..	3,500,000	3,500,000	..	3,500,000		.	.
,, 13th August 1858	1,000,000	...	1,000,000	1,000,000	..	1,000,000	...	...	...
,, 28th October 1867	2,500,000	...	2,500,000	2,500,000	.	2,500,000	...	...	.
,, In course of preparation for	828,300	...	828,300	828,300	...	828,300		..	
* *Contracts in respect of Loans on Debentures*									
Viz 13th March 1860		1,000,000	1,000,000	...	1,000,000	1,000,000	.	..	...
,, 28th October 1867		1,500,000	1,500,000	..	1,500,000	1,500,000	...	...	...
,, In course of preparation for .. .		171,700	171,700	..	171,700	171,700	.	...	...
Balance of Borrowing Powers authorized under the above Acts	...	2,630,883	2,630,883	..	...	.	...	2,630,883	2,630,883
* These comprise debentures that have been converted into stock amounting to £ 1,732,600	8,328,300	5,302,583	13,630,883	8,328,300	2,671,700	11,000,000	..	2,630,883	2,630,883
Capital to replace debentures paid off . . ,, 33,750									
1,766,350	...	.		1,766,350	1,937,700	171,350	...	...	..
Debentures paid off, but replaced as above .. 33,750									
Do paid off and not replaced . 171,350		...	...	10,094,650	734,000	10,828,650	...	..	...
205,100									
Total amount paid off and converted 1,937,700									

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No 2. *Statement of Stock and Share Capital created showing the proportion received.*

Description	Amount created.	Amount received.	Calls in arrears.	Amount uncalled.	Amount unissued.
	£	£	£	£	£
Capital Stock bearing interest at the rate of 4½ per cent. per annum guaranteed by the Secretary of State ...	500,000	.....	....	.....	.....
Do. at 5 per cent.	500,000	. ...	. ..	... ..	.....
Do at 4¾ ,, ...	1,000,000	.....	.....	.. ...	.. ...
Do at 5 ,, ...	8,094,650	...	.....	.....	.....
	10,094,650	9,427,854	7,435	653,481	5,880

No. 3 *Capital raised by Loans and Debenture Stock.*

	Raised by Loans		Raised by issue of Debenture Stock.	Total raised by Loans and by Debenture Stock.
	At 5 per cent.	At 4½ per cent		
	£	£	£	£
Existing at 30th June 1871	812,500	500,000	...	1,312,500
Do at 31st December 1871	234,000	500,000	...	734,000
Increase	...	...	...	...
Decrease	578,500	...	...	578,500
Total amount authorized to be raised by Loans and by Debenture Stock in respect of Capital created as per Statement No. 1				2,630,883
Total amount raised by Loans and by Debenture Stock as above				734,000
Balance being available borrowing powers at 31st December 1871				1,896,883

Dr. *Receipts and Expenditure on Capital Account* Cr.

	Amount expended to 30th June 1871	Amount expended during half year ending 31st December 1871	Total			Amount received to 30th June 1871	Amount received during half year ending 31st December 1871	Total.
To Expenditure —	£ s d	£ s d	£ s d	*By Receipts* —	£	£ s. d	£ s. d	£ s. d
On Line open for traffic	8,062,244 17 2	66,692 14 8	8,128,937 11 10	Shares and stock ℣ last statement..	8,752,837			
,, Line in course of construction ..	118,057 1 9	23,534 9 2	141,591 10 11	Add Debentures converted into 5 per cent Stock during half-year ending	575,100	9,327,937 0 0	99,917 0 0	9,427,854 0 0
,, Raichoor Station .	28,658 5 10	3,819 12 6	32,477 18 4	℣ Account No. 2 ...	.	..	.	
,, Rolling Stock	1,058,129 0 5	11,604 2 7	1,069,733 3 0	Loans				
,, Plant	1,851 14 11	180 8 4	2,032 3 3	℣ last statement	1313,700			
,, Establishment	36,018 19 6	15,777 18 2	51,796 17 8					
,, Contingencies ...	6,765 17 10	2,714 15 6	9,480 13 4	Deduct amount converted as above 575,100				
	9,311,725 17 5	124,324 0 11	9,436,049 18 4	Paid off during half year ending 31st December 1871 . 4,600				
					579,700	734,000 0 0		
Balance			725,804 1 8					
				℣ Account No 3		...		734,000 0 0
		Total ..	10,161,854 0 0		Total	10,061,937 0 0	99,917 0 0	10,161,854 0 0

No 5 *Details of Capital Expenditure.*

LINE OPEN FOR TRAFFIC—				Rs.	A.	P.
Earthwork				95,298	6	10
Brickwork and Masonry				2,70,730	7	11
Fencing				22,007	5	9
Permanent-way				22,080	13	3
Miscellaneous				10,888	14	11
Additional works				30,197	12	10
Telegraph Department				2,697	5	6
Maintenance for two years				2,05,736	8	0
Stations and Buildings				25,010	6	11
Bridge work				42,281	5	4
Ballasting and Permanent-way				1,161	11	0
Less credits as under				7,28,086	2	3
Bungalows			525	9	1	
Madras Terminal Station-and Perambore Works			3	8	0	
				529	1	1
						7,27,557 1 2
LINE IN COURSE OF CONSTRUCTION—						
Neilgherry Branch				1,30,982	3	4
Madras Central Station				1,25,757	5	1
						2,56,739 8 5
RAICHOOR STATION						41,668 10 5
ROLLING STOCK—						
Engines and Tenders				38,000	0	0
Carriages				46,915	12	10
Waggons				41,674	11	5
						1,26,590 8 3
PLANT—						
Engineering						1,968 2 8
ESTABLISHMENT—						
Direction				21,111	10	10
Engineering				91,949	15	4
Locomotive				16,503	15	7
Telegraph				5,747	7	6
Stores				14,348	11	10
Audit, Account, and Cashier				22,660	12	9
						1,72,122 9 10
CONTINGENCIES—						
Direction				28,532	3	6
Engineering				1,083	8	0
						29,615 11 6
Total Capital expenditure during the half-year						13,56,262 4 3

No 6 *Estimate of further Expenditure on Capital Account*

	During the half-year ending 30th June 1872	In subsequent half-years.	Total.
	Rs	Rs	Rs.
Line opened for Traffic more than two years	2,28,969	10,64,672	12,93,641
Line opened for Traffic less than two years	13,93,735	16,40,486	30,34,221

Proceedings of the Madras Government, Public Works Department, 2nd October 1872.

Estimate of further Expenditure on Capital Account —(Concluded)

	During the half-year ending 30th June 1872	In subsequent half-years	Total
	Rs	Rs.	Rs.
Line in course of Construction—			
Madras Central Station	1,61,735	80,867	2,42,602
Neilgherry Branch Line	3,42,666	684,909	10,27,575
Do Tudialore Station	9,530	9,530	19,060
Do Karamady ,,	14,158	14,158	28,316
Do. Coimbatore ,,	50,058	50,058	1,00,116
Do Pothanoor ,,	26,358	26,357	52,715
Do Mettapollium ,,	36,774	73,550	1,10,324
Do Telegraph	20,000	5,204	25,204
	6,61,279	9,44,633	16,05,912
	22,83,983	36,49,791	59,33,774
Working Stock—			
Engines No. 20	...	7,10,000	7,10,000
Horse Boxes ,, 10	34,725	...	34,725
Third Class Carriages ,, 35	53,686	..	53,686
Night Composite Carriages ,, 10	30,266	18,562	48,828
Goods Brake Vans ,, 6	6,280	18,720	25,000
High Sided Open Goods Waggons to be converted from Open Sided Goods Waggons ,, 292	22,728	68,189	90,917
Covered Goods Waggons to be converted from Coke Waggons ,, 50	14,428	19,688	34,116
Carriage Trucks to be converted from Open Sided Goods Waggons ,, 10	560	1,640	2,200
Fire Engine Trucks to be converted from Open Sided Goods Waggons ,, 2	600		600
Fittings Sun-shades to Vehicles ,, 133	6,879	9,148	16,027
,, Axle-box, keeps (Oil) to Waggons ,, 2,186	18,276	23,589	41,865
	1,88,428	8,69,536	10,57,964
Total estimated further expenditure of Capital	24,72,411	45,19,327	69,91,758

No 7 *Capital powers and other assets available to meet further expenditure as per Account No VI.*

Share and Loan Capital authorized or created but not yet received—

	£	£	s	d
Shares (No. II) calls in arrear	7,435			
Amount uncalled	6,53,481			
Amount unissued	5,880			
		666,796	0	0
Loans (No III)				
Available borrowing powers		1,896,883	0	0
Capital Account (No IV)				
Balance at credit thereof		725,804	1	8
Total ..		3,289,483	1	8

No. 8 *Dr.* *Revenue Account for the half-year ending 31st December 1871.* *Cr.*

Expenditure.	Amount.	Per cent. of Revenue.	Earnings.	Amount.
	Rs. A. P.			Rs. A. P.
To Maintenance of Way, Works, and Stations (Abstract A.)	4,74,841 5 4	14 82	By Coaching Traffic (Abstract II) ...	11,42,374 7 1
,, Locomotive Expenses (Abstract B). ...	5,96,825 2 4	18 63	,, Goods Traffic (Abstract I) ...	19,35,915 13 0
,, Carriage and Waggon Expenses (Abstract C.) ...	85,263 13 10	2·66	,, Electric Telegraph Earnings ...	8,949 4 10
,, Traffic Expenses (Abstract D) ...	2,48,842 6 4	7 77	,, Sundries (Abstract K.) ...	1,16,794 5 6
,, General Charges (Abstract E.) ...	1,05,107 14 6	3 28		
,, Special and Miscellaneous Expenditure (Abstract G.)	52,395 12 0	1 63		
	15,63,276 6 4	48 79		
,, Balance Net Earnings	16,40,757 8 1	51 21		
Total...	32,04,033 14 5	100 00	Total ..	32,04,033 14 5

ABSTRACT A.

No. 9 *Maintenance of Way, Works, and Stations.*

	Rs. A. P.	Rs A. P.
1ST.—SALARIES, OFFICE EXPENSES, AND GENERAL SUPERINTENDENCE.		
(1.)—Engineers' salaries	27,257 2 11	
(2)—Allowances, including travelling expenses of all kinds	4,786 9 11	
(3)—Subordinate Superintendents	14,166 4 2	
(4)—Allowances of do.	946 11 0	
(5.)—Overtime allowances	...	
(6)—Office expenses	11,043 4 0	
		58,200 0 0
2ND —MAINTENANCE AND RENEWAL OF PERMANENT-WAY.		
(1)—Wages	1,31,508 5 2	
(2.)—Materials	1,28,150 1 9	
		2,59,658 6 11
3RD —REPAIRS OF BRIDGES, ETC.—*Wages and Materials.*		
(1)—Bridges and Tunnels	1,19,101 13 10	
(2)—Miscellaneous, including earth-work, roads, fencing, etc.	22,088 0 2	
		1,41,189 14 0
4TH.—REPAIRS OF STATIONS AND BUILDINGS—*Wages and Materials.*		
(1.)—Repairs of buildings of every description, including station-yards and signals, but excepting quarters of the staff	23,860 2 10	
(2)—Repairs of staff quarters	5,725 15 2	
		29,586 2 0

Maintenance of Way, Works, and Stations—(Concluded.)

5TH —UNCLASSIFIED EXPENDITURE.	Rs. A P	Rs. A P.
(1)—Plantations	. ...	
(2)—Tools and Plant	7,771 6 5	
(3)—Loss on Stores, etc.	366 5 9	
		8,137 12 2
Total .	. . .	4,96,772 3 1
Deduct sum chargeable to Capital per G O. No 45 of 9th January 1872	.....	21,930 13 9
Total...	.. .	4,74,841 5 4

Miles maintained.	Departmentally. Average.	By Contract.	Total Average
Railway Line.... Double .. .	. . .	.....	...
Railway Line.... Single	702¼	. ....	702¼
Sidings	80 7/12	. ...	80 7/12
Total ..	.. ...	.....	782⅔

ABSTRACT B.

Locomotive Expenses.

1ST.—GENERAL SUPERINTENDENCE.	Rs. A. P.	Rs. A P
(1)—Salaries of Locomotive Superintendent and Assistants	11,159 12 6	
(2)—Allowances of do, including travelling allowances	744 5 7	
(3)—Subordinate Superintendents	19,143 10 2	
(4)—Allowances of do, including travelling allowances	4,994 2 0	
(5)—Overtime allowances	1,211 5 7	
(6)—Office expenses	12,849 14 10	
		50,103 2 8
2ND —RUNNING EXPENSES—(*Wages connected with the working of Locomotive Engines*)		
(1.)—Wages of Drivers and Firemen	72,815 0 6	
(2)—Overtime allowances	16,513 4 9	
(3)—All labour connected with fueling, cleaning, and looking after engines in yards	16,702 12 8	
(4)—Contingent expenses, including clothing and travelling expenses	401 15 5	
		1,06,433 1 4
3RD —FUEL		
(1)—Coal ... . . Cwts 62,687 15/112	72,090 3 0	
(2)—Coke .. . ... ,, 49,480 104/112	81,643 8 7	
(3)—Patent fuel ... . ,, 9,389 12/112	13,144 12 1	
(4)—Wood .. .. lbs. 51,334,421	1,02,668 13 5	
		2,69,547 5 1
4TH —WATER—(*including Wages and Stores*)	..	14,416 6 1
5TH —OIL, TALLOW AND OTHER STORES EXPENDED ON ENGINES IN WORK.	.	12,761 5 4
6TH.—MAINTENANCE AND RENEWALS OF LOCOMOTIVE ENGINES AND MACHINERY.		
(1)—Wages	75,524 10 8	
(2)—Overtime allowances	2,375 8 7	
(3)—Materials	65,663 10 7	
		1,43,563 13 10
Total ..	. .	5,96,825 2 4

ABSTRACT C.

Carriage and Waggon Expenses.

1ST.—GENERAL SUPERINTENDENCE.				RS.	A.	P.	RS. A. P.
(1)—Salaries of Superintendent and Assistants ..				1,624	5	4	
(2.)—Allowances, including travelling				105	6	5	
(3)—Subordinate Superintendents				2,720	5	6	
(4)—Allowances of do, including travelling ...				700	14	6	
(5)—Overtime allowances				173	9	1	
(6)—Office expenses				1,825	12	2	
							7,150 5 0
2ND.—REPAIRS AND RENEWALS OF VEHICLES AND MACHINERY							
Coaching Vehicles—(1)—Wages ..	6,672	1	11				
(2)—Overtime	219	12	9				
(3)—Materials	7,671	12	8				
				14,563	11	4	
Goods Vehicles—(1.)—Wages ..	12,003	3	11				
(2.)—Overtime	250	1	9				
(3)—Materials	21,538	0	10				
				33,791	6	6	
							48,355 1 10
3RD—CLEANING CARRIAGES AND WAGGONS AND OILING.							
(1.)—Labour, including wages of Oilers, Carriage Cleaners, and Examiners				7,086	10	6	
(2)—Stores, including oil, grease, and other stores for consumption on running vehicles ...				22,671	12	6	
							29,758 7 0
Total .				.....			85,263 13 10

ABSTRACT D.

Traffic Expenses.

1ST.—SALARIES, WAGES, ETC.				RS.	A.	P.	RS. A P.
(a)—General Superintendence—							
(1)—Traffic Manager, Assistant do, District Superintendents and Traffic Canvassers ..	22,234	0	5				
(2)—Office establishment	11,496	11	8				
(3)—Travelling allowances .. .	3,086	15	6				
(4)—Contingencies	9,207	13	9				
				46,025	9	4	
(b.)—Station Staff—							
(1)—Station Masters, Clerks, Porters, Pointsmen, Gatekeepers of level crossings, Signalmen, Station Servants, etc, ...				1,14,523	1	1	
(c)—Train Staff—							
(1)—Guards and Assistant Guards .	27,173	0	6				
(2.)—Overtime allowances	35	10	11				
				27,208	11	5	
							1,87,757 5 10
2ND—FUEL, LIGHTING, WATER, AND GENERAL STORES							
(1.)—Fires, Lights, Water and General Stores for Carriages, Stations, Offices, etc.				19,383	2	4	
(2)—Waggon covers, ropes etc				23,442	5	7	
(3)—Office and station fittings and furniture ...				676	1	7	
							43,501 9 6

Traffic Expenses.—(Concluded)

				RS. A P	RS A. P
3RD—CLOTHING				. ..	1,348 12 11
4TH—PRINTING, STATIONERY, AND TICKETS				.. .	14,832 14 5
5TH—CHARGES FOR DELIVERY AND COLLECTION OF GOODS, ETC.				.. . .	... .
6TH—MISCELLANEOUS EXPENSES				. ...	337 0 0
7TH.—PAYMENTS TO OTHER LINES					
(1)—Hire of vehicles				. . .	
(2)—Mileage of foreign stock				1,064 11 8	
(3)—Expenses at joint stations				.. ..	
					1,064 11 8
Total				. .	2,48,842 6 4

ABSTRACT E.

General Charges

				RS A P	RS. A P
1ST—HOME EXPENDITURE.					
(1)—Directors and Secretary				8,907 12 11	
(2)—Auditors and Accountants					
(3)—Consulting Engineer and Inspecting Officers' fees and travelling allowances				818 2 11	
(4)—Office expenses				...	
					9,725 15 10
2ND—SALARIES OF INDIAN MANAGEMENT, INCLUDING OFFICES					

	Salaries.			Travelling Allowances			Contingencies	
	RS	A	P	RS.	A.	P		
(1)—Agent's Office .	9,907	15	4	21	1	4	.	9,929 0 8
(2)—Auditor's do .	15,262	3	4	95	4	0	. . .	15,357 7 4
(3)—Account do ...	2,221	14	9	24	2	4	.. ...	2,246 1 1
(4)—Paymaster's (Cashier's) Office	7,985	14	3	440	2	9		8,426 1 0
(5)—Store Department	6,092	6	3	60	1	3	...	6,152 7 6
(6)—Medical do ...	9,085	5	4	2	0	0	..	9,087 5 4
(7)—Rents of buildings and lands								1,414 0 5
(8)—Contingencies, including furniture and fittings								1,711 1 9
(9)—Stationery								678 8 2
(10)—Medicine								27 4 10
								55,029 6 1
3RD—POLICE								
(1)—Supervision								1,230 0 0
(2)—Constables								7,046 11 1
(3)—Contingencies								1,727 2 8
								10,003 13 9
4TH.—ADVERTISING—(*All Advertisements of all Departments*)								. 480 15 4
5TH—ELECTRIC TELEGRAPH								
(1)—Salaries of Superintendents and Assistants								4,432 3 8
(2)—Signallers								11,537 3 0
(3)—Travelling expenses								854 6 6
(4)—Office expenses, contingencies, etc.								1,122 14 1
(5)—Maintenance, Wages, Stores								11,921 0 3
								29,867 11 6
6TH—CLEARING ACCOUNTS WITH OTHER LINES								. .. .
7TH—UNCLASSIFIED EXPENDITURE.								
Loss on stores, etc.								... . . .
Total ..								1,05,107 14 6

		Rs.	A.	P.	Rs.	A.	P.
1st.—Law Charges	... ...	.....			1,829	9	5
2nd.—Compensation.							
(1.)—For goods lost or damaged.	From Revenue Funds ...	5	9	7			
	From Fire Insurance do. ...	0	0	0			
(2.)—For personal injury ...	... ...				5	9	7
(3.)—For other claims .	... ...	.....					
		750	0	0			
3rd.—Rates and Taxes—(*including Municipal Water-rates*) ...		.....			755	9	7
4th.—Contributions to Special Funds.					29,083	4	8
(1.)—Fire Insurance Fund		.....			20,727	4	4
	Total...	.....			52,395	12	0

Abstract G.

Special and Miscellaneous Expenditure.

No 10.

Abstract H.

Coaching Traffic.

Mileage Fares {Day / Night .	First Class Rs A P 0 1 6 / 0 1 10		Second Class Rs. A. P 0 0 5 / 0 1 0		Third Class Rs A. P 0 0 3		Fourth (Cooly) Class. Rs A P 0 0 2		Total.	
	No	Amount	No	Amount.	No	Amount	No	Amount	No.	Amount.
1st.—PASSENGERS—		Rs A P		Rs A P		Rs A P		Rs A P		Rs. A P
Single journeys	2,938	48,327 5 6	56,446	78,661 10 0	894,561	7,26,291 0 0	133,778	52,923 11 0	1,087,723	9,06,206 10 6
Excess fares	77	299 1 0	514	452 9 0	8,087	2,208 15 8	..	. ..	8,678	2,960 9 8
Return journeys ...	2,494	22,435 1 0	4,072	8,849 11 0	73,734	55,417 1 1	...	. . .	80,300	86 701 13 1
Troops and Police	86	754 3 0	494	3,826 9 0	9,610	28,174 8 0	..	. .	10,140	32,755 4 0
Total .	5,545	71,815 10 6	61,526	91,790 7 0	985,992	8,12,094 8 4	133,778	52,923 11 0	1,186,841	10,28,624 4 10
Season Tickets .	1	80 0 0			.	. ..	.	. ..	1	80 0 0
2nd.—PASSENGERS' LUGGAGE									Ton Miles 62,170	18,512 12 2
3rd.—MILITARY BAGGAGE									19,909	5,711 13 2
4th.—CARRIAGES, HORSES, DOGS, etc.—									No	
(1.)—Carriages									352	9,054 5 0
(2.)—Horses									1,205	20,696 10 0
(3.)—Dogs									1,362	2,010 3 0
										31,761 2 0
5th.—MILITARY CARRIAGES, HORSES, etc.—										
(1.)—Horses									150	2,359 1 0
(2.)—Dogs									60	38 4 0
										2,397 5 0
6th.—PARCELS									84,990	47,121 1 0
7th.—SPECIAL TRAINS									Train Miles 1,011	6,771 10 0
8th.—POST OFFICE										
(1.)—Parcels									.	1,894 6 11
								Total ..	..	11,43,374 7 1

ABSTRACT I.

Goods Traffic.

	Rate per Ton per Mile.	Ton Miles.	Amount.
			Rs. A. P.
1ST —MERCHANDIZE, GENERAL.			
1st Class	12 Pies ..	17,588,569	8,10,164 7 10
2nd ,, ...	14 ,, ..	3,988,110	2,94,062 14 2
3rd ,, ...	18 ,, .	2,712,555	2,42,988 3 10
4th ,, ...	24 ,, ..	1,883,552	2,39,254 12 3
5th ,, ...	36 ,, ..	1,305,144	2,34,804 10 10
Special	8 ,, ...	1,562 383	61,143 10 8
		29,040,313	18,81,418 11 7
2ND —MILITARY STORES	....	108,018	15,503 8 0
3RD —RAILWAY MATERIALS FOR CONSTRUCTION ...	....	289,867	24,701 6 0
4TH —MINERALS.			
(1)—For the Public	.....	...	.. ..
(2)—For the Company (Construction only) ...	.....	...	.. ..
		...	. . ..
5TH —LIVE STOCK.			
(1)—Horses	.....	9,480	1,064 10 0
(2)—Cattle	.. .	14,535	1,640 15 0
(3)—Sheep	... .	4,196	791 5 0
		28,211	3,496 14 0
6TH —MILITARY LIVE STOCK.			
(1)—Horses	.. ...	46,000	4,071 2 0
(2)—Cattle	.....	262	79 4 0
(3)—Sheep	.....	...	. .. . ..
		46,262	4,150 6 0
7TH —RENTS AND DEMURRAGE, WHARFAGE, STORAGE, ETC.	.....	...	5,156 3 0
8TH —INTEREST ON OUTSTANDING BILLS		...	1,398 12 5
Total ..	...	..	1,935,915 13 0

ABSTRACT K.

Sundries.

	Amount Rs A. P.
Interest on Revenue balances deposited with Government	13,413 3 0
Hire of Locomotives	56,177 11 6
Hire of Vehicles	. ...
Mileage of Vehicles and Sheets over foreign Lines...	2,858 5 1
Use of Stations jointly occupied	6,257 4 3
Clearing accounts with other Lines	... ...
Tolls on Bridges	... .
Rents of Dwelling-houses	28,339 15 2
,, Refreshment-rooms	5,422 0 0
Fees on share transfers, etc.	... ...
Sale of unclaimed and damaged Goods	760 10 9

Sundries.—(Concluded.)

Sale of Revenue Stores—	Rs A. P.		
(1.)—Maintenance	241 10 11		
(2.)—Locomotive	904 3 9		
(3.)—Carriage and Waggon	.. ..		
(4.)—Traffic	2,077 12 1		
(5)—General	341 9 0		
		3,565 3 9	
Total ..		1,16,794 5 6	
Electric Telegraph Earnings		8,949 4 10	

No 11. *Fire Insurance Fund*

	Rs A. P.		Rs A P
To Amount paid for loss by fire as per Revenue Account	. .....	By Balance in hand on 30th June 1871 ...	2,85,897 6 10
To Balance in hand on 31st December 1871	3,08,440 9 4	Interest on Government Paper less debits for commission, etc.	1,815 14 2
Government Paper of 5 per cent Loan for Rs. 2,65,800 ... 2,84,088 9 11		Contribution for half-year as per Abstract G.	20,727 4 4
Cash 24,351 15 5			
Total...	3,08,440 9 4	Total...	3,08,440 9 4

Statement of Engine and Rolling Stock.

Description		Total Stock authorized up to 31st December 1871	Total Stock constructed against authorization up to 30th June 1871.	Additions to Stock during the half-year 31st December 1871	Total Stock constructed up to 31st December 1871.	Actual Stock running on 31st December 1871	Repairs and Renewals: Total number of Vehicles renewed during the half-year 31st December 1871	Total number of Vehicles repaired during the half-year 31st December 1871	Total number of Vehicles undergoing renewal on 31st December 1871.	Total number of Vehicles undergoing repairs on 31st December 1871	Average number undergoing repairs and renewals at any one time
Engines	Tank	20	20	...	20	8	...	...	...	...	27
	Passengers ..	2	2	...	2	2	...	...	...	...	
	Goods ..	104	104	...	104	43	...	6	...	...	99
Vehicles.	Sleeping Carriages	4	4	...	4	4	...	...	...	...	
	Saloon	23	15	...	15	15	...	18	...	...	
	First Class	57	55	...	55	54	...	51	...	1	
	Second	5	...	...	...	...	...	...	...	...	
	,, .. ,, with brakes ..	207	146	...	146	141	...	101	...	5	
	Third .. ,, with brakes ..	80	80	...	80	80	...	24	...	1	
	,, .. ,, with brakes ..	2	2	...	2	2	...	1	...	...	
	,, .. ,, upper storied	31	26	...	26	24	1	29	...	4	
	Composite Carriages	16	6	...	6	6	...	9	...	...	
	Night Composite Carriages ..	25	25	...	25	25	...	...	...	...	
	Cooly Class or Covered Carriages	50	50	...	50	50	...	17	...	...	
	Open Goods Waggons ..	80	803	...	803	802	1	943	1	59	
	Open Sided Goods Waggons .	2,152	1,860	...	1,860	1,861	...	3	...	1	
	High Sided Open Goods Waggons	5	5	...	5	4	10	11	...	...	
	High Open Goods Waggons ..	293	244	...	244	244	...	143	...	12	
	Ballast Waggons	360	410	...	410	398	...	6	...	...	
	Coke ,, ...	7	7	...	7	6	...	8	...	1	
	Road ,, ...	35	35	...	35	34	...	15	...	1	
	Cattle ,, ...	25	23	...	23	14	...	20	...	6	
	Road Brake ,, ..	75	23	...	23	26	...	1	...	1	
	Covered Goods Waggons ..	80	20	...	20	19	...	41	...	2	
	Carriage Trucks	150	144	...	144	143	8	...	...	...	
	Timber ,, ...	...	6	...	6	6	...	...	...	...	
	Platform ,, ...	...	25	...	25	25	...	15	...	...	
	Passenger Luggage Vans ..	25	41	19	60	56	...	21	...	...	
	Goods Brake	69	3	...	3	3	...	6	...	...	
	Gun Powder ,, ...	3	3	...	3	3	...	4	...	...	
	Oil Store ,, ...	3	4	...	4	4	...	...	...	...	
	Water Trucks with tanks ..	4	1	...	1	1	...	1	...	...	
	Engineers' Inspection Carriage with brake	1	4	...	4	4	1	...	...	...	
	Travelling Cranes on Trucks ..	4	40	...	40	38	...	36	...	3	
	Horse Boxes	50	...	...	...	...	...	...	...	...	
	Fire Engine Trucks	2	...	...	...	...	...	...	...	...	
	Total .	3,898	3,689	19	3,708	3,521	16	1,536	1	105	126

No. 13. *Mileage Statement.*

	M.	CHS	L.
Lines owned by Company, sanctioned not commenced ...	...		
Do do. under construction	26	7	0
Do. do constructed and not worked ..	...		
Do do do and worked by Company	831	57	93
Do do. do do. by others ..	...		
Total ..	857	64	93
Lines worked by Company—			
Its own	831	57	93
Foreign	.		
Total	831	57	93
Foreign lines worked over by Company	...		

No 14 *Statement of Train Mileage.*

		No	Estimated Locomotive Expenses.
			RS
1	Train miles run for Traffic Department	928,252	4,70,072
2.	Do for Locomotive ,, ...	14,304	7,244
3	Do for Maintenance ,, ...	37,485	18,983
	Total ...	980,041	4,96,299
4.	Hours of assisting engines	7	39
5	Do of shunting, piloting, etc	20,829	93,815
6	Do. of miscellaneous services	2,326	6,550
	Total ...	23,162	1,00,404
	Total cost . .	. . . .	5,96,703

No 15 *Distribution Statement of Audited Salaries*

Departments	Capital.			Revenue			Total audited		
	RS	A	P	RS	A	P	RS	A	P
Home expenditure	24,373	6	9	9,725	15	10	34,099	6	7
Engineering	90,119	2	10	53,809	10	9	1,43,928	13	7
Locomotive	15,226	4	0	72,924	14	11	88,151	2	11
Carriage and Waggon				1,86,129	9	9	1,86,129	9	9
Traffic	16,848	12	1	9,068	8	9	25,917	4	10
Agency	6,613	10	4	15,357	7	4	21,971	1	8
Audit	4,171	5	1	2,246	1	1	6,417	6	2
Account	10,983	5	5	8,426	1	0	19,409	6	5
Paymaster (Cashier)	13,073	15	10	6,152	7	6	19,226	7	4
Store	2,054	14	7	9,087	5	4	11,142	3	11
Medical	862	14	6	8,276	11	1	9,139	9	7
Police	3,844	3	5	21,494	0	6	25,338	3	11
Electric Telegraph									
Total..	1,88,171	14	10	4,02,698	13	10	5,90,870	12	8

No. 16.

Statement of Net Profits for half-year ending 31st December 1871.

	Rs	A	P.		Rs	A	P
To Balance outstanding from last Account .	8,646	0	8	By Traffic earnings paid to Government during half-year ending 31st December 1871 .	30,12,400	10	1
To gross earnings as per Revenue Account ...	32,04,033	14	5	Deduct earnings paid in during July and August 1871 taken to account in the half-year ending 30th June 1871	1,55,867	11	8
					28,56,532	14	5
				Add earnings of this half-year paid in during January and February 1872	3,20,851	13	8
				Do. Interest due by Government for this half-year	13,413	3	0
					3,34,265	0	8
				Balance, i. e., traffic earnings up to 31st December 1871, unrealized on the 1st of March 1872.	31,90,797	15	1
				Traffic Department	.....	.....	.....
				Rents	6,696	14	7
				Great Indian Peninsula Railway... ...	1,195	10	1
					14,989	7	4
				Total ..	21,882	0	0
Total ...	32,12,679	15	1		32,12,679	15	1
				Balance being net profits for the six months ..	16,27,521	8	9

Traffic receipts paid to Government, as per above statement 31,90,797 15 1
Deduct working expenses as per Revenue Account 15,63,276 6 4

(Signed) J CRAMP, *Chief Accountant*

(Signed) F. CHURCH, *Chief Auditor.*

(Signed) J. W. MELLIS, for *Agent and Manager.*

Examined and found correct.

(Signed) C M MOBERLY, Captain, *Government Examiner.*

Approved and passed.

(Signed) H. L. PRENDERGAST, Major, R.E., *Acting Consulting Engineer to Government.*

Proceedings of the Madras Government, Public Works Department,
2nd October 1872.

No. 17.

Dr. *Net Revenue Account* Cr.

	£	s.	d.		£	s.	d.
To guaranteed interest (gross) received from the Secretary of State for the half-year ending 31st December 1871, as under—				By Net Profits of the half year as per Form No 16			
				Rs 16,27,521 8 9 at 1/10 Exchange	149,189	9	6
On subscribed capital	£	s.	d	By Balance	100,760	2	11
£ 7,927,060 at 5 per cent	197,850	6	8				
£ 999,970 at 4½ „	23,749	5	9				
£ 500,000 at 4½ „	11,250	0	0				
	232,849	12	5				
On Debentures.							
£ 234,000 at 5 per cent	5,850	0	0				
£ 500,000 at 4½ „	11,250	0	0				
	17,100	0	0				
Total	249,949	12	5	Total	249,949	12	5

No. 18

Dr. *General Balance Sheet, Indian Books* Cr

	Rs	A	P		Rs	A.	P
To Capital Account	45,84,134	5	11	By Cash at Bank of Madras	2,99,802	15	8
„ Government of India Revenue Account	3,49,386	13	10	„ Cashier and other Officers ...	97,269	5	11
				„ Sundry Debtors	3,55,435	13	11
„ Fire Insurance Funds as per Form No 11	3,08,440	9	4	„ Government Securities ..	2,84,088	9	11
„ Sundry Creditors	1,38,587	10	9	„ Stores as under—			
				General store account	9,76,560	15	4
				Locomotive „	20,49,695	1	7
				Engineering „	11,43,476	10	5
				Traffic „	15,864	2	1
				Stores in transitu, etc.	1,68,355	13	0
					42,93,952	10	5
Total .	53,30,549	7	10	Total	53 30,549	7	10

Certificate respecting the permanent-way, etc.

I HEREBY certify that the whole of the Company's Permanent-way, Stations, Buildings, Telegraph, Fencing, etc., have during the past half-year been maintained in good working condition and repair.

(Signed) B. ANDERSON,
Chief Engineer.

8*th February* 1872.

Certificate respecting the Rolling Stock.

I HEREBY certify that the whole of the Company's Plant, Engines, Tenders, Carriages, Waggons, Machinery, and Tools have during the past half-year been maintained in good working order and repair.

(Signed) W. B. WRIGHT,
Locomotive Superintendent.

10*th February* 1872.

I HEREBY certify that the Certificates given above by the Railway Officials are correct.

MADRAS, (Signed) H. L. PRENDERGAST, Major, R.E.,
15*th March* 1872. *Acting Consulting Engineer for Railways.*

List of Rates and Fares.

Troops and Police—Troops.—Officers on duty pay second-class fare for first-class accommodation, and Non-Commissioned Officers and Soldiers travel second class on payment of the lowest fare.

Police.—Policemen are conveyed on payment of the ordinary fares.

Special Trains.—Special trains are run at a charge of 3 Rupees a mile when consisting of an engine, a carriage, and brake-van only. When more accommodation than this is required, the extra passengers are conveyed at ordinary fares.

Cattle.—Cattle sent singly will be charged for at the rate of 1½ Annas per mile. Sheep in waggon loads of fifty or any less number, and cattle for slaughter in waggon loads of eight or less any number will be conveyed as under:—

	Per Truck per Mile. RS A. P.
From 1 to 50 miles ..	0 2 6
Do 51 to 100 ,,	0 2 3
Do 101 to 150 ,,	0 2 0
Do. 151 miles and upwards	0 1 9

Sheep sent singly are charged for at the rate of 8 Annas for distances not exceeding 50 miles, 1 Rupee for distances from 51 to 100 miles, and 4 Annas additional for every 50 miles or portion of 50 miles above 100 miles. Dealers' horses are conveyed in waggons by "Goods" train at 3 Annas per mile per truck load of five or any less number.

LIST OF MADRAS RAILWAY RATES AND DISTANCES FROM ERODE STATION.

For Goods.

The "Great Southern of India Railway" and "Madras Railway Classification of Goods."

For Parcels

Distance	10 lbs and under.	11 to 20 lbs	21 to 40 lbs.	41 to 80 lbs	81 to 100 lbs	101 to 125 lbs	126 to 150 lbs.	151 to 200 lbs	201 to 250 lbs.
	PS A	RS A	RS A	RS A.	RS A	RS A	RS A	RS A.	RS A.
1 to 50 miles	0 4	0 6	0 8	0 12	1 2	1 8	1 14	2 4	2 10
51 to 100 ,, . .	0 6	0 9	0 12	1 2	1 10	2 2	2 10	3 2	3 10
101 to 150 ,,	0 8	0 12	1 0	1 8	2 2	2 12	3 6	4 0	4 10
151 to 200 ,, .	0 10	0 15	1 4	1 14	2 10	3 6	4 2	4 14	5 10
201 to 250 ,,	0 12	1 2	1 8	2 4	3 2	4 0	4 14	5 12	6 10
251 to 300 ,,	0 14	1 5	1 12	2 10	3 10	4 10	5 10	6 10	7 10
301 to 350 ,, .	1 0	1 8	2 0	3 0	4 2	5 4	6 6	7 8	8 10
351 to 400 ,, .	1 2	1 11	2 4	3 6	4 10	5 14	7 2	8 6	9 10

For Ice, Fish, Meat, and Vegetables

Distance	10 lbs and under	11 to 20 lbs	21 to 40 lbs	41 to 80 lbs	81 to 100 lbs	101 to 125 lbs	126 to 150 lbs	151 to 200 lbs	201 to 250 lbs
	RS A	RS A	RS A	RS A	RS A	RS A	RS A	RS A	RS A
1 to 50 miles . ..	0 3	0 5	0 6	0 9	0 12	0 15	1 2	1 8	2 0
51 to 100 ,,	0 5	0 6	0 8	0 12	0 15	1 2	1 5	1 14	2 7
101 to 200 ,,	0 8	0 9	0 12	1 2	1 4	1 7	1 10	2 7	3 0
201 to 300 ,,	0 9	0 12	0 15	1 5	1 8	1 11	1 14	3 0	3 11
301 to 400 ,, ...	0 11	0 15	1 2	1 8	1 13	2 0	2 2	3 9	4 4

Packages weighing more than 250 lbs. to be charged for in proportion to the rates for 250 lbs.

For Passengers' Luggage.

First Class	82 lbs. free.
Second ,, ...	25 ,, ,,
Third ,, ...	15 ,, ,,

All luggage in excess of these quantities (whether in the owner's charge or not) 2 Pies per 82 lbs. per mile.

For Horses, Carriages, and Dogs.

One Horse	1½ Annas per mile
Two Horses (if one property)	2¼ ,, per ,,
Three Horses (do.)	3 ,, per ,,
Four-wheeled carriage	2¼ ,, per ,,
Two ,, ,, ...	1½ ,, per ,,
Palanquin ,, ...	1 Anna per ,,

Dogs.

	RS A P.
1 to 50 miles	0 8 0 each.
51 to 100 ,, ...	1 0 0 ,,
101 to 150 ,, ...	1 4 0 ,,
151 to 200 ,, ...	1 8 0 ,,
201 to 250 ,, ...	1 12 0 ,,
251 to 300 ,, ...	2 0 0 ,,
301 to 350 ,, ...	2 4 0 ,,
351 to 100 ,, ...	2 8 0 ,,

No. 18. ORDER THEREON, 2nd October 1872, No. 2,311.

RAILWAY, No. 2.

ORDERED that these papers be forwarded to the Government of India.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E,

Secretary to Government.

No. 19. (DOCKET No. 2,312, dated 2nd October 1872.)

COPY of the above forwarded to the Government of India.

(True Extract)

Colonel, R.E.,

Secretary to Government.

Exd E C Shunker.

that the distinction between Passengers, Goods, and Mixed trains is made for the first time in this return; the Loco.- motive expenses and General expenses have accordingly been divided between coaching and goods in proportion to the train mileage, instead of, as heretofore, the ton mileage: the result is that the goods traffic is debited with a smaller and the passenger traffic with a larger share of the joint expenses.

I have the honour to be

Sir

Your most obedient servant

Madras
13th September
1872

Lieut. Colonel, R.E.,
Consg. Engineer for Railways

Madras Railway.

Table A

General Statement of Working of half year ending 31st December 1871.

Traffic			Passengers or tons of Goods carried: Number	Percent of total number and total tonnage	Earnings: Amount	Percent of total earnings from each class of traffic	Amount of total earnings contributed by each class of traffic
					Rs.		
Coaching	Passengers	1st Class	5,469	·046	71,896	6·29	35·86
		2nd	61,012	5·18	91,790	8·03	
		3rd	9,17,905	87·00	8,12,094	71·10	
		Int.	1,83,778	11·36	52,924	4·63	
	Miscellaneous Earnings				113,670	9·95	
	Total		11,78,164	100·00	17,42,374	100·00	
Goods	General Merchandize	Special	Tons 8,071	4·26	61,144	3·76	60·42
		1st Class	1,09,527	60·58	8,10,164	49·85	
		2nd	27,142	15·01	2,93,063	18·14	
		3rd	15,153	8·38	2,42,998	12·55	
		Int.	8,961	4·96	2,39,255	12·34	
		Int.	6,557	3·63	2,34,805	12·13	
	Government Stores		2,117	2·28	16,694	0·81	
	Railway Material		1,274	0·70	24,701	1·27	
	Animals						
	Miscellaneous Earnings				14,203	0·75	
	Total		180,802	100·00	19,35,916	100·00	
Miscellaneous, including electric telegraph, steam boat and sundries					125,743		3·93
Grand Total					32,04,033		100·00
Less outstandings irrecoverable					JB		
Grand Total					32,04,033		

Financial Results	Coaching: Total	Coaching: Per Passenger train mile	Coaching: Per Passenger mile	Goods: Total	Goods: Per Goods train mile	Goods: Per Ton mile	Total Earnings	Total (including miscellaneous) less expenses allotted to traffic (excluding other charges to Capital and including Interest on Capital and Reserve Fund)	Total: Rs. per train mile	Total: Rs. per week
	Rs.	Rds. As. P.	Rs.	Rs.	Rds. As. P.	Rs.	Rs.	Rs.	Rds. As. P.	Rs.
Earnings	11,42,374	4-8-6	·53	19,35,916	7-4-6	·89	32,04,033	32,04,033	8-8-3	148
Expenses (As per page II)	5,46,115	2-15-2	·25	9,00,366	4-9-6	·41·6	15,63,276	15,63,276	4-12-5	72
Profits	5,96,258	1-9-4	27·8	10,35,549	5-5-0	47·4	16,40,757	16,40,757	3-13-10	76
Percentage of Expenses to Earnings	47·8			46·5			48·7	48·7		1·43

	Haulage	Passenger	Goods	Mixed	Total
Number of trains run for public traffic		837	186	620	6290
Train Mileage (D.I. page 4)		78,602	195,979	604,544	879,125
Gross Car Mileage (D.II. page 8)					173,455,265

	Average Composition of Trains	Average number of wheels per vehicle. Passenger trains	Goods trains	Mixed trains	Average weight of trains Provided	Used	Freight or live load	Dead load (i.e. chassis of engines tenders & Brake
Passengers	1st Class	986	906	670	4427	1819		
	2nd	1176	014	001	20000	4834		
	3rd	4978	570	2755	49314	24389	6034	34333
	4th	002	000	870	50000	12269		
	Others including mails	1910	285	1298				
Goods (Vehicles of all kinds including brakes)		1634	17740	9241	Carrying Capacity in Tons: Light Goods 1·5	Heavy Goods 6	33633	61318
	Total	10686	18618	16455			39667	95651

(NB— For average load per vehicle see page)

Open Mileage on 31st December 1871	Double	Single	Main Mileage worked	Aggregate number of stations maintained	Capital expended on open lines during the year	Cost per mile of line	Total length of the following gradients: 1/100 and less	1/101 to 1/200	1/201 to 1/300	Steepest gradients worked by: Fixed power Length	Fixed power Inclination	Locomotives Length	Locomotives Inclination
					£	£	Mls.	Mls.	Mls.	Mls.		Mls.	
832	822	832	70	16,16,854	12214	6359	18379	16,65,3				0-65	1 in 60

(3)

TABLE B.

STATEMENT showing in comparison the Coaching Traffic of the half-years ending 31st December 1870 and 31st December 1871.

Reference to Revenue Account: Table and Main head	Sub-head	Details	Number: ½ Half 1870	Number: ½ Half 1871	Fare per Mile: ½ Half 1870	Fare per Mile: ½ Half 1871	Receipts: ½ Half 1870	Receipts: ½ Half 1871	Average Mileage: ½ Half 1870	Average Mileage: ½ Half 1871
X (H) 1		1st Class Passengers—			Pies	Pies	Rs	Rs		
		Single Journey	2264	2936			36735	48328	147	169·4
		Excess Fares	81	77	Only 18 pies ½ pice & 12½ pies ¼ pice	Only 18 pies ½ pice & 12½ pies ¼ pice	366	299		
		Return Journey	2220	2494			19,083	22,436	168	181·2
		Season Tickets								
		Troops and Police	46	36			1405	952	1170	—
		Total	2670	5468			57594	71816	153	161·1
		Season Tickets Total	1	2			150	80		
1		2nd Class—								
		Single Journey	18696	56424	Only 5 pice Return Journey & 2nd Class pice 4 pice	Only 5 pice Return Journey & 2nd Class pice 4 pice	67477	78662	31	57·9
		Excess Fares	430	814			364	452		
		Return Journey	2742	4072			6214	8850	73	119·7
		Season Tickets								
		Troops and Police	374	494			2427	3627	394	
		Total	52031	61802			76462	98790	57	58·5
1		3rd Class—								
		Single Journey	766970	894561			624013	726294	62	82·2
		Excess Fares	5104	9087			1486	2229		
		Return Journey	45884	73734	Pice		32598	65417	136	76·2
		Season Tickets								
		Troops and Police	13513	9610			40086	28174	194	
		Total	825367	977905			700133	812094	55	64·1

TABLE B —(*Continued.*)

STATEMENT showing in comparison the Coaching Traffic of the half-years ending 31st December 1870 and 31st December 1871

Reference to Revenue Account		Details	Number. 2nd Half 1870	Number. 2nd Half 1871	Fare per Mile. 2nd Half 1870	Fare per Mile. 2nd Half 1871	Receipts. 2nd Half 1870	Receipts. 2nd Half 1871	Average Mileage. 2nd Half 1870	Average Mileage. 2nd Half 1871
Table and Main head	Sub-head									
1	...	4TH CLASS—			Pies	Pies	Rs	Rs.		
		Single Journey	109376	133778			42574	52924	37	37.3
		Excess Fares								
		Return Journey								
		Season Tickets								
		Troops and Police								
		TOTAL .	109586	133778			42574	52924	37	37.3
			Tons.	Tons						
2		PASSENGERS' LUGGAGE	397	375			16625	15673	174	157
3		MILITARY BAGGAGE	120	78			9729	6712	81	255
			No	No.						
4	1	PUBLIC Carriages	347	352			8764	9054	186	194
	2	PUBLIC Horses	1262	1216			19179	20697	220	237
	3	PUBLIC Dogs	1266	1362			1867	2010	170	179
5	1	MILITARY Carriages	2				46	-	181	194
	2	MILITARY Horses ...	37	150			704	2359	221	237
	3	MILITARY Dogs .	7	8			3	32	170	179
			Tons.	Tons						
6		PARCELS .	778	805			20125	47121	148	187
			No	No.						
7		SPECIAL TRAINS	9	7			15629	6772	192	144
		POST OFFICE—								
8	1	Haulage and hire of Post Office vehicles								
	2	Special Trains ...								
	3	Parcels .					2148	1394		
		Total					112,819	113,670		
		Grand Total .					9,90,732	11,42,374		

TABLE C.

STATEMENT showing in comparison the Goods Traffic of the half-years ending 31st December 1870 and 31st December 1871

Reference to Revenue Account			Quantity 2nd half of 1870 Up	Quantity 2nd half of 1870 Down	Quantity 2nd half of 1871 Up.	Quantity 2nd half of 1871 Down	Rate per Ton Mile 2nd half of 1870	Rate per Ton Mile 2nd half of 1871	Receipts 2nd half of 1870.	Receipts 2nd half of 1871	Average Mileage. 2nd half of 1870	Average Mileage. 2nd half of 1871.
Table and Main head	Sub-head											
			Tons	Tons	Tons	Tons.	Pies	Pies	Rs	Rs		
		GENERAL MERCHANDIZE—										
		Special Class	4226	2686	3537	2534	28	8	98105	69114	117	1193
		1st "	23768	21965	24908	20422	12	12	672188	610462	116	1168
(1)		2nd "	24929	13962	19658	27487	24	14	258048	240603	149	166
		3rd "	6892	7406	8029	10126	18	18	124106	142288	164	178
		4th "	4140	1646	4160	2817	24	24	123460	93788	210	210
		5th "	2936	1949	2068	4601	36	36	110547	226845	199	209
		TOTAL	71602	61346	89324	86087			1386284	1381419	131	165
		Military										
2		GOVERNMENT STORES	207	2	357	66			6368	1884		257
3		RAILWAY MATERIALS FOR CONSTRUCTION	4135	4198	970	404			98962	24710	243	227
		MINERALS—										
		For the public .										
6		" Company										
		(Construction only)										
		TOTAL	4342	4219	1231	470			98360	42395		204
		GRAND TOTAL							1484253	1424214		
			No	No	No	No	Rate per animal per mile					
		LIVE STOCK—										
4		Horses	1362	92	34	47	18	18	1220	1965		237
		Cattle	218	399	211	211	18	18	4849	4641	164	167
		Sheep	4469	1644	2058	457	2	2	6041	791	134	73
		Military										
		GOVERNMENT LIVE STOCK—										
5		Horses	218	282	32	294			6629	4071		237
		Cattle	22	3	1	2			135	77		157
		Sheep										

TABLE—C.—(1).

Comparative Statement showing the weight and earnings of the principal commodities carried during the above half-years.

Description.	Quantity		Receipts.		Increase in Quantity	Decrease in Quantity	Increase in Receipts	Decrease in Receipts
	2 half 1870	2 half 1871	2 half 1870	2 half 1871				
	Tons	Tons.	Rs.	Rs.	Tons	Tons.	Rs	Rs
Bamboos	1739	2078	2741	12476	339	.	736	.
Betel Nuts	2117	3031	24737	37774	914	.	13037	.
Cloths and Piece Goods	2078	2444	61995	64567	366	.	2572	.
Coffee	706	957	13900	16938	251	.	3038	.
Cotton	4389	9846	112505	276342	5457	.	156339	.
Dye or Red Wood	3006	1340	40488	6644	.	1666	.	33844
Firewood	6229	8662	22133	28869	.	669	.	6736
Fruits & Vegetables	1371	2538	11916	13017	1167	.	1101	.
Ghee	872	1716	10665	11671	844	.	1006	.
Grass	8428	7855	62325	52721	.	573	.	9604
Grains	1523	3461	17628	56298	6938	.	38670	.
Gunnies	1312	1988	13478	24429	676	.	10950	.
Indigo	601	709	9636	11913	108	.	2277	.
Iron of all kinds	2644	2878	33362	46507	234	.	7146	.
Jaggree	2038	6529	22172	56066	4491	.	33894	.
Oil of all kinds	3026	3070	32420	32596	145	.	183	.
Ordnance Stores	162	290	5086	11726	128	.	6640	.
Potatoes	1805	1983	24629	27098	178	.	2469	.
Raggy	3423	2692	30701	18908	.	731	.	10793
Rice	19218	40691	124636	317699	21473	.	193063	.
Salt	24603	22099	184124	159428	.	2504	.	24696
Salt fish	1808	1506	23077	17444	.	302	.	5633
Seeds of all kinds	3554	6126	24407	58263	772	.	11956	.
Skins	1411	2291	22233	38527	880	.	16294	.
Sugar of all kinds	1201	2091	11342	16433	890	.	5091	.
Sundries	22350	23223	275322	275377	873	.	.	145
Tamarinds	2716	1489	19183	13729	.	227	.	5454
Timber	4686	5084	27170	29519	418	.	2349	.
Tobacco	1741	1816	12469	12499	75	.	30	.
Toddy	1486	1532	36599	38761	46	.	2162	.
Wines & Spirituous Liquors	1194	1549	24094	30631	355	.	6487	.
Total	132866	175411	1328449	1897012	48217	5672	628779	60156

TABLE D.

Statement of mileage maintained.*

Reference to Revenue Account		Details	2 half of 1870			2 half of 1871				
Table and Main head	Sub-head		Departmentally	By Contract	Total.	Departmentally	By Contract.	Total	Total Increase	Total Decrease.
IX. (A)	...	1 Mean miles of line maintained Single ..	666½	-	666½	702¼	.	702¼	35¾	.
		2 " Double .	.	-	-	-	-	-	-	-
		3 " Total ..	666½	.	666½	702¼	-	702¼	35¾	-
		4. " Sidings maintained, Total	76⅝	-	76⅝	80⅞	.	80⅞	3¾	
		5. " Single Track Total including Sidings	743 5/12	.	743 5/12	782 5/12	.	782 5/12	39 5/12	.

* From Revenue Funds

TABLE D—I.

Statement of Train Mileage.

	Details		Train Miles run for			Hours of		
			Traffic Department	Locomotive Department	Maintenance Department	Assisting Engines	Shunting, Piloting, &c.	Miscellaneous Services
	Reference to Revenue Account		XIV 1.	XIV 2	XIV 3	XIV 4	XIV 5	XIV 6
1	2 half, 1870	Passenger						
		Goods	774,792	10360	32,199	16	17,692	1777
		Mixed						
		Total	774,792	10360	32,199	16	17,692	1777
2	2 half, 1871	Passenger	79602					
		Goods	195,979	14,304	37,484	7	20,829	2326
		Mixed	604,524					
		Total	879,125	14,304	37,484	7	20,829	2,326
3	Increase in 1871	Passenger						
		Goods	104,333	3,944	5,285	-	3,137	549
		Mixed						
		Total	104,333	3,944	5285	-	3137	549
4	Decrease in 1871 ..	Passenger						
		Goods				9		
		Mixed						
		Total				9	-	-

TABLE E.

Maintenance of Way Works and Stations.

RAILS.

Reference to Revenue Account			1st Half of 1870.	2d Half of 1870.		
Table and Main head	Sub-head		Total	Total	Increase	Decrease
XIV.	8	Train Mileage (D I. 1, page 4) ..	774,72	879,126	104,333	..
		Ton-Mileage (M-I-22, page 13) ...	27[illegible]	[illegible]	[illegible]	..

		DETAILS.	1st Half of 1870.	2d Half of 1870			Per mile of line maintained D 3	Per mile of Track including Sidings. D 5	Per Train Mile	Per 1,000 Ton Miles.
			Total	Total.	Increase	Decrease.				
			Rs.	Rs.	Rs.	Rs.	Rs	Rs.	As.	Rs
		SUPERINTENDENCE—								
IX (A) 1	1 & 2	Engineers' salaries and allowances ...	29,799	32,044	2,245	..	45·631	40·933	·583	·185
	3 to 5	Inspectors' and Platelayers' salaries and allowances, including overtime	14,074	15,09	1039	..	21·521	19·306	·276	·087
	6	Office expenses ...	8395	11,013	2618	..	15·125	14·097	·20	·064
If done Departmentally		MAINTENANCE AND RENEWAL OF PERMANENT WAY—								
	2	1 Wages ..	137,140	131,678	..	5,462	187·267	167·999	2·395	·758
		2 Materials ..	122,146	128,150	6004	..	182·485	163·701	2·332	·739
		REPAIRS OF BRIDGES, &c WAGES AND MATERIALS—								
	3	1 Bridges and Tunnels	21,778	119,102	97,324	..	169·60	152·142	2·169	·687
		2 Tunnels								
		3 Miscellaneous ..	23,675	22,08	..	1,587	31·453	28·245	·402	·127
		REPAIRS OF STATIONS AND BUILDINGS WAGES AND MATERIALS—								
	4	1 Repairs of all except Staff Quarters	21,532	1929		19,603	2·747	2·464	·035	·011
		2 Repairs of Staff Quarters	6312	5726	586	..	8·154	7·314	·104	·033
	5	MAINTENANCE BY CONTRACT—								
		UNCLASSIFIED EXPENDITURE—								
	6	1 Plantations								
		2 Tools and Plant	9,128	7,772	1,649	..	11·067	9·928	·142	·045
		3 Loss on Stores, &c	5,672	366	..	5,306	·621	·468	·007	·002
		TOTAL	400,560	474,841	111,323	37,042	676·172	601·569	8·642	2·738

TABLE E—I.

Maintenance of Way.

RAILS

Number	Details.	Double headed		Bridge		Total
		Double headed	Bridge	Flat footed	Bridge	
				Steel		
1	Miles of rail in way, including sidings	65 lbs M C 7 668-68-22	75 lbs M C 7 964-26-33	84 lbs. M C 7 141-20-4	76 lbs M C 7 65-7-34	M C 7 0-13-52	M C 7 1829-56-13
2	Average age of rails in way at the middle of the half-year in years	Y M D 8-8-14	Y M D 5-10-19	Y M D 8-6-22	Y M D 2-5-14	Y M D 5-7-15	Y M D
3	Rails inverted { Number ...	660	71	4	..	..	735
	{ Miles .	2-40-0	0-21-32	0-1-14	..	..	2-62-46
4	Proportion inverted per mile of (1) rail	0·003	0 0002	0 0001	..	..	0·0015
5	Rails renewed { Number ..	74	57	32	9	..	174
	{ Miles	0-22-28	0-17-18	0-10-20	0-2-48	..	0-52-48
6	Proportion renewed per mile of (1) rail ...	0 0004	0 0002	0 0009	0 0005	..	0 0003
7	Average number of tons hauled over each kind of rail in the half-year	..	Not recorded	..	..	..	..
8	Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2) .	..	Not recorded	..	..	..	..

TABLE E—II.

Maintenance of Way.

SLEEPERS

Number	Details	Wood							Iron Bowls &c.	Remarks
		Teak					Jungle			
		10'x10'x5"	10'x12'x6"	12'x12'x6"	11'x11'x6"	8'x11'x6"	10'x9'x5"	10'x10'x5"	10'x12'x6"	
1	Number of Sleepers in Way including Sidings—	1215	807	4,007	340	301	59,001	204,280	535	2,480,950	
2	Average age of Sleepers in Way at the middle of the half year in years—	6-2-15	5-4-29	10-0	10-0	2-2-0	5-9-27	3-6-20	1-0-0	6-2-27	
3	Number renewed—	131					1,512	15,479		7,347	
4	—do— do— per cent—	1·09					2·56	7·57		0·29	

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account.			2d Half of 1870.	2d Half of 1871.				
Table & Main head	Sub-head		Total.	Total.	Increase	Decrease		
XIV		Train Mileage (D I. 1, p 7) ...	774,772	879,105	104,333	-		
		Ton Mileage (M I. 22, p. 16) ...	2,292,474,747	3,337,655,266	45,734,519	-		
		DETAILS	2d Half of 1870.	2d Half of 1871.			Per Train Mile	Per 1,000 Ton Miles
			Total	Total.	Increase	Decrease		
			Rs	Rs.	Rs	Rs.	As	Rs
		General Superintendence—						
IX. (B) 1	1 & 2	Salaries of Locomotive Superintendents and Assistants, including allowances ...	5568	11904	6,336	-	·217	·069
	2 to 5	Ditto of Foremen, including allowances and overtime	16742	26329	9565	-	·661	146
	6	Office Expenses . .	16518	12850	-	3668	·234	·074
		Running Expenses—						
2	1 & 2	Wages of Drivers and Firemen, including overtime	91,647	89328	-	2,319	1·628	515
	3	Fuelling, cleaning and looking after Engines ...	16,138	16703	565	-	·304	096
	4	Contingent Expenses ..	348	402	54	-	·007	002
		Fuel—						
3	1	Coal	3,880	72,090	68,210	-	1·313	·416
	2	Coke . ..	48,829	81,644	32,815	-	1·486	471
	3	Patent Fuel	61345	13,145	-	28,200	·239	076
	4	Wood	92,589	102,669	10080	-	1·869	592
4	1, 2 & 3	Water—	12 364	14,416	2,052	-	·263	·083
5	...	Oil, Tallow, &c —	10,584	12,761	2,177	-	·232	073
		Maintenance and Renewals—						
6	1 & 2	Wages, including overtime ..	73981	77.900	3919	-	1·416	·449
	3	Materials ...	48887	65,664	16.777		1·195	379
7	...	Services of other Lines—	-	-	-	-	-	-
8	...	Unclassified Expenditure—	-	-	-	-	-	-
		Total	499,462	596 825	151 588	54,187	10·862	3 441

			Total Quantity	Total Quantity.	Increase	Decrease	Quantity per Train Mile	Quantity per 1,000 Ton Miles
			Tons	Tons	Tons	Tons.	lbs	lbs.
IX (B) 3	1	Coal consumed	155	3,134	2,979	-	7·985	40 472
	2	Coke do.	1,526	2,474	948	-	6 303	31 949
	3	Patent Fuel consumed ...	2,020	469	-	1,551	1·195	6·056
	4	Wood do ...	20,667	22,917	2,250	-	58 392	295·950

TABLE F—1.

Locomotive Power.

Reference to Revenue Account		DESCRIPTION	Passenger Passenger	Passenger	Goods.	Tank.	Total.
Table & Main head	Sub-head						
		Locomotives — Wheels coupled	-	-	6 wheels and 4 do coupled	4 wheels coupled.	
		Locomotives — Weight on driving axle ..	-	14	10·78 to 12 35	8·74 to 13·25	-
		Locomotives — Total weight in steam, exclusive of tender ..	-	-	30·24	-	30 24
XII		1 —Number of Locomotives erected and made over to Locomotive Department .	-	2	104	20	126
		2 —Average number of Locomotives constantly under repairs .	-	2	22	3	27
		3 —Average number of Locomotives at work (1—2) ..	-	0	82	17	99
		4 —Train miles hauled by each class of Locomotives at work (3) ..	-	0	1,075,487	102 821	1,178,308
		5 —Average train miles hauled by each Locomotive at work (3)	-				
		Per half-year ..	-	0	11,089	5,712	16,801
		Per day ...	-	0	101	104	205
		6 —Average speed between stations of trains — Passenger ...	-	-	-	-	24
		6 —Average speed between stations of trains — Goods ..	-	-	-	-	16
		6 —Average speed between stations of trains — Mixed ...	-	-	-	-	17½
		7 —Average through speed of trains — Passenger ..	-	-	-	-	23
		7 —Average through speed of trains — Goods ..	-	-	-	-	14¾
		7 —Average through speed of trains — Mixed ..	-	-	-	-	16
		8 —Weight of coal, &c, used per train mile (To be separated if possible among the classes of Locomotives)	-	lbs	lbs	lbs	lbs
		9 —Weight of wood used per train mile (To be separated if possible among the classes of Locomotives)	-	-	27·15	9·52	24 09
		10 —Average gross weight of the trains hauled by each class of Locomotive	-	-	79 31	55·20	79·22

Not recorded

TABLE G.

Carriage and Wagon Expenses.

Reference to Revenue Account		Details	1st Half of 1870.	2d Half of 1871.		
Table and Main head	Sub-head.		Total.	Total.	Increase.	Decrease.
XIV		Train Mileage (D I. 1, p. 7)	774792	877125	104,333	-
		Vehicle Mileage — Coaching (M. I. 8, p 16) ...	3714933	4422971	708038	-
		Vehicle Mileage — Goods (M. I 14, p 16) ...	5714774	9084024	3369250	-
		Total	9429707	13506995	4077288	-

Reference to Revenue Account		Details	1st Half of 1871.	2d Half of 1871.				
Table and Main head	Sub-head.		Total	Total	Increase	Decrease.	Cost per Train Mile	Cost per 1,000 Vehicle Miles
			Rs	Rs	Rs	Rs.	As	Rs
		General Superintendence—						
IX (C) 1	1 & 2	Salaries of Superintendents and allowances ..	590	1729	1133	-	0031	0128
	3 to 5	Salaries of Foremen and allowances, including overtime	1854	3595	1741	-	0065	0266
	6	Office Expenses	1782	1826	44	-	0032	0135
		Repairs and Renewals of Vehicles and Machinery—						
2	1 to 3	Coaching Vehicles — Wages including overtime ...	5637	6892	1255	-	0126	(a) 0473
		Coaching Vehicles — Materials ..	6639	7672	1033	-	0140	(a) 0527
	1 to 3	Goods Vehicles — Wages, including overtime	10,942	12,253	1,311	-	0223	(b) 0363
		Goods Vehicles — Materials	16,215	21,538	5,323	-	392	(b) 0637
		Cleaning and Oiling—						
3	1	Labor, including wages of oilers, &c ...	6314	7087	773	-	0129	0525
	2	Stores ...	19,227	22,672	3445	-	0413	1679
4	..	Unclassified Expenditure—	-	-	-	-	-	-
		Total	69936	85,264	16,228	..	1552	6313

TABLE H.

Traffic Expenses

Reference to Revenue Account		Details	1st Half of 1870	2d Half of 1871.		
Table and Main head	Sub-head		Total	Total	Increase	Decrease.
XIV.		Train Mileage (D I 1, p 7, .	774792	877125	104,333	-
		Vehicle Mileage — Coaching (M. I. 8, p 16)	3,714,933	4,422,971	708,038	-
		Vehicle Mileage — Goods (M I 14, p 16) ..	5714,774	9084,024	3369,250	-
		Total .	9,429,707	13506,995	4,077288	..

Reference to Revenue Account		Details	1st Half of 1870	2d Half of 1871.				
Table and Main head	Sub-head		Total	Total.	Increase	Decrease	Cost per Train Mile	Cost per 1 000 Vehicle Miles.
			Rs	Rs	Rs.	Rs	As	Rs.
		Salaries, Wages, &c						
IX. (D) 1	(1 & 3) a	General Superintendence, including travelling allowances	32,031	25,321	..	6710	·461	1·378
	(2 & 4) a	Office Establishment and Contingencies	13,182	20705	7523	-	376	1·530
	b	Station Staff ..	96998	114525	17525	-	2·024	8·479
	c	Train Staff .	21631	27,209	5,578	-	495	2·015
2	1 to 3	Fuel, Lighting, Water and General Stores ..	29407	43,501	14,094	-	792	3 221
3		Clothing	2,631	7,348	-	4193	026	·100
4		Printing, Stationery and Tickets	13,201	14833	1,632	-	·270	1·099
5		Cattle used for Traffic purposes, and Delivery and Collection of Goods .	..	..	..	-	.	-
6		Miscellaneous Expenses .	395	337	-	58	·006	·025
		Payments for Services of other Lines—						
7	1	Hire of Vehicles ...	-	-	..	-	..	..
	2	Mileage of Foreign Stock ...	1351	1065	-	286	·020	·079
	3	Expenses of Joint Stations	..	..	-	-	-	-
	4	Use of Stations ..	-	-	-	-	-	-
8		Unclassified Expenditure .	..	-	-	-	-	-
		Total	210,627	246,812	46,452	8,237	4·529	18·423

TABLE J.

General Charges.

Reference to Revenue Account. Table and Main head.	Sub-head.	Details.	2nd half of 1870 Total.	2nd half of 1871 Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	As.
IX. (E.) 1	...	Home Expenditure ...	5573	9726	4153	-	·177
		Salaries of Indian Management including office					
2	1	Agent's Office, including travelling and other allowances ...	4266	9929	6673	-	·181
	2	Auditor's Office, ditto. ...	13692	15368	1766	-	·279
	3	Account's Office, ditto. ...	1865	2246	681	-	·041
	4	Pay Master's Office, ditto. ...	6067	8426	2359	-	·153
	5	Store Department, ditto. ...	2423	6152	3729	-	·112
	6	Medical Department, ditto. ...	6826	9087	2261	-	·165
	7	Rents of buildings hired	85	1414	1329	-	·026
	8-10	Contingencies, Stationery, and Medicine ...	1609	2417	808	-	·044
3	...	Police (*Total Charges*) ...	8731	10004	1273	-	·182
4	...	Advertising ...	85	481	396	-	·009
		Electric Telegraph—					
5	1 to 4	Salaries, &c. ...	13721	17547	4226	-	·327
	5	Maintenance (labour and wages stores) ...	9844	11921	2077	-	·217
6	..	Clearing Accounts with other Lines ...	-	-	-	-	-
7	...	Unclassified Expenditure	-	-	-	-	-
		Loss in Stores	110	-	-	110	
		Total ...	74429	105108	30789	110	1·913

TABLE K.

Steam Boat Service.

Reference to Revenue Account. Table and Main head.	Sub-head.	Details.	2nd half of 1870 Total.	2nd half of 1871 Total.	Increase.	Decrease.
IX. (F) 1	...	Working Vessels—	-	-	-	-
2	...	Repairs—	-	-	-	-
3	..	Fuel—	-	-	-	-
4	...	Miscellaneous Stores—	-	-	-	-
5	...	Steam Traffic Agencies—	-	-	-	-
6	..	Unclassified Expenditure—	-	-	-	-
		Total ...	-	-	-	-

TABLE L.

Special and Miscellaneous Expenditure.

IX. (G) 1	...	Law Charges—	10875	1830	-	9025
		Compensation—				
2	1	For goods lost or damaged Claims for Goods, &c. ...	817	6	-	811
	2	For Personal injury ...	-	-	-	-
		For other claims	-	750	750	-
3	...	Rates and Taxes—	75719	29083	-	46636
		Contributions to Special Funds—				
4	1	Fire Insurance Fund ...	20727	20727	-	-
	2	P. W. Renewal Fund ...	-	-		
	3	Casualty Fund ...	-	-		
		Total ...	108138	52396	750	56492

ANALYSIS OF CARRYING COST.

(See Sketch Revenue Account, p.)

TABLE M.—I.

Definitions

1 —The unit of passenger traffic is—1 passenger plus free luggage.
" " carriages is—1 carriage.
" " horses is—1 horse
" " luggage is—1 ton.
" " goods is—1 "
" " cattle is—1 animal.

Approximate weight of units to be adopted in these calculations

	Cwt		Cwt.
Coaching—		*Coaching—contd*	
1st Class Passenger with free luggage ...	1 75	A Horse ...	8 75
2nd " " "	1 75	A Dog ...	0 20
3rd " " "	1 25	*Goods—*	
4th " " "	1 25	A Head of horned cattle ...	5 00
A carriage (average for 2 and 4 wheeled)	6 75	A head of sheep, goats, &c. ..	0 50

Data for calculating the incidence of Carrying Cost per unit per mile for each class of Passenger Traffic and for Goods and Minerals.

	DETAILS	Total Mileage of each description of Rolling Stock (a)	Total Mileage of units of Traffic. (b)	Average Contents in units of each Vehicle: No (c)	Average Contents in units of each Vehicle: Weight in Tons (d)	Average weight of Rolling Stock in Tons. (e)	Total average weight including contents of each Vehicle in Tons (f)	Ratio of weight of paying to total load (g)	Ton Mileage: Profitable. (h)	Ton Mileage: Unprofitable (i)	Gross Ton Mileage (k)
	Coaching—										
1	1st Class										
2	2nd "										
3	3rd "										
4	4th "										
5	Carriage Trucks										
6	Horse Boxes										
7	Luggage Vans										
8	Total Coaching Vehicle Mileage										
9	Passenger Engines & Tenders										
10	Passenger Brake-vans										
11	Total Coaching Ton Mileage										

M.II.

Division between Coaching and Goods of the Expenditure of Departments.

Details	Maintenance	Locomotive	Carriage and Wagon	Traffic	General	Special and Miscellaneous Permanent Way Renewal Fund	Special and Miscellaneous other items	Total.
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Expenses due to Coaching	1,25,851	2,47,264	26714	78,766	47,999	.	17511·5	5,46,105·5
" " Goods	3,11,986	2,92,459	55,692	1,61,741	56,768	.	20,711·5	9,00,366·5
Total	4,40,837	5,39,723	82,406	2,40,507	1,04,767	.	38,222	14,46,482

M.III.

Distributed cost of carrying the Vehicles of each class including freight

Details	1st Class Carriages	2nd Class Carriages	3rd Class Carriages	1st Class Carriages	Carriage Trucks	Horse boxes	Luggage Vans	Post office Vehicles	Total Coaching stock	Goods Vehicles	Cattle Vans	Animal trucks	Total Goods stock.
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Maintenance	13131	20285	64776	6546	2785	8147	7716	6471	129857	309665	2321	.	311986
Locomotive	25181	38930	124322	12563	3425	15635	14808	12420	247264	290264	2175	.	292439
Carriage & Wagon	2816	4346	13811	1304	493	1504	1403	1358	26714	55162	530	.	55692
Traffic	8126	12698	38624	3993	1508	4851	4398	4158	78766	160235	1506	.	161741
General	5257	7739	23541	2434	919	2956	2619	2534	47999	56237	531	.	56768
Special and Miscellaneous — P.W. Renewal Fund	.	.	.	.	.	.	.	.	.	.	.	.	.
Special and Miscellaneous — Other items	1918	2822	8588	888	335	1079	956	924·5	17511·5	24516·5	193·7	.	24710·5
Total	56919	86621	274466	27728	8464	34262	31800	27865·5	546105·5	893112·5	7269·7	.	900366·5

M.IV.

Classified cost of working over one mile a vehicle including its freight, also total cost of carrying over one mile a unit of each description of traffic.

Details		1st class	2nd class	3rd class	4th class	Carriage Trucks	Horse Boxes	Luggage Vans	Post Office Vehicles	Goods Vehicles	Cattle Vans	Mineral Trucks
		Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies
Maintenance		5.200	5.461	5.704	5.604	4.045	6.742	6.135	5.823	6.607	5.248	.
Locomotive		9.951	10.482	11.004	10.765	7.764	11.020	11.779	10.24	6.193	4.915	.
Carriage & wagon		1.116	1.116	1.116	1.116	1.116	1.116	1.116	1.116	1.198	1.198	.
Traffic		3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	.
General		2.084	2.084	2.084	2.084	2.084	2.084	2.084	2.084	1.200	1.200	.
Special and Miscellaneous	P.W. Renewal Fund	.	.	.	.	.	.	.	.	.	.	.
	Other items	.760	.760	.760	.760	.760	.760	.760	.760	.438	.438	.
Total		22.580	23.322	24.147	23.738	19.188	24.141	25.296	22.911	19.055	16.413	.
Cost per unit.		12.400	4.824	.988	1.066	22.710	21.760	29.914	.	6.824	16.146	

M.V.

Statement shewing in comparison the receipts and the carrying cost per unit per mile of Coaching and Merchandise traffic.

Details	Average receipts per unit per mile	Actual cost per unit per mile	Profit per unit per mile	Loss per unit per mile	Proportion per cent of profits & receipts
	Pies	Pies	Pies	Pies	
Coaching					
1st Class	15.645	12.400	3.245		20.741
2nd	5.113	4.824	0.288		5.633
3rd	2.947	0.988	1.959		66.469
4th	2.035	1.066	0.969		47.609
Carriages	25.363	23.710	1.653		6.517
Horses	14.647	21.760		7.113	.
Luggage	76.723	29.914	46.809		61.010
Post Office Vehicles	.	.	.		.
Goods	.	.	.		.
Merchandise including Goods Stores & Railway Materials	12.583	5.824	6.709		53.328
Cattle	19.104	16.146	0.958		5.014
Minerals	.				

Mem. Lieut. Colonel & Co
Chief Engineer for Railways

P. W. 447/12

List of Rates and Fares

Troops and Police — Troops — Officers on duty pay second-class fare for first-class accommodation and Non-Commissioned Officers and Soldiers travel second class on payment of the lowest fare.

Police — Policemen are conveyed on payment of the ordinary fares.

Special Trains — Special Trains are now at a charge of 3 Rupees a mile when consisting of an engine, a carriage, and brake van only. When more accommodation than this is required, the extra passengers are conveyed at ordinary fares.

Cattle — Cattle sent singly will be charged for at the rate of 1/2 Annas per mile. Sheep in waggon loads of fifty or any less number, and cattle for slaughter in waggon-loads of eight or less any number will be conveyed as under:—

From

	Per truck per mile Rs A P
From 1 to 50 miles - -	0 - 2 - 6
- 51 - 100 " " -	0 - 2 - 3
- 101 - 150 " - -	0 - 2 - 0
151 miles and upwards -	0 - 1 - 9

Sheep sent singly are charged for at the rate of 8 Annas for distances not exceeding 50 miles, 1 Rupee for distances from 51 to 100 miles, and 4 Annas additional for every 50 miles or portion of 50 miles above 100 miles.

Dealers' horses are conveyed in waggons by "Goods" Train at 3 Annas per mile per truck load of five or any less number.

List of Madras Railway Rates and distances from Erode station.

For Goods

The "Great Southern of India Railway" and "Madras Railway Classification of Goods"

For Parcels

Distance	10 lbs and under	11 lbs to 20 lbs	21 lbs to 40 lbs	41 lbs to 80 lbs	81 lbs to 100 lbs	101 lbs to 125 lbs	126 lbs to 150 lbs	151 lbs to 200 lbs	201 lbs to 250 lbs
	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A
1 to 50 miles	0 - 4	0 - 6	0 - 8	0 - 12	1 - 2	1 - 8	1 - 14	2 - 4	2 - 10
51 " 100 "	0 - 8	0 - 9	0 - 12	1 - 2	1 - 10	2 - 2	2 - 10	3 - 2	3 - 10
101 " 150 "	0 - 8	0 - 12	1 - 0	1 - 8	2 - 2	2 - 12	3 - 6	4 - 0	4 - 10
151 " 200 "	0 - 10	0 - 15	1 - 4	1 - 14	2 - 10	3 - 6	4 - 2	4 - 14	5 - 10
201 " 250 "	0 - 12	1 - 2	1 - 8	2 - 4	3 - 2	4 - 0	4 - 14	5 - 12	6 - 10
251 " 300 "	0 - 14	1 - 5	1 - 12	2 - 10	3 - 10	4 - 10	5 - 10	6 - 10	7 - 10
301 " 350 "	1 - 0	1 - 8	2 - 0	3 - 0	4 - 2	5 - 4	6 - 6	7 - 8	8 - 10
351 " 400 "	1 - 2	1 - 11	2 - 4	3 - 6	4 - 10	5 - 14	7 - 2	8 - 6	9 - 20

For Ice, Fish, Meat and Vegetables

Distance	10 lbs and under	11 to 20 lbs	21 to 40 lbs	41 to 80 lbs	81 to 100 lbs	101 to 125 lbs	126 to 150 lbs	151 to 200 lbs	201 to 250 lbs
	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A
1 to 50 miles -	0 - 3	0 - 5	0 - 6	0 - 9	0 - 12	0 - 15	1 - 2	1 - 8	2 - 0
51 to 100 " -	0 - 5	0 - 6	0 - 8	0 - 12	0 - 15	1 - 2	1 - 5	1 - 14	2 - 7
101 " 200 " -	0 - 8	0 - 9	0 - 12	1 - 2	1 - 4	1 - 7	1 - 10	2 - 7	3 - 0
201 " 300 "	0 - 9	0 - 12	0 - 15	1 - 5	1 - 8	1 - 11	1 - 14	3 - 0	3 - 11
301 " 400 " -	0 - 11	0 - 15	1 - 2	1 - 8	1 - 13	2 - 0	2 - 2	3 - 9	4 - 4

Packages weighing more than 250 lbs to be charged for in proportion to the rates for 250 lbs.

For Passengers' Luggage.

First Class " 82 lbs
Second " 25 " } Free.
Third " 15 "

All luggage in excess of these quantities (whether in the owner's charge or not) 2 pies per 82 lbs per mile

For Horses, Carriages, and Dogs.

One Horse " " " -	1½ Annas per
Two Horses (if one property) - -	2¼ - per
Three Horses (do.) - -	3 - per
Four wheeled Carriage - -	2½ - per
Two do. do. " "	1½ - per
Palanquin " " "	1 Anna per

Dogs.

1 to 50 miles " -	Rupee 0 - 8 - 0 each
51 " 100 " " "	" 1 - 0 - 0 "
101 " 150 " " "	" 1 - 4 - 0 "
151 " 200 " " "	" 1 - 8 - 0 "

201 to 250 miles — Rupees 1-12-0 each

251 - 300 — 2-0-0

301 - 350 — 2-4-0

351

Tables Works 1872 Department

RAILWAY DEPARTMENT.

1872.

From — No. 4471

The Consulting Engineer
for Railways,

To

The Secretary to Government,
P. W. Department,
Fort Saint George.

Dated 10 } Sept 1872.
Recd 12 }

Encls: 3

No. 482

Subject Name of the Revenue Account of the Madras Ry for the half year ended 31 December 1871

With order

Ordered that the Chief Engineer do forward to the Govt of Madras the Revenue Account of the Madras Railway for the half year ended 31st December 1871 with the Report of the Auditor thereon

9/10/72

Govt of Madras

No. 2312

Dated 9/10/72

City

Copy

Sent to Auditor 16/10/72

47 35

of {1872} Madras.

UBLIC WORKS.

To Consulting Engr
for Railways
To Secretary to the
Govt of India

Encl 3

2d Advr 1234.
2312.

Nos. 17-1819

ew, Submitted by the

Supt. of the Revenue
Account of the Madras Rail-
way for the 2d half of 1871,
ceived this Forwarded
the Govt of India.

Forwards the Review
the Rev. Account of the Madras
Ry for the 2d half of 1870.