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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 199-200 Press / Mis.
389-391

Dated 22. 1 1872.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 22nd January 1872.

No. 389. Read the following letter from the Acting Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 9th December 1871, No. 542 :—

I HAVE the honour to forward, for submission to the Government of India, the Revenue Analysis of the Madras Railway for the half-year ending the 30th June 1871. The net profits show but a slight improvement over the previous year.

MADRAS RAILWAY.

Return of Traffic for the week ending 2nd December 1871 and for the corresponding week of last year.

Week ending 3rd Dec. 1870. Miles open, 707.				Week ending 2nd December 1871. Miles open, 832.			
No.	Receipts.				No.	Receipt.	
		RS.	A. P.	COACHING.		RS.	A. P.
96	1,418	7	0	Passengers, 1st Class, Ordinary...	96	1,417	6 0
.....	.....			,, ,, Periodical Ticket.	.....	.....	
50	320	2	0	,, ,, Return Fares ...	54	466	2 0
2,597	2,745	9	0	,, 2nd Class, Ordinary...	2,005	2,470	8 0
.....	.....			,, ,, Return Fares ...	12	12	0 0
30,015	24,207	8	0	,, 3rd Class, Ordinary...	38,059	30,248	11 0
3,952	1,572	8	0	,, Cooly Class ...	4,820	1,858	14 0
702	607	1	0	,, ,, Return Fares.	1,385	432	0 5
345	61	1	0	,, ...	345	126	4 0
519	2,224	3	0	Excess	761	3,249	3 0
.....	976	5	0	Soldiers	.....	1,586	12 0
.....	1,170	10	0	Passengers' Luggage	.....	1,624	13 0
.....	1,070	2	0	Parcels	.....	1,656	3 0
.....	.....			Horses, Carriages, and Dogs ...	.....	.....	
.....	.....			Special Trains	.....	.....	
.....	338	7	4	Extra Troop Train	.....	455	7 4
.....	36,711	15	4	Telegraph	.....	45,604	3 9
				Total, Coaching Traffic ...			
Maunds, Seers				GOODS, ETC.	Maunds, Seers.		
158,314·30½	59,965	5	0	Merchandize	221,731·13½	81,402	7 4
3,756·7	2,629	13	0	Railway materials	463·29	399	0 0
.....	.....			Locomotive fuel	.....	.....	
.....	98	6	0	Live stock	.....	88	6 0
.....	62,693	8	0	Total, Goods Traffic...	.....	81,889	13 4
.....	99,405	7	4	Gross Total...	.....	1,27,494	1 1
1870. Rupees 140-9-8 per mile.					1871. Rupees 153-3-9 per mile.		

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

(Signed) J. E. ATKINSON,
for Chief Auditor.

TABLE A.

General Statement of Working of half-year ending 30th June 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 from Goods.	
					Rs.		
Coaching.	Passengers.	1st Class...	5,314	0·48	65,594	6·13	2·35
		2nd ,, ...	55,756	5·04	87,054	8·13	3·12
		3rd ,, ...	921,696	83·30	7,20,119	67·27	25·84
		4th ,, ...	123,676	11·18	48,735	4·55	1·75
	Miscellaneous earnings...		.....	.....	1,49,045	13·92	5·35
	Total...		1,106,442	100·0	10,70,547	100·0	.....
			Tons.				
Goods...	Merchandize.	Special ...	14,518	9·69	1,11,478	6·89	4·00
		1st Class...	74,349	49·61	5,51,881	34·08	19·81
		2nd ,, ...	25,029	16·70	2,84,320	17·56	10·20
		3rd ,, ...	17,528	11·69	2,79,410	17·26	10·03
		4th ,, ...	5,558	3·71	1,28,802	7·95	4·62
		5th ,, ...	3,542	2·36	1,33,125	8·22	4·78
	Railway materials ...		9,352	6·24	1,05,801	6·53	3·80
	Minerals		.....	.....	.....	.....	.....
	Miscellaneous earnings ...		.....	.....	24,439	1·51	0·88
	Total...		149,876	100·0	16,19,256	100·0	.....
Miscellaneous, Total...			.....	.....	96,618	.....	.....
Grand Total...			.....	.....	27,86,421	.....	.....

General Statement of Working of half-year ending 30th June 1871—(Continued.)

—	Coaching.			Goods.			Miscellaneous.			Total.			Percentage of profits on paid up Capital.
	Total.	Per mixed train mile.	Per open mile per week.	Total.	Per mixed train mile.	Per open mile per week.	Total.	Per mixed train mile.	Per open mile per week.	Total.	Per mixed train mile.	Per open mile per week.	
	Rs.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs.	Rs.
Earnings ...	10,70,547	2 0 5	49	16,19,256	3 1 1	75	96,618	0 2 11	4	27,86,421	5 4 5	128	1·16
Expenses ...	4,65,839	0 14 1	21	9,85,175	1 13 10	46	56,803	0 1 9	2	15,07,817	2 13 8	69	
Profits	6,04,708	1 2 4	28	6,34,081	1 3 3	29	39,815	0 1 2	2	12,78,604	2 6 9	59	.....
Percentage of Expenses to Earnings ...	44	.....	.....	60	.....	.....	59	.....	.....	54	.....	.....	.....

Proceedings of the Madras Government, Public Works Department, 22nd January 1872.

General Statement of Working of half-year ending 30th June 1871—(Concluded.)

	Passenger.	Goods.	Mixed.	Total.
Number of trains run	884	1,384	3,132	5,400
Train mileage (D—I. 1, page 7)	114,915	170,625	528,107	813,647
Gross ton mileage (M—I. 22, page 16) ...	43,566,326	94,084,106	Included in Pure Passenger, and Pure Goods.	137,650,432

Average composition of Trains.	Average number of Vehicles.			Average number of seats		Average weight of Trains.	
	Passenger Trains.	Goods Trains.	Mixed Trains.	Provided.	Used.	Freight or live load.	Dead load, exclusive of Engine and Tender.
						TONS.	TONS.
Passenger ... 1st Class	Information is not recorded.		0·421	7·574	1·493		
2nd ,, ...			1·557	62·280	6·065		
3rd ,, ...			3·721	187·931	87·827		
4th ,, ...			0·400	20·020	8·695		
Others			1·552	...	TONS. 0·590	7·2838	50·390
Goods—(*Vehicles of all kinds including brakes*)			14·455	Carrying capacity in tons. ...		42·882	81·667

Open mileage on 30th June 1871.			Mean mileage worked during half-year.	Capital expended on open mileage, inclusive of Rolling Stock.	Cost per mile open.	Total length of the following gradients.			Steepest gradients worked by			
									Fixed power.		Locomotive.	
Single.	Double.	Total.				$\frac{1}{100}$ and less.	$\frac{1}{101}$ to $\frac{1}{200}$	$\frac{1}{201}$ to $\frac{1}{300}$	Length.	Inclination.	Length.	Inclination.
				£	£	M. CH. F.	M. CH. F.	M. CH. F.	M. CH.		M. CH.	
832	...	832	819	9,217,737	11,255	63 59 01	183 78 92	111 65 50	...	...	0·65	1 in 60

TABLE B.

Statement showing in comparison the Coaching Traffic of the half-years ending 30th June 1870 *and 30th June* 1871.

Reference to Revenue Account.		Details.	Number.		Fare per Mile.		Receipts.		Average Mileage.	
Table and main head.	Sub-head.		1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.
X (II.) 1	...	1st Class Passengers—					RS.	RS.		
		Single Journey ...	2,923	3,033	Day, 18 Pies. Night, 22 ,,	Day, 18 Pies. Night, 22 ,,	42,764	45,772	...	...
		Excess Fares ...	94	110			581	602	...	...
		Return Journey...	2,282	2,244			19,524	18,141	...	...
		Troops and Police.	89	36			1,282	1,079	...	...
		Total...	5,244	5,313	...	...	64,151	65,594	145·6	148·4
		Season Tickets...	1	1	...	...	150	...	...	...

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.		1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.
							RS.	RS.		
1	...	2nd Class—			Day, 5 Pies. Between Coimbatore and Beypore, 4 Pies. Night, 12 Pies, with a special charge of 5 Pies for servants of 1st class passengers.					
		Single Journey ...	50,877	52,335			75,256	79,964	...	...
		Excess Fares ...	376	444			354	527	...	...
		Return Journey...	3,652	3,072			5,720	4,297	...	...
		Troops and Police.	558	349			2,674	2,266	...	...
		Total...	55,087	55,756	...	...	84,004	87,054	56·6	57·4
		Season Tickets ...	...	...	...	...	...	...	...	...
1	...	3rd Class—					6,38,084	6,71,003	...	...
		Single Journey ...	846,328	843,491	3 Pies.	3 Pies.	2,223	2,235	...	...
		Excess Fares ...	7,600	8,516			32,018	22,017	...	...
		Return Journey...	81,246	67,610			20,522	24,864	...	...
		Troops and Police.	9,224	10,595						
		Total...	936,798	921,696	...	...	6,92,847	7,20,119	48·4	50·3
		Season Tickets...	...	...	...	...	...	...	...	...
1	...	4th Class—					40,774	48,735	...	...
		Single Journey ...	103,302	123,676	2 Pies.	2 Pies.	...	...	...	...
		Excess Fares ...	...	...			...	...	...	...
		Return Journey...	...	...			...	...	...	...
		Troops and Police	...	...						
		Total...	103,302	123,676	...	...	40,774	48,735	37·2	37·1
		Season Tickets...	...	...	...	...	...	...	...	...
2	...	Passengers' Luggage.	TONS. 566	TONS. 670	...	...	19,127	20,435	147·9	133·9
3	...	Military Baggage ...	35	181	...	...	5,531	5,413	...	...
			No.	No.			10,975	8,722	...	...
4	1	Public... Carriages..	547	406	...	...	22,454	20,482	...	...
	2	Horses ...	1,732	1,348	...	...	2,016	2,401	...	...
	3	Dogs ...	1,463	1,648	...	...	285	48	155·6	168·9
5	1	Military Carriages..	22	2	...	...	651	670	185·3	213·2
	2	Horses ...	42	29	...	...	...	...	148·6	165·7
	3	Dogs ...	...	...	...	...				
			TONS.	TONS.			47,418	49,144	128·1	150·5
6	...	Parcels	1,028	886	...	...				
			No.	No.			46,111	40,021	...	...
7	...	Special Trains ...	6,760	5,010	...	...				
8	1	Post Office— Haulage and hire of Post Office Vehicles ...	...	...	...	...	...	...	...	...
	2	Special Trains ...	...	...	...	...	1,523	1,709	...	...
	3	Parcels	...	...	...	...	...	...	...	...
		Total...	...	...	...	...	1,56,091	1,49,045	...	...

TABLE C.

Statement showing in comparison the Goods Traffic of the half-years ending 30th June 1870 *and 30th June* 1871.

Reference to Revenue Account.			Quantity.				Rate per Ton Mile.		Receipts.		Average Mileage.	
			1st half of 1870.		1st half of 1871.		1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.
Table and main head.	Sub-head.		Up.	Down.	Up.	Down.						
		General Merchandize—	TONS.	TONS.	TONS.	TONS.	PIES.	PIES.	RS.	RS.		
X. (I.) 1	...	Special Class ...	5,897	6,396	6,842	7,676	8	8	17,164	1,11,477	53·81	187·86
		1st ,, ...	58,109	45,723	44,366	29,683	12	12	6,26,102	5,51,881	107·84	147·81
		2nd ,, ...	23,314	21,177	9,628	15,401	14	14	2,81,950	2,84,320	113·84	151·58
		3rd ,, ...	13,441	10,521	5,739	11,789	18	18	2,52,536	2,79,410	135·62	181·54
		4th ,, ...	5,254	2,701	3,697	1,861	24	24	1,41,682	1,28,802	152·30	189·41
		5th ,, ...	2,414	2,998	1,721	1,821	36	36	1,52,875	1,33,125	138·60	188·84
		Total...	113,429	89,516	72,293	68,231	...	...	14,72,309	14,89,015	...	...

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

Reference to Revenue Account.			Quantity.				Rate per Ton Mile.		Receipts.		Average Mileage.	
			1st half of 1870		1st half of 1871.							
Table and main head.	Sub-head.		Up.	Down.	Up.	Down.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.	1st half of 1870.	1st half of 1871.
			TONS.	TONS.	TONS.	TONS.	PIES.	PIES.	RS.	RS.		
2	...	Military Stores.	156	19	243	129	24	24	4,722	10,737	Not recorded.	189·41
3	...	Railway Materials for Construction ...	Not recorded.		6,400	2,952	...	...	84,467	1,05,801	...	144·59
6	...	Minerals— For the Public...	...	...	...	...	...	...	...	...	...	...
		" Company, (Construction only)	...	...	...	...	...	...	...	...	...	...
			...	...	...	...	...	...	...	...	...	...
		Total...	156	19	6,643	3,081	...	...	89,189	1,16,538	...	...
		Grand Total...	113,585	89,535	78,936	71,312	...	...	15,61,498	16,05,553	...	...
			No.	No.	No.	No.	Rate per animal per mile.					
4	...	Live Stock— Horses ...	497		82	206	18	18	4,764	2,990	Not recorded.	213·20
		Cattle ...	253	204	144	349	18	18	1,811	2,530	158·59	190·38
		Sheep ...	2,592	1,086	861	919	2	2	1,219	676	105·56	83·42
5	...	Military Live Stock— Horses ...	123		197	153	18	18	884	3,113	Not recorded.	213·20
		Cattle ...	...	...	5	1	18	18	...	81		190·38
		Sheep ...	...	...	...	...	2	2	...	...		...
		Grand Total...	...	...	...	...	...	...	15,70,176	16,14,943	...	...

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.
	1st half, 1870.	1st half, 1871.	1st half, 1870.	1st half, 1871.				
	TONS.	TONS.	RS.	RS.	TONS.	TONS	RS.	RS.
Baggage (Military) ...	85	181	868	3,566	146	...	2,698	...
Ballast and Stones ...	2,624	1,693	5,817	6,583	...	931	766	...
Bamboos ...	2,101	2,147	11,739	11,740	...	...	1	...
Beer	344	372	7,468	8,159	46	...	691	...
Betel Nuts ...	1,735	2,219	20,607	28,943	28	...	8,336	...
Brass and Copper ...	333	159	5,912	2,273	484	...	...	3,639
Charcoal, Coke, and Coal	270	367	2,049	3,560	...	174	...	2,731
Chillies ...	1,894	1,214	10,472	7,741	97	...	1,511	...
Chunam and Lime...	523	596	1,435	1,030	...	180	...	405
Cloths and Piece Goods	1,660	1,707	46,841	44,983	73	...	...	1,858
Cocoanuts ...	633	439	9,430	3,563	47	...	...	5,867
Coffee	3,549	5,198	59,267	90,875	...	...	...	...
Commissariat Stores	6	1	54	99	1,649	194	...	...
Cotton, loose ...	1,806	1,878	68,557	63,297	...	...	31,608	...
Do. half-pressed	92	866	2,608	32,902	72	5	45	...
Do. full-pressed	998	3,314	18,660	72,173	774	...	...	6,260
Dye or Redwood ...	2,856	369	14,847	2,127	2,316	...	30,294	...
Firewood ...	5,176	5,224	20,737	21,484	...	...	53,513	...
Fruits and Vegetables	1,000	1,042	9,695	9,582	48	2,487	...	12,720
Furniture ...	47	37	1,394	1,111	42	...	747	...
Ghee	643	629	10,164	10,707	...	...	...	113
Gram	14,639	10,136	1,17,488	74,037	...	10	...	283
Grains	1,740	773	22,445	7,878	...	14	543	...
Ground Nuts ...	850	408	3,526	1,912	...	4,503	...	42,851
Gunnies ...	1,307	1,509	14,599	18,080	...	967	...	14,567
Hay	15	3	104	23	202	442	...	1,614
Indigo	467	631	8,624	12,099	...	...	3,481	...
Iron of all kinds ...	4,532	2,964	73,056	47,072	164	12	...	81
					...	1,568	3,475	...
							...	25,983

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

Description.	Quantity.		Receipts.		Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	1st half, 1870.	1st half, 1871.	1st half, 1870.	1st half, 1871.				
	TONS.	TONS.	RS.	RS.	TONS.	TONS.	RS.	RS.
Jaggery	2,198	2,195	24,867	17,449	...	3	...	7,418
Luggage	200	238	5,740	6,258	38	...	528	...
Oil of all kinds	3,221	3,383	33,783	32,248	162	...	...	1,535
Ordnance Stores	134	189	3,801	7,072	55	...	3,271	...
Paddy	842	1,071	3,358	4,188	229	...	830	...
Pitch, Tar, and Asphalte ...	35	24	519	353	...	11	...	166
Potatoes	1,355	1,454	17,295	18,004	99	...	709	...
Powder and Ammunition ...	75	35	4,763	2,416	...	40	...	2,347
Raggy	2,526	1,645	26,984	13,069	...	881	...	13,915
Rice	13,708	23,769	93,913	1,95,886	10,061	...	1,01,973	...
Salt	25,331	22,279	1,85,667	1,64,721	...	3,052	...	20,946
Saltfish	1,129	917	14,608	9,045	...	212	...	5,563
Saltpetre	278	176	4,176	3,331	...	102	...	845
Seeds of all kinds	5,843	4,363	69,557	46,608	...	1,480	...	22,949
Skins	1,600	1,850	27,308	30,239	250	...	2,931	...
Sugar of all kinds	1,080	1,446	10,117	13,981	366	...	3,864	...
Sundries	16,563	17,073	2,45,585	2,57,360	510	...	...	18,225
Tamarind	3,468	3,766	28,553	23,174	298	...	...	5,379
Timber	5,712	4,115	35,360	26,694	...	1,597	...	8,666
Tobacco	2,238	2,231	14,692	14,316	...	7	...	376
Twist	1,200	1,241	30,999	31,490	41	...	491	...
Wines and spirituous liquors ...	1,454	1,360	26,932	24,650	...	94	...	2,282
Total...	141,565	140,896	14,77,030	14,99,752	18,297	18,966	2,52,306	2,29,584

TABLE D.

*Statement of Mileage maintained.**

Reference to Revenue Account.		Details.	1st half of 1870.			1st 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...	645½	...	645½	677½	...	677½	32	...
		2. Double..	...	...	...	...	...	...	...	...
		3. Total...	645½	...	645½	677½	...	677½	32	...
		4. " Sidings maintained, Total...	76	...	76	77½	...	77½	1½	...
		5. " Single Track Total, including Sidings.	721½	...	721½	754½	...	754½	33½	...

* 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, etc.	Miscellaneous Services.
	Reference to Revenue Account.	XIV.-1.	XIV.-2.	XIV.-3.	XIV.-4.	XIV.-5.	XIV.-6.
1	1st half, 1870 ... Passenger...	749,668	22,731	26,727	20½	15,407	816
	Goods ...						
	Mixed ...						
	Total...	749,668	22,731	26,727	20½	15,407	816

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

Reference to Revenue Account. Table and main head.	Sub-head.	—	Quantity. 1st half of 1870. Up.	Down.	Quantity. 1st half of 1871. Up.	Down.	Rate per Ton Mile. 1st half of 1870.	1st half of 1871.	Receipts. 1st half of 1870.	1st half of 1871.	Average Mileage. 1st half of 1870.	1st half of 1871.
2	...	Military Stores.	TONS. 156	TONS. 19	TONS. 243	TONS. 129	PIES. 24	PIES. 24	RS. 4,722	RS. 10,737	Not recorded.	189·41
3	...	Railway Materials for construction ...	Not recorded.		6,400	2,952	...	...	84,467	1,05,801	...	144·59
6	...	Minerals— For the Public...	...	...	...	...	...	...	...	...	...	...
		" Company. (Construction only)	...	...	...	...	...	...	...	...	...	...
			...	...	...	...	...	...	...	...	...	...
		Total...	156	19	6,643	3,081	...	...	89,189	1,16,538	...	...
		Grand Total...	113,585	89,535	78,936	71,312	...	...	15,61,498	16,05,553	...	...
			No.	No.	No.	No.	Rate per animal per mile.					
4	...	Live Stock— Horses ...	497		82	206	18	18	4,764	2,990	Not recorded.	213·20
		Cattle ...	253	204	144	349	18	18	1,811	2,530	158·59	190·38
		Sheep ...	2,502	1,086	801	919	2	2	1,219	676	105·56	83·42
5	...	Military Live Stock— Horses ...	123		197	153	18	18	884	3,113	Not recorded.	213·20
		Cattle ...	...	...	5	1	18	18	...	81		190·38
		Sheep ...	...	...	...	...	2	2	...	...		...
		Grand Total...	...	...	...	...	...	...	15,70,176	16,14,943	...	...

TABLE C.-I.

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

Description.	Quantity. 1st half, 1870.	1st half, 1871.	Receipts. 1st half, 1870.	1st half, 1871.	Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	TONS.	TONS.	RS.	RS.	TONS.	TONS.	RS.	RS.
Baggage (Military) ...	85	181	868	3,566	146	...	2,698	...
Ballast and Stones ...	2,624	1,693	5,817	6,583	...	931	...	...
Bamboos ...	2,101	2,147	11,739	11,740	46	...	766	...
Beer	344	372	7,468	8,159	28	...	1	...
Betel Nuts ...	1,735	2,219	20,607	28,943	484	...	691	...
Brass and Copper ...	333	159	5,913	2,273	...	174	8,336	...
Charcoal, Coke, and Coal	270	367	2,049	3,560	97	...	...	3,639
Chillies ...	1,394	1,214	10,472	7,741	...	180	1,511	...
Chunam and Lime...	523	596	1,435	1,030	73	...	...	2,731
Cloths and Piece Goods	1,660	1,707	46,841	44,983	47	...	...	405
Cocoanuts ...	633	439	9,430	3,563	...	...	...	1,858
Coffee	3,549	5,198	59,267	90,875	1,649	194	...	5,867
Commissariat Stores	6	1	54	99	...	...	31,608	...
Cotton, loose ...	1,806	1,878	68,557	62,297	72	5	45	...
Do. half-pressed ...	92	866	2,608	32,902	774	...	...	...
Do. full-pressed ...	998	3,314	18,660	72,173	2,316	...	30,294	6,260
Dye or Redwood ...	2,856	369	14,847	2,127	...	2,487	53,513	...
Firewood ...	5,176	5,224	20,737	21,484	48	...	...	...
Fruits and Vegetables	1,000	1,042	9,695	9,582	42	...	747	12,720
Furniture	47	37	1,394	1,111	...	10	...	...
Ghee	643	629	10,164	10,707	...	14	...	113
Gram	14,689	10,136	1,17,483	74,637	...	4,503	543	283
Grains	1,740	773	22,445	7,878	...	967	...	...
Ground Nuts ...	850	408	3,526	1,912	...	442	...	42,851
Gunnies ...	1,307	1,509	14,599	18,080	202	...	...	14,567
Hay	15	3	104	23	...	12	3,481	1,614
Indigo	467	631	8,624	12,099	164	...	...	...
Iron of all kinds ...	4,532	2,964	73,056	47,073	...	1,568	3,475	81
							...	...
								25,983

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

Description.	Quantity. 1st half, 1870.	1st half, 1871.	Receipts. 1st half, 1870.	1st half, 1871.	Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	TONS.	TONS.	RS.	RS.	TONS.	TONS.	RS.	RS.
Jaggery	2,198	2,195	24,867	17,449	...	3	...	7,418
Luggage	200	238	5,730	6,258	38	...	528	...
Oil of all kinds	3,221	3,383	33,733	32,248	162	...	...	1,485
Ordnance Stores ...	134	189	3,801	7,072	55	...	3,271	...
Paddy	842	1,071	3,358	4,188	229	...	830	...
Pitch, Tar, and Asphalte	35	24	519	353	...	11	...	166
Potatoes	1,355	1,454	17,295	18,004	99	...	709	...
Powder and Ammunition	75	35	4,763	2,416	...	40	...	2,347
Raggy	2,526	1,645	26,984	13,069	...	881	...	13,915
Rice	13,708	23,769	93,913	1,95,886	10,061	...	1,01,973	...
Salt	25,331	22,279	1,85,667	1,64,721	...	3,052	...	20,946
Saltfish	1,129	917	14,608	9,045	...	212	...	5,563
Saltpetre	278	176	4,176	3,331	...	103	...	845
Seeds of all kinds ...	5,843	4,363	69,557	46,608	...	1,480	...	22,949
Skins	1,600	1,850	27,308	30,239	250	...	2,931	...
Sugar of all kinds ...	1,080	1,446	10,117	13,981	366	...	3,864	...
Sundries	16,563	17,073	2,46,585	2,27,360	510	...	...	18,225
Tamarind	3,468	3,766	28,553	23,174	298	...	...	5,379
Timber	5,712	4,115	35,360	26,694	...	1,597	...	8,666
Tobacco	2,238	2,231	14,692	14,316	...	7	...	376
Twist	1,200	1,241	30,999	31,490	41	...	491	...
Wines and spirituous liquors ...	1,454	1,360	26,932	24,650	...	94	...	2,282
Total...	141,565	140,896	14,77,030	14,99,752	18,297	18,966	2,52,306	2,29,584

TABLE D.

*Statement of Mileage maintained.**

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Departmentally	By contract.	Total.	1st half of 1871. Departmentally	By contract.	Total.	Total increase.	Total decrease.
IX. (A.)	...	1. Mean miles of line maintained. Single...	645½	...	645½	677½	...	677½	32	...
		2. " Double...	...	...	...	...	...	...	...	...
		3. " Total...	645½	...	645½	677½	...	677½	32	...
		4. " Sidings maintained, Total...	76	...	76	77½	...	77½	1½	...
		5. " Single Track Total, including Sidings.	721½	...	721½	754½	...	754½	33½	...

* From Revenue Funds.

TABLE D.-I.

Statement of Train Mileage.

	Details. Reference to Revenue Account.	Train Miles run for: Traffic Department. XIV.-1.	Locomotive Department. XIV.-2.	Maintenance Department. XIV.-3.	Hours of: Assisting Engines. XIV.-4.	Shunting, Piloting, etc. XIV.-5.	Miscellaneous Services. XIV.-6.
1	1st half, 1870 ... Passenger...	749,668	22,731	26,727	20½	15,407	816
	Goods ...						
	Mixed ...						
	Total...	749,668	22,731	26,727	20½	15,407	816

Statement of Train Mileage—(Concluded.)

	Details.	Train Miles run for: Traffic Department.	Locomotive Department.	Maintenance Department.	Hours of: Assisting Engines.	Shunting, Piloting, etc.	Miscellaneous Services.
	Reference to Revenue Account.	XIV.-1.	XIV.-2.	XIV.-3.	XIV.-4.	XIV.-5.	XIV.-6.
2	1st half, 1871 ... Passenger... Goods ... Mixed ...	813,647	52,540	87,130	19	18,881	2,099
	Total...	813,647	52,540	87,130	19	18,881	2,099
3	Increase in 1871. Passenger... Goods ... Mixed ...	63,979	29,809	60,403	...	3,474	1,283
	Total...	63,979	29,809	60,403	...	3,474	1,283
4	Decrease in 1871. Passenger... Goods ... Mixed ...	...	...	...	1½	...	...
	Total...	...	...	...	1½	...	...

TABLE E.

Maintenance of Way, Works, and Stations.

RAILS.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.	Per mile of line maintained. D.-3.	Per mile of Track, including Sidings. D.-5.	Per Train Mile.	Per 1,000 Ton Miles.
XIV.	...	Train Mileage (D.-I. 1., page 7). Ton Mileage (M.-I. 22, page 16)	799,126 ...	953,317 150,744,512	154,191 ...	... ...				
If done departmentally. IX. (A.) 1.	1 & 2	SUPERINTENDENCE— Engineers' salaries and allowances	RS. 30,099	RS. 31,064	RS. 965	RS. ...	RS. 41·2	RS. 41·17	AS. 0·52	RS. 0·21
	3 to 5	Inspectors' and Plate-layers' salaries and allowances, including overtime ...	16,061	12,849	...	3,212	17·0	17·03	0·22	0·08
	6	Office expenses	9,869	8,891	...	978	11·8	11·78	0·15	0·06
		MAINTENANCE AND RENEWAL OF PERMANENT WAY—								
2	1	Wages	1,36,804	1,30,357	...	6,447	172·8	172·77	2·19	0·86
	2	Materials	1,11,982	1,02,055	...	9,927	135·3	135·26	1·71	0·63
		REPAIRS OF BRIDGES, ETC.—								
		WAGES AND MATERIALS—								
3	1	Bridges and Tunnels ...	11,144	1,30,095	1,18,951	...	172·4	172·42	2 18	0·86
	2	Miscellaneous ...	29,348	28,358	...	990	37·6	37·59	0·48	0·19
		REPAIRS OF STATIONS AND BUILDINGS—WAGES AND MATERIALS—								
4	1	Repairs of all except Staff quarters	29,054	24,009	...	5,045	31·8	31·82	0 40	0·16
	2	Repairs of Staff quarters...	5,615	6,293	678	...	8·3	8·34	0·10	0·04
5	...	MAINTENANCE BY CONTRACT ...	...	.....	...	...	...	...	...	...
		UNCLASSIFIED EXPENDITURE—								
6	1	Plantations	...	.....	...	...	...	...	...	...
	2	Tools and Plant... ...	2,461	20,738	18,277	...	27·5	...	...	...
	3	Loss on stores, etc. ...	12,532	.....	...	12,532	...	27·49	0·35	0·14
		Total...	3,94,969	4,94,709	1,38,871	26,599	655·7	655·67	8·30	3·28

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TABLE E.-I.

Maintenance of Way.

RAILS.

No.	Details.	Double-headed. 84 lbs.	Double-headed. *75 lbs.	Bridge. lbs.	Flat-footed. lbs.	Steel.	Total.
		M. CH. F.	M. CH. F.	M. CH. F.	M. CH. F.	M. CH. F.	M. CH. F.
1	Miles of rail in way, including sidings ...	1,022 53 37	653 65 8	0 22 34	.....	149 47 10	1,826 28 23
2	Average age of rails in way at the middle of the half-year	...	...	...	...	...	YRS. M. DS. 7 9 9
3	Rails inverted... Number	...	...	...	...	...	2,077
	Miles	...	...	...	...	...	M. CH. F. 529 40 16½
4	Proportion inverted per mile of (1) rail ...	...	...	...	...	...	3·92
5	Rails renewed... Number	...	...	...	...	...	2,797
	Miles	...	...	...	...	...	M. CH. F. 770 9 58½
6	Proportion renewed per mile of (1) rail ...	...	...	...	...	...	3·63
7	Average number of tons hauled over each kind of rail in the half-year	...	...	...	...	...	...
8	Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2)	...	...	...	...	...	...

*Includes ... ... M. CH. F. 0 12 58 of 65 lbs. rails.

TABLE E.-II.

Maintenance of Way.

SLEEPERS.

No.	Details.	Wood. Transverse. Teak, 10′×10″×5″	Sal, 10′×10″×5″	Jungle, 10′×9″×5″	Ironwood, 10′×10″×5″	Total.	Wood. Longitudinal Sal Sleeper, 10″×5″	Iron. Bowls.	Iron. Sibley's Wrought-iron Sub-way.
1	Number of sleepers in way, including sidings	No. 17,272	No.	No. 271,655	No. ...	288,927	LINL. Y. ...	No. 2,471·009	LINL. Y. ...
2	*Average age of sleepers in way at the middle of the half-year.	YRS. M. DS. 6 6 26	YRS. M. DS.	YRS. M. DS. 5 3 20	YRS. M. DS. ...	YRS. M. DS. 11 10 16	YS. M. DS. ...	YS. M. DS. 5 8 13	YS. M. DS. ...
3	Number renewed ...	537	.....	16,822	...	17,359	...	11,714	...
4	Do. per cent. of (1)...	3·11	.....	6·19	...	9·30	...	0·47	...

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.	Per Train Mile.	Per 1,000 Ton Miles.
XIV.	...	Train Mileage (D.—I. 1, page 7) ...	799,126	953,317	154,191	...		
		Ton Mileage (M.—I. 22, page 16) ...	...	150,744,512	...	...		
IX. (B.) 1.	1 & 2	GENERAL SUPERINTENDENCE— Salaries of Locomotive Superintendents and Assistants, including allowances	RS. 4,918	RS. 9,833	RS. 4,915	RS. ...	RS. 0·16	RS. 0·06
	3 to 5	Do. of Foremen, including allowances and overtime	17,859	20,363	2,504	...	0·34	0·13
	6	Office expenses	12,451	13,263	812	...	0·22	0·09

Locomotive Department Expenses—(Concluded.)

Reference to Revenue Account.		Details.	1st half of 1870.	1st half of 1871.			Per Train Mile.	Per 1,000 Ton Miles.
Table and main head.	Sub-head.		Total.	Total.	Increase.	Decrease.		
			Rs.	Rs.	Rs.	Rs.	As	Rs.
		Running Expenses—						
2	1 & 2	Wages of Drivers and Firemen, including overtime	88,808	91,180	2,372	...	1·53	0·60
	3	Fuelling, cleaning, and looking after engines	15,943	17,298	1,355	...	0·29	0·11
	4	Contingent expenses	576	1,138	562	...	0·02	0·01
3	1	Fuel.— Coal					0·60	0·24
	2	Coke	6,455	35,667	29,212	...	1·47	0·58
	3	Patent Fuel	66,235	87,404	21,169	...	0·24	0·10
	4	Wood	68,827	14,444	...	54,383	1·76	0·70
4	1, 2 & 3	Water	85,178	1,05,128	19,950	...	0·22	0·09
5	...	Oil, Tallow, etc.	10,985	13,219	2,234	...	0·20	0·08
6	1 & 2	Maintenance and Renewals— Wages, including overtime ...	16,223	11,698	...	4,525	1·30	0·51
7	3	Materials	63,823	77,296	13,473	...	1·02	0·40
8	...	Services of other Lines	90,560	60,776	...	29,784	0·01	0·00
	...	Unclassified expenditure ...	...	294	294	...	...	...
		Total...	5,48,841	5,59,001	98,852	88,692	9·38	3·70

			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	258	1,544	1,286	...	3·63	22·94
	2	Coke do.	41,396	2,658	...	38,738	6·25	39·50
	3	Patent fuel consumed	43,016	499	...	42,517	1·17	7·41
	4	Wood consumed	19,013	23,466	4,453	...	55·14	348·69

TABLE F.-I.

Locomotive Power.

Reference to Revenue Account.		Description.	Passenger.	Passenger.	Goods.	Tank.	Total.
Table and main head.	Sub-head.						
		Locomotives.— Wheels coupled...	...	...	104	10	114
		Weight on driving axle ...	...	14	T. C. 10 12 to 12 3 Q. 2	T. C. 8 16 to 13 6	...
		Total weight in steam, exclusive of tender ...	...	Tons. Cwt. 24 15	T. C. 26 14 to 34 8	T. C. Q. 25 7 1 to 27 3 3	...
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department ...	...	2	104	20	126
		2.—Average number of Locomotives constantly under repairs	...	1	15	4	20
		3.—Average number of Locomotives at work (1—2) ...	...	...	57	4	61
		4.—Train miles hauled by each class of Locomotives at work (3)	...	...	1,042,362	76,452	1,118,814
		5.—Average train miles hauled by each Locomotive at work (3.)	...	...	...	...	...
		Per half-year ...	...	...	10,636	5,461	16,097
		Per day	...	...	101	104	205

Locomotive Power—(Concluded.)

Reference to Revenue Account.		Description.	Passenger.	Passenger.	Goods.	Tank.	Total.
Table and main head.	Sub-head.						
...	...	6.—Average speed between stations of trains. Passenger.	...	...	...	...	24
		Goods ...	...	...	...	...	15¼
		Mixed ...	...	...	...	...	18
		7.—Average through speed of trains. Passenger.	...	...	...	...	23
		Goods ...	...	...	...	...	14¾
		Mixed ...	...	...	...	...	16¼
					lbs.	lbs.	
		8.—Weight of coal, etc., used per train mile. *To be separated, if possible, among the classes of Locomotives.*	...	...	25·72	9·07	...
		9.—Weight of wood used per train mile.	...	...	80·49	*5·19	...
		10.—Average gross weight of the trains hauled by each class of Locomotive	...	...	...	...	Tons. 969,413·40

*The Tank Engines burned coke and coal exclusively during this half-year; the wood shown as used by them was for lighting purposes only.

TABLE G.

Carriage and Waggon Expenses.

Reference to Revenue Account.		Details.	1st half of 1870.	1st half of 1871.		
Table and main head.	Sub-head.		Total.	Total.	Increase.	Decrease.
XIV.	...	Train Mileage (D. I. 1, page 7) ...	749,668	813,647	63,979	...
		Vehicle Mileage. Coaching (M.-I. 8, page 16)	...	3,790,464	...	...
		Goods (M.-I. 14, page 16.) ...	...	7,093,473	...	...
		Total...	...	10,883,937	...	...

			1st half of 1870.	1st half of 1871.				
			Total.	Total.	Increase.	Decrease.	Cost per Train mile.	Cost per 1,000 vehicle miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
		General Superintendence—					0·03	0·14
IX (C.) 1	1 & 2	Salaries of Superintendents and allowances	329	1,480	1,152	...	0·06	0·28
	3 to 5	Salaries of Foremen and allowances, including overtime.	1,883	3,020	1,137	...	0·04	0·18
	6	Office expenses	1,246	1,985	739	...		
		Repairs and Renewals of Vehicles and Machinery—					0·10	(a) 1·34
		Coaching Vehicles. Wages, including overtime	5,610	5,069	...	541	0·17	(a) 2·39
2	1 to 3	Materials	9,869	9,070	...	799		
		Goods Vehicles. Wages, including overtime	6,769	11,497	4,728	...	0 23	(b) 1·62
	1 to 3	Materials	16,796	26,397	9,601	...	0·51	(b) 3·72
		Cleaning and Oiling—					0·14	0·64
3	1	Labour, including wages of Oilers, etc.	5,009	6,970	1,961	...	0·43	2·02
4	2	Stores	18,034	21,956	3,872	...	...	...
	...	Unclassified Expenditure ...	...	...	...	...	1·71	8·03
		Total...	65,594	87,444	23,190	1,340		

Locomotive Department Expenses—(Concluded.)

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	As	Rs.
	1 & 2	Running Expenses— Wages of Drivers and Firemen, including overtime	88,808	91,180	2,372	...	1·53	0·60
2	3	Fuelling, cleaning, and looking after engines	15,943	17,298	1,355	...	0·29	0·11
	4	Contingent expenses	576	1,138	562	...	0·02	0·01
3	1	Fuel— Coal					0·60	0·24
	2	Coke	6,455	35,667	29,212	...	1·47	0·58
	3	Patent Fuel...	66,235	87,404	21,169	...	0·24	0 10
4	4	Wood	68,827	14,444	...	54,383	1·76	0·70
5	1, 2 & 3	Water	85,178	1,05,128	19,950	...	0·22	0 09
...	...	Oil, Tallow, etc.	10,985	13,219	2,234	...	0·20	0·08
6	1 & 2	Maintenance and Renewals— Wages, including overtime ...	16,223	11,698	...	4,525	1·30	0·51
7	3	Materials	63,823	77,296	13,473	...	1·02	0 40
8	...	Services of other Lines	90,560	60,776	...	29,784	0·01	0·00
...	...	Unclassified expenditure ...	...	294	294	...	...	...
		Total...	5,48,841	5,59,001	98,852	88,692	9·38	3 70

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	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	258	1,544	1,286	...	3·63	23·94
	2	Coke do.	41,396	2,658	...	38,738	6·25	39·50
	3	Patent fuel consumed	43,016	499	...	42,517	1·17	7·41
	4	Wood consumed	19,013	23,466	4,453	...	55·14	348·69

TABLE F.-I.

Locomotive Power.

Reference to Revenue Account. Table and main head.	Sub-head.	Description.	Passenger.	Passenger.	Goods.	Tank.	Total.
		Locomotives.— Wheels coupled...	...	...	104	10	114
		Weight on driving axle ...	...	14	T. C. T. C. Q. 10 12 to 12 3 2	T. C. T. C. 8 16 to 13 6	...
		Total weight in steam, exclusive of tender ...	...	Tons. Cwt. 24 15	T. C. T. C. 26 14 to 34 8	T. C. Q. T. C. Q. 25 7 1 to 27 3 3	...
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department ...	...	2	104	20	126
		2.—Average number of Locomotives constantly under repairs	...	1	15	4	20
		3.—Average number of Locomotives at work (1—2) ...	...	...	57	4	61
		4.—Train miles hauled by each class of Locomotives at work (3)	...	...	1,042,362	76,452	1,118,814
		5.—Average train miles hauled by each Locomotive at work (3.)	...	...	...	...	...
		Per half-year ...	...	...	10,636	5,461	16,097
		Per day	...	...	101	104	205

Locomotive Power—(Concluded.)

Reference to Revenue Account. Table and main head.	Sub-head.	Description.	Passenger.	Passenger.	Goods.	Tank.	Total.
...	...	6.—Average speed between stations of trains. Passenger.	...	...	...	...	24
		Goods ...	...	...	...	...	15½
		Mixed ...	...	...	...	...	18
		7.—Average through speed of trains. Passenger.	...	...	...	...	23
		Goods ...	...	...	...	...	14½
		Mixed ...	...	...	...	...	16½
					lbs.	lbs.	
		8.—Weight of coal, etc., used per train mile. *To be separated, if possible, among the classes of Locomotives.*	...	...	25·72	9·07	...
		9.—Weight of wood used per train mile.	...	...	80·49	*5·19	...
		10.—Average gross weight of the trains hauled by each class of Locomotive ...	...	...	...	...	Tons. 969,413·40

*The Tank Engines burned coke and coal exclusively during this half-year; the wood shown as used by them was for lighting purposes only.

TABLE G.

Carriage and Waggon Expenses.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.
XIV.	...	Train Mileage (D. I. 1, page 7) ...	749,668	813,647	63,979	...
		Vehicle Mileage. Coaching (M.-I. 8, page 16) ...	...	3,790,464	...	...
		Goods (M.-I. 14, page 16.) ...	...	7,093,473	...	...
		Total...	...	10,883,937	...	...

Reference to Revenue Account. Table and main head.	Sub-head.	———	1st half of 1870. Total.	1st half of 1871. 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	328	1,480	1,152	...	0·03	0·14
	3 to 5	Salaries of Foremen and allowances, including overtime.	1,883	3,020	1,137	...	0·06	0·28
	6	Office expenses	1,246	1,985	739	...	0·04	0·18
		Repairs and Renewals of Vehicles and Machinery—						
2	1 to 3	Coaching Vehicles. Wages, including overtime	5,610	5,069	...	541	0·10	(a) 1·34
		Materials	9,869	9,070	...	799	0·17	(a) 2·39
		Goods Vehicles. Wages, including overtime	6,769	11,497	4,728	...	0 23	(b) 1·62
		Materials	16,796	26,397	9,601	...	0·51	(b) 3·72
3	1	Cleaning and Oiling— Labour, including wages of Oilers, etc.	5,009	6,970	1,961	...	0·14	0·64
			18,084	21,956	3,872	...	0·43	2·02
4	2	Stores	...	...	...	...	...	...
...	...	Unclassified Expenditure ...	...	...	...	...	...	...
		Total...	65,594	87,444	23,190	1,340	1·71	8·03

TABLE II.

Traffic Expenses.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.
XIV.	...	Train Mileage (D.—I. 1, page 7) ...	749,668	813,647	63,979	...
		Vehicle Mileage. Coaching (M. I 8, page 16)	...	3,790,464	...	...
		Goods (M—I. 14, page 16)	...	7,093,473	...	...
		Total...	...	10,883,937	...	...

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
IX. (D.) 1	a (1 & 3)	Salaries, Wages, etc.— General superintendence, including travelling allowances.	25,018	27,085	2,067	...	0·53	2·49
	a (2 & 4)	Office Establishment and Contingencies	14,615	15,338	723	...	0 30	1·41
	b	Station Staff	94,976	1,07,844	12,868	...	2·13	9·91
2	c	Train Staff	21,183	26,312	5,129	...	0·52	2·42
3	1 to 3	Fuel, Lighting, Water, and General Stores	24,401	30,200	5,799	...	0·59	2 77
4	...	Clothing	539	5,911	5,372	...	0·12	0·54
5	...	Printing, Stationery, and Tickets	12,745	14,995	2,250	...	0·29	1·38
6	...	Cattle used for traffic purposes, and delivery and collection of goods	...	...	...	...	...	...
		Miscellaneous expenses ...	112	214	102	...	...	0·02
7	1	Payments to other Lines— Hire of Vehicles ...	66,003	...	...	66,003	...	...
	2	Mileage of foreign stock ...	...	218	218	...	0·01	0·02
	3	Expenses at joint stations ...	...	...	...	...	...	...
8	...	Unclassified Expenditure ...	...	...	...	...	...	...
		Total...	2,59,592	2,28,117	34,528	66,003	4·49	20·96

TABLE J.

General Charges.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	As.
IX. (E.) 1	...	Home Expenditure	13,020	6,130	...	6,890	0·12
		Indian Management—					
	1	Agent's Office, including travelling and other allowances	9,909	4,176			
	2	Auditor's Office, do.	16,796	13,609	...	5,733	0·08
2	3	Accounts Office, do.	4,915	1,431	...	3,187	0·27
	4	Paymaster's Office, do.	10,046	6,099	...	3,484	0·03
	5	Store Department, do.	11,363	2,419	...	3,947	0·12
	6	Medical Department, do.	8,507	8,042	...	8,944	0 05
	7	Rents	1,020	495	...	465	0·16
	8—10	Contingencies, Stationery, and Medicine ...	6,427	1,970	...	525	...
3	...	Police *(total charges)*	5,003	8,163	...	4,457	0·04
4	...	Advertising	1,089	1,462	3,159	...	0·16
5	1 to 4	Electric Telegraph— Salaries, etc.	12,439	15,235	373	...	0·03
	5	Maintenance (labour and stores)	8,802	12,276	2,796	...	0·30
6	...	Clearing accounts with other Lines ...	...	...	8,474	...	0·24
7	...	Unclassified Expenditure— Loss on Stores	977	...	...	...	...
		Total...	1,10,313	81,512	9,802	38,603	1·60

TABLE K.

Steam Boat Service.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st 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.

Reference to Revenue Account. Table and main head.	Sub-head.	Details.	1st half of 1870. Total.	1st half of 1871. Total.	Increase.	Decrease.
			Rs. 282	Rs. 4,920	Rs. 4,638	Rs. ...
IX. (G.) 1	...	Law Charges	14,407	11,460	...	2,947
2	1	Compensation— For goods lost or damaged	...	...	...	...
	2	Personal injury	...	25	25	...
	3	For other claims	56,042	28,644	...	27,398
3	...	Rates and Taxes	20,727	11,985	...	8,742
4	1	Contributions to Special Funds— Fire Insurance Fund	...	...	...	...
	2	P. W. Renewal Fund	...	...	...	...
	3	Casualty Fund	...	...	...	...
		Total...	91,458	57,034	4,663	39,087

Analysis of Carrying Cost.

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 adopted in these calculations.

	Tons.	Cwt.
Coaching—		
1st Class Passenger with free luggage ...	0·0875	1·75
2nd " " ...	0·0875	1·75
3rd " " ...	0·0625	1·25
4th " " ...	0·0625	1·25
A carriage (average for 2 and 4-wheeled).	0·3375	6·75

	Cwt.	Tons.
Coaching—(Cont.)		
A Horse ...	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

	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 " ...	222,223	788,613	3·549	0·3105	6·7000	7·0105	0·0443	1,557,895	...	...
3	3rd " ...	822,241	3,203,135	3·896	0·3409	6·7735	7·1144	0·0479	5,849,751	...	...
4	4th " ...	1,965,353	46,382,946	23·600	1·4750	6·3391	7·8141	0·1888	15,357,471	...	...
		211,452	4,591,700	21·715	1·3572	6·0000	7·3572	0·1845	1,555,695	...	...

Analysis of Carrying Cost—(Concluded.)

	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—(*Concluded.*)										
5	Carriage Trucks ...	71,897	68,905	0·958	0·3235	5·0625	5·3860	0·0601	387,237	...	...
6	Dog Boxes...	7,051	273,059	38 726	0·3873	6·9305	7·3178	0·0529	51,598	...	...
	Horse Boxes.	266,251	433,437	1·628	0·7122	7·0875	7·7997	0·0915	2,071,901	...	
7	Luggage Vans ...	223,996	89,864	...		0·4012	7·2500	7·6512	0·0588	1,527,460	...
8	Total, Coaching Vehicle Mileage ...	3,790,464	...	...	...	...	...	...	...	...	...
9	Passenger Engines and Tenders ...	323,346	...	...	...	...	40·5402	...	...	13,108,477	...
10	Passenger Brake Vans.	250,228	...	...	0·1250	8·2627	8 3877	...	...	2,098,841	...
11	Total, Coaching Ton Mileage ...	...	...	...	...	...	...	...	28,359,008	15,207,318	43,566,326
	GOODS—										
12	Goods Vehicles ...	7,093,473	22,646,506	...	3·1926	5·4411	8·6337	0·3698	61,242,928	...	...
13	* Minerals (public)...	...	...	...	...	...	...	...	...	...	...
14	Total Goods Vehicle Mileage ...	7,093,473	...	...	...	...	...	...	...	...	...
15	Goods Engines and Tenders.	698,285	...	...	...	...	...	...	...	...	...
16	Goods Brakes	540,383	...	...	...	40·5402	...	...	...	28,308,616	...
17	Total Goods Ton Mileage.	...	...	...	0·1250	8·2627	8·3877	...	...	4,532,562	...
	MISCELLANEOUS—								61,242,928	32,841,178	94,084,106
	FOR POST OFFICE ...	238,410	...	...	Say 0·5000	6·8755	7·3755	...	1,758,394	...	...
	FOR STORES CARRIED FREE ON REVENUE ACCOUNT—										
18	For Traffic Department.										
19	For Locomotive Dept.	700,468	2,646,804	...	3·7786	5·8793	9·6579	0·3912	6,765,050	...	...
20	For Engineering Department ...										
	For Miscellaneous Engines and Tenders ...	97,183	...	...	...	40·5402	...	...	...	...	...
	For Miscellaneous Brake Vans.	75,208	...	...	0·1250	8·2027	8·3877	...	...	3,939,819	...
21	Total, Miscellaneous Ton Mileage ...	...	...	...	...	...	...	...	...	630,817	...
22	Total, Gross Ton Mileage	...	...	...	...	...	...	...	8,523,444	4,570,636	13,094,080
									98,125,380	52,619,132	150,744,512

M.-II.

Division between Coaching and Goods of the expenditure of Departments.

Details.	Maintenance. (a)	Locomotive. (b)	Carriage and Waggon. (c)	Traffic. (d)	General. (e)	Special and Miscellaneous.	Total.
Expenses due to Coaching	144,513	166,589	25,187	79,327	25,661	17,978	459,255
,, ,, to Goods...	312,184	359,760	58,424	147,407	55,416	38,825	972,016
Total...	456,697	526,349	83,611	226,734	81,077	56,803	1,431,271

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.	Dog boxes.	Total, Coaching	Goods vehicles.	Mineral trucks.
Maintenance (*a*) ...	7,939	29,809	78,259	7,928	1,973	10,558	7,784	263	144,513	312,184	...
Locomotive (*b*) ...	9,151	34,363	90,214	9,139	2,275	13,171	8,973	303	166,589	359,760	...
Carriage and Waggon (*c*) ...	1 477	5,464	13,059	1,405	478	1,769	1,488	47	25,187	58,424	...
Traffic (*d*)	4,651	17,208	41,131	4,425	1,505	5,572	4,688	147	79,327	147,407	...
General (*e*)	1,504	5,567	13,305	1,431	487	1,803	1,516	43	25,661	55,416	...
Special and Miscellaneous...	1,054	3,900	9,322	1,003	341	1,263	1,062	33	17,978	38,825	...
Total...	25,776	96,311	245,290	25,331	7,059	33,136	25,511	841	459,255	972,016	...

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.	Dog boxes.	Goods vehicles.
	PIES.	PIES.	PIES.	PIES.	PIES.	PIES.	PIES.	PIES.	PIES.
Maintenance*	6·859	6·961	7·615	7·198	5·270	7·614	6·672	7·160	8·451
Locomotive*	7·907	8·024	8·813	8 2·8	6 075	8·777	7·691	8·253	9·716
Carriage and Waggon* ...	1·276	1·276	1·276	1·276	1·276	1·276	1·276	1·276	1·583
Traffic*	4·018	4·018	4·018	4·018	4·018	4·018	4·018	4·018	4·018
General*	1·300	1·300	1·300	1·300	1·300	1·300	1·300	1·300	1·300
Special and Miscellaneous ...	0·911	0·911	0·911	0·911	0·911	0·911	0·911	0 911	0·911
Total...	22·271	22·490	23·963	23·001	18·850	23·896	21·868	22·918	25·978
Cost per unit†...	6·2756	5·7730	1·0154	1·0592	19·6695	14·6783	54·5058	0·5913	8·2409

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. (*a*)	Actual cost per unit per mile. (*b*)	Profit or loss per unit per mile.	Proportion per cent. of profits to receipts.
COACHING—			PIES.	PIES.
1st Class	PIES. 15·9699	PIES. 6·2756	9·6943	60·704
2nd ,, ...	5·2181	5·7730	.....	.....
3rd ,, ...	2·9810	1·0154	1·9656	65·939
4th ,, ...	2·0378	1·0592	0·9786	48·022
Carriages	24·4371	19·6695	4·7676	19·510
Horses	9·3697	14·6783	.....	.....
Luggage	55·2260	54·5058	0·7202	1·304
Dogs	1·6883	·5913	1·0970	64·978
GOODS—				
Goods	13·7293	8·2409	5·4874	39·972
Minerals	.....	.....	.....	.....

MADRAS,
9th December 1871.

(Signed) H. L. PRENDERGAST, Major, R. E.,
Acting Consulting Engineer for Railways.

DR. *Revenue Account for the half-year ending 30th June 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.)	4,94,708 7 0	17·76	By Coaching Traffic (Abstract II.) ...	10,70,546 14 0
,, Locomotive Expenses (Abstract B.) ...	5,59,000 15 2	20·06	,, Goods Traffic (Abstract I.) ...	16,19,255 11 9
,, Carriage and Waggon Expenses (Abstract C.)	87,443 10 5	3·14	,, Electric Telegraph Earnings ...	10,309 14 4
,, Traffic Expenses (Abstract D.) ...	2,28,117 1 1	8·19	,, Sundries (Abstract K.)	86,308 7 7
,, General Charges (Abstract E.) ...	81,512 6 0	2·92		
,, Special and Miscellaneous Expenditure (Abstract G.)	57,034 5 11	2·04		
	15,07,816 13 7	54·11		
,, Balance Net Earnings	12,78,604 2 1	45·89		
Total...	27,86,420 15 8	100·00	Total...	27,86,420 15 8

ABSTRACT A.

Maintenance of Way, Works, and Stations.

	RS. A. P.	RS. A. P.
1ST.—SALARIES, OFFICE EXPENSES, AND GENERAL SUPERINTENDENCE—		
(1.)—Engineers' salaries	*27,394 7 6	
(2.)—Allowances, including travelling expenses of all kinds	3,668 14 7 12,740 1 11	
(3.)—Subordinate Superintendents	109 4 7	
(4.)—Allowances of do. do.	.....	
(5.)—Overtime allowances	8,891 6 5	
(6.)—Office expenses ...		52,804 3 0
2ND.—MAINTENANCE AND RENEWAL OF PERMANENT WAY—		
(1.)—Wages	1,30,357 1 2	
(2.)—Materials	1,02,054 11 6	
		2,32,411 12 8
3RD.—REPAIRS OF BRIDGES, ETC.—WAGES AND MATERIALS—		
(1.)—Bridges and Tunnels	1,30,094 7 2	
(2.)—Miscellaneous, including earthwork, roads, fencing, etc.	28,358 2 0	
		1,58,452 9 2

* Includes Home payments, Rupees 1,647.13-1.

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

	RS. A. P.	RS. A. P.
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	24,009 1 1	
(2.)—Repairs of Staff quarters	6,292 14 11	
		30,302 0 0
5TH.—MAINTENANCE BY CONTRACT	.....	.....
6TH.—UNCLASSIFIED EXPENDITURE—	.....	
(1.)—Plantations	20,737 14 2	
(2.)—Tools and Plant	.....	
(3.)—Loss on Stores, etc.		20,737 14 2
Total...	.....	4,94,708 7 0

Miles maintained—	Departmentally.	By Contract.	Total.
Railway Line ... { Double	.....	.....	.....
{ Single	677½	.....	677½
Sidings	77½	.....	77½
Total...	.....	.....	754½

ABSTRACT B.

Locomotive Expenses.

	RS. A. P.	RS. A. P.
1ST.—GENERAL SUPERINTENDENCE—		
(1.)—Salaries of Locomotive Superintendent and Assistants	9,422 2 8	
(2.)—Allowances of do, including travelling allowances	411 8 11 18,762 9 0	
(3.)—Subordinate Superintendents	562 10 3	
(4.)—Allowances, including travelling allowances ...	1,037 3 9	
(5.)—Overtime allowances	13,262 14 0	
(6.)—Office expenses		43,459 0 7
2ND.—RUNNING EXPENSES *(Wages connected with the working of Locomotive Engines)*—		
(1.)—Wages of Drivers and Firemen	74,787 5 6	
(2.)—Overtime allowances	16,392 7 11	
(3.)—All labour connected with fuelling, cleaning, and looking after engines in yards	17,298 3 3	
(4.)—Contingent expenses, including clothing and travelling expenses	1,138 4 0	
		1,09,616 4 8
3RD.—FUEL—		
(1.)—Coal ... ... Cwts. 30,890 $\frac{84}{112}$	35,666 11 4	
(2.)—Coke ... ... ,, 53,159 $\frac{36}{112}$	87,403 8 1	
(3.)—Patent Fuel ... ... ,, 9,986 $\frac{17}{112}$	14,444 11 2	
(4.)—Wood ... ... lbs. 52,564,000	1,05,128 1 11	
		2,42,643 0 6
4TH.—WATER *(including Wages and Stores)*	.....	13,219 2 5
5TH.—OIL, TALLOW, AND OTHER STORES *(expended on Engines in Work)*	.....	11,697 14 2

Locomotive Expenses—(Concluded.)

	Rs. A. P.	Rs. A. P.
6TH.—MAINTENANCE AND RENEWALS OF LOCOMOTIVE ENGINES AND MACHINERY—		
(1.)—Wages	74,757 7 2	
(2.)—Overtime allowances	2,538 7 3	
(3.)—Materials	60,775 8 9	
		1,38,071 7 2
7TH.—PAYMENTS TO OTHER LINES—		
(1.)—Hire of Locomotives	.....	294 1 8
8TH.—UNCLASSIFIED EXPENDITURE—		
Loss on stores, etc.	.....	.....
Total ..	.....	5,59,000 15 2

ABSTRACT C.

Carriage and Waggon Expenses.

		Rs. A. P.	Rs. A. P.
1ST.—GENERAL SUPERINTENDENCE—			
(1.)—Salaries of Superintendents and Assistants ...		1,418 12 4	
(2.)—Allowances, including travelling		60 13 5	
(3.)—Subordinate Superintendents		2,779 2 0	
(4.)—Allowances of do. including travelling ...		83 15 11	
(5.)—Overtime allowances		157 5 6	
(6.)—Office expenses		1,984 13 0	
			6,484 14 2
2ND.—REPAIRS AND RENEWALS OF VEHICLES AND MACHINERY—			
	Rs. A. P.		
Coaching Vehicles... (1.)—Wages ...	4,989 0 4		
(2.)—Overtime ...	80 3 11		
(3.)—Materials ...	9,070 0 9		
		14,139 5 0	
Goods Vehicles..... (1.)—Wages ...	11,346 8 5		
(2.)—Overtime ...	149 14 1		
(3.)—Materials ...	26,397 4 3		
		37,893 10 9	
			52,032 15 9
3RD.—CLEANING CARRIAGES AND WAGGONS, AND OILING—			
(1.)—Labour, including wages of Oilers, Carriage Cleaners, and Examiners		6,969 8 2	
(2.)—Stores, including oil, grease, and other stores for consumption on running vehicles		21,956 4 4	
			28,925 12 6
4TH.—UNCLASSIFIED EXPENDITURE—			
Loss on stores, etc.		.....	.....
Total...		.....	87,443 10 5

ABSTRACT D.

Traffic Expenses.

	Rs. A. P.	Rs. A. P.	Rs. A. P.
1ST.—SALARIES, WAGES, ETC.—			
(a.)—*General Superintendence*—			
(1.)—Traffic Manager, Assistant do., District Superintendents, and Traffic Canvassers	23,542 15 10		
(2.)—Office establishment	11,392 11 2		
(3.)—Travelling allowances	3,541 14 9		
(4.)—Contingencies	3,945 14 9		
		42,423 8 6	

Traffic Expenses.—(Concluded.)

	Rs. A. P.	Rs. A. P.	Rs A. P.
(b.)—*Station Staff*—			
(1.)—Station Masters, Clerks, Porters, Pointsmen, Gatekeepers of Level Crossings, Signalmen, Station Servants, etc.		1,07,843 9 0	
(c.)—*Train Staff*—			
	Rs. A. P.		
(1.)—Guards and Assistant Guards ...	26,145 1 6		
(2.)—Overtime allowances	166 9 0		
		26,311 10 6	
			1,76,578 12 0
2ND.—FUEL, LIGHTING, WATER, AND GENERAL STORES—			
(1.)—Fires, lights, water, and general stores for carriages, stations, offices, etc.		17,784 7 11	
(2.)—Waggon covers, ropes, etc.		12,070 5 4	
(3.)—Office and station fittings and furniture		345 6 0	
			30,200 3 3
3RD.—CLOTHING		.....	5,910 13 9
4TH.—PRINTING, STATIONERY, AND TICKETS		.....	14,995 1 11
5TH.—CHARGES FOR DELIVERY AND COLLECTION OF GOODS, ETC.		.....	.....
6TH.—MISCELLANEOUS EXPENSES		.....	214 0 0
7TH.—PAYMENTS TO OTHER LINES—			
(1.)—Hire of vehicles		.....	
(2.)—Mileage of foreign stock		218 2 2	
(3.)—Expenses at joint stations		.....	218 2 2
8TH.—UNCLASSIFIED EXPENDITURE—			
Loss on stores, etc.		.....	.....
Total ..		.....	2,28,117 1 1

ABSTRACT E.

General Charges.

	Rs. A. P.	Rs. A. P.
1ST.—HOME EXPENDITURE—		
(1.)—Directors and Secretary or Managing Director. (2.)—Auditors and Accountants.	4,802 5 7	
(3.)—Consulting Engineer and Inspecting Officers' fees and travelling allowances	1,327 8 11	
(4.)—Office expenses	.....	
		6,129 14 9

2ND.—SALARIES OF INDIAN MANAGEMENT, INCLUDING OFFICES—

	Salaries.	Travelling allowances.	Contingencies.	
	Rs. A. P.	Rs. A. P.		
(1.)—Agent's Office ...	4,112 2 1	64 6 0	.....	4,176 8 1
(2.)—Auditor's Office...	13,556 5 6	52 6 0	.....	13,608 11 6
(3.)—Accountant'sOffice	1,415 0 9	16 0 2	.....	1,431 0 11
(4.)—Paymaster's (Cashier's) Office...	5,784 8 1	314 12 3	.....	6,099 4 4
(5.)—Store Dept. ...	2,398 3 4	20 15 7	.....	2,419 2 11
(6.)—Medical do. ...	7,975 15 3	66 0 0	.....	8,041 15 3
(7.)—Rents of buildings and lands				494 10 1
(8.)—Contingencies, including furniture and fittings ...				964 13 7
(9.)—Stationery				463 2 0
(10.)—Medicine				541 14 8
				38,241 3 4

General Charges—(Concluded.)

							Rs. A. P.	Rs. A. P.
3rd.—Police—								
(1.)—Supervision	...	...	...	...	...	...	1,200 0 0	
(2.)—Constables	...	...	...	...	...	...	6,783 9 10	
(3.)—Contingencies	...	...	...	...	...	...	178 6 0	
								8,161 15 10
4th.—Advertising *(all advertisements of all Departments)*							.....	1,461 13 2
5th.—Electric Telegraph—								
(1.)—Salaries of Superintendents and Assistants						...	2,982 4 1	
(2.)—Signallers	...	...	...	...	...	...	10,928 2 10	
(3.)—Travelling expenses	...	...	...	...	...	...	662 2 7	
(4.)—Office expenses, contingencies, etc.						...	663 0 7	
(5.)—Maintenance, wages, stores	...	...	...	...	...	...	12,275 13 1	
								27,511 7 2
6th.—Clearing accounts with other Lines	...	...	...	...	...	...	.....	.....
7th.—Unclassified Expenditure—								
Loss on stores, etc.	...	...	...	...	...	...	.....	6 0 0
Total...							.....	81,512 6 0

ABSTRACT G.

Special and Miscellaneous Expenditure.

				Rs. A. P.	Rs. A. P.
1st.—Law Charges	...	...	...	.....	4,920 3 1
2nd.—Compensation—					
(1.)—For goods lost or damaged.	From Fire Insurance Fund ...	Rs. 8,741	6 10		
	From Revenue Fund	2,718	4 2	11,459 11 0	
(2.)—For personal injury	...	...	...	.....	
(3.)—For other claims ...	...	...	...	25 0 0	11,484 11 0
3rd.—Rates and Taxes *(including Municipal Water-rates)*...				.....	*28,643 10 4
4th.—Contributions to Special Funds—					
(1.)—Fire Insurance Fund	...	...	...	.....	20,727 4 4
			Total...	.....	65,775 12 9
Deduct sum chargeable to Fire Insurance Fund	...	...	...	.....	8,741 6 10
				.....	57,034 5 11

* Assessment on buildings, etc., for the years 1870-71. Rs. 3,948 11 7
Income-tax on net traffic earnings for the year ending 31st March 1871, fourth instalment ... 24,694 14 9
Total... 28,643 10 4

Proceedings of the Madras Government, Public Works Department, 22nd January 1872.

ABSTRACT H.

Coaching Traffic.

Mileage Fares.	First Class. Rs. A. P. Day... 0 1 6 Night. 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.
		Rs. A.		Rs. A.		Rs. A. P.		Rs. A.		Rs. A. P.
1st.—Passengers— Single journeys ...	3,033	45,771 14	52,335	79,964 4	8,43,491	6,71,002 13 2	1,23,676	48,734 14	1,022,535	8,45,473 13 2
Excess fares.	110	601 15	444	526 12	8,516	2,234 10 10	...	...	9,070	3,363 5 10
Return journeys ...	2,244	18,140 8	3,072	4,296 14	67,610	22,017 7 8	...	...	72,926	44,454 13 8
Troops and Police ...	36	1,079 5	349	2,266 8	10,595	24,863 13 0	...	...	10,980	28,209 10 0
Total...	5,423	65,593 10	56 200	87,054 6	9,30,212	7,20,118 12 8	1,23,676	48,734 14	1,115,511	9,21,501 10 8
Season Ticket.	1	...	...	...	...	...	...	...	1	...

		Ton Miles.	
2nd.—Passengers' Luggage	...	70,614	20,434 11 0
3rd.—Military Baggage	...	19,250	5,412 13 0
4th.—Carriages, Horses, Dogs, etc.—		No.	
(1.)—Carriages	...	406	8,721 12 0
(2.)—Horses	...	1,348	20,482 7 0
(3.)—Dogs	...	1,648	2,400 12 0
			31,604 15 0
5th.—Military Carriages, Horses, etc.—			
(1.)—Carriages	...	2	48 6
(2.)—Horses	...	29	670 0
(3.)—Dogs	...	...	...
			718 6 0
6th.—Parcels ...	...	29,188	49,144 3 9
		Train Miles.	
7th.—Special Trains	...	5,010	40,021 0 0
8th.—Post Office—			
(1.)—Haulage and hire of Post Office vehicles	No. of Vehicles	...	...
	Mileage of do.	...	...
(2.)—Special Trains	...Train Miles	...	...
(3.)—Parcels ...	...	...	1,709 2 7
			1,709 2 7
	Total...	...	10,70,516 14 0

ABSTRACT I.

Goods Traffic.

	Rate per ton per mile.	Ton miles.	Amount. Rs. A. P.
1st.—Merchandize, General—			
1st Class	12 Pies...	10,990,079	5,51,881 1 7
2nd ,, ...	14 ,, ...	3,794,081	2,84,319 12 9
3rd ,, ...	18 ,, ...	3,182,194	2,79,409 14 5
4th ,, ...	24 ,, ...	1,052,741	1,28,801 15 2
5th ,, ...	36 ,, ...	668,889	1,33,124 15 2
Special ,, ...	8 ,, ...	2,727,330	1,11,477 11 2
		22,415,314	14,89,015 6 3
		71,461	10,736 15 0
2nd.—Military Stores	.....	1,352,185	1,05,800 15 2
3rd.—Railway materials for construction ...	.....	.....	.....
4th.—Minerals—		.....	.....
(1.)—For the Public	.....	...	... ..
(2.)—For the Company (construction only) ...	.....	.....	... ..
5th.—Live Stock—			
(1.)—Horses	.....	20,802	2,989 9 0
(2.)—Cattle	.....	24,467	2,529 12 0
(3.)—Sheep	.....	3,182	676 6 0
		48,451	6,195 11 0
6th.—Military Live Stock—			
(1.)—Horses	.....	21,663	3,113 4 0
(2.)—Cattle	.....	784	81 1 0
(3.)—Sheep	.....	...	.....
		22,447	3,194 5 0
7th.—Rents and demurrage, wharfage, storage, etc.	.....	.....	3,902 2 4
8th.—Interest on outstanding bills	.....	.....	410 5 0
Total...	.....	.....	16,19,255 11 9

ABSTRACT K.

Sundries.

	Amount. Rs. A. P.
Interest on Revenue Balances deposited with Government	9,763 5 5
Hire of locomotives	32,152 15 11
Hire of vehicles	3,164 7 8
Mileage of vehicles and sheets over foreign lines	668 4 1
Use of stations jointly occupied	6,314 2 8
Clearing accounts with other lines	.....
Tolls on bridges	.....
Rents of dwelling-houses	13,163 12 7
Do. of refreshment-rooms	5,880 4 9
Fees on share transfers, etc.	.....
Sale of unclaimed and damaged goods	231 0 1
Sale of Revenue Stores—	
(1.) Maintenance	
(2.) Locomotive	12,653 7 2
(3.) Carriage and Waggon	498 9 6
(4.) Traffic	.....
(5.) General	1,383 4 10
... ...	434 12 11
	14,970 2 5
Total...	86,308 7 7
Electric Telegraph earnings	10,309 14 4

Net Profit Statement.

	Rs. A. P.		Rs. A. P.	Rs. A. P.
To Balance outstanding from last account...	10,563 1 11	By traffic earnings paid to Government during the half-year ending 30th June 1871	29,33,023 14 4	
To gross earnings, as per Revenue Account ...	27,86,420 15 8	Deduct earnings paid in during January and February 1871 taken to account in the half-year ending December 1870.	3,00,553 9 1	26,32,470 5 3
		Add earnings paid in during July and August 1871	1,46,104 6 3	
		Do. interest due by Government for this half-year	9,763 5 5	1,55,867 11 8
				27,88,338 0 11
		Balance, i.e., traffic earnings up to 30th June 1871 unrealized on the 1st September 1871—		
		Traffic Department...	6,144 11 3	
		G. I. P. Railway ...	2,501 5 5	8,646 0 8
				27,96,984 1 7
Total...	27,96,984 1 7	Total...	.....	

	Rs. A. P.
Traffic receipts paid to Government, as per above statement	27,88,338 0 11
Deduct working expenses, as per Revenue Account	15,07,816 13 7
Balance, being net profits for the six months...	12,80,521 3 4

(Signed) J. CRAMP,
Chief Accountant.

(Signed) B. ANDERSON,
Acting Agent and Manager.

Examined and found correct.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) G. R. WALKER, Lieut., R. E.,
Acting Government Examiner.

Approved and passed.

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

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.

Proceedings of the Madras Government, Public Works Department, 22nd January 1872.

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) T. H. GOING,
Acting Chief Engineer.

I HEREBY certify that the certificates given above by the Railway officials are correct.

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

No. 390. ORDER THEREON, 22nd January 1872, No. 199.

RAILWAY, No. 57.

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

(True Extract.)

(Signed) J. CARPENDALE, Colonel, R.E.,
Secretary to Government.

No. 391. (DOCKET No. 200, dated 22nd January 1872.)

Copy of the above forwarded to the Government of India.

Colonel, R.E.,
Secretary to Government.

Exd. A. S. Rodgers.

Madras Railway.

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TABLE A.

GENERAL STATEMENT of Working of half-year ending 30th June 1871.

PUBLIC TRAFFIC.			Passengers of tons of goods carried. Number.	Per cent. of total number and total tonnage.	Earnings. Amount.	Per cent. of total earnings from Coaching and from Goods.	Per-centage of total earnings contributed by each description of traffic.
					Rs.		
Coaching.	Passengers	1st Class	5,314	0·48	65,594	6·13	2·35
		2nd "	55,756	5·04	87,054	8·13	3·12
		3rd "	921,696	83·30	720,119	67·27	25·84
		4th "	123,676	11·18	48,735	4·55	1·75
	Miscellaneous earnings		...	...	149,045	13·92	5·35
		TOTAL...	1,106,442	100·0	1,070,547	100·0	
			Tons.				
Goods	Merchandize	Special	14,518	9·69	1,11,478	6·89	4·00
		1st Class	74,349	49·61	551,881	34·08	19·81
		2nd "	25,029	16·70	284,320	17·56	10·20
		3rd "	17,528	11·69	279,410	17·26	10·03
		4th "	5,558	3·71	128,802	7·95	4·62
		5th "	3,542	2·36	133,125	8·22	4·78
	Railway materials		9,352	6·24	105,801	6·53	3·80
	Minerals		.	0·00	.	0·00	0·00
	Miscellaneous earnings		...	...	24,439	1·51	0·88
		TOTAL...	149,876	100·0	1,619,256	100·0	~~100·0~~
Miscellaneous		Total	.	.	96,618	.	3·47
		Grand Total	.	.	2,786,421	.	100·00

	Coaching			Goods			Miscellaneous			Total			Percentage of profits on paid up Capital
	Total	Per mixed train mile	Per open mile per week	Total	Per mixed train mile	Per open mile per week	Total	Per mixed train mile	Per open mile per week	Total	Per mixed train mile	Per open mile per week	
	Rs	Rs. A. P.	Rs	Rs	Rs. A. P.	Rs	Rs	Rs. A. P.	Rs	Rs	Rs. A. P.	Rs	Rs
Earnings	1,070,547	2-0-5	49	1,619,256	3-1-1	75	96,618	-2-11	4	2,786,421	5-4-5	128	
Expenses	465,839	-14-1	21	985,175	1-13-10	46	56,803	-1-9	2	1,507,817	2-13-8	69	1·16
Profits	604,708	1-2-4	28	634,081	1-3-3	29	39,815	-1-2	2	1,278,604	2-6-9	59	
Percentage of expenses to Earnings	44	.	.	60	.	.	59	.	.	54	.	.	

TABLE A.—(Continued.)

GENERAL STATEMENT of Working of half-year ending 30th June 1871.

	Passenger.	Goods.	Mixed.	Total.
Number of trains run ...	884	13814	3 132	5400
Train mileage (D. I. 1, page 7)	114. 915	170 625	528 107	813 647
Gross ton mileage (M. I. 22, page 16)	43 566 326	94. 084. 106	Included in Pure Passenger & Pure Goods.	137 650 432

AVERAGE COMPOSITION OF TRAINS.		Average Number of Vehicles. Passenger trains.	Goods trains.	Mixed trains.	Average Number of Seats. Provided.	Used.	Average Weight of Trains. Freight or live load.	Dead load, exclusive of Engine and Tender.
							Tons.	Tons.
PASSENGER ...	1st Class ...	Information is not recorded		0·421	7·574	1·493		
	2nd " ...			1·557	62·286	6·065		
	3rd " ...			3·721	187·931	87·827	7·2838	50·390
	4th " ...			0·400	20·020	8·695		
	Others ...			1·532		0·590		
GOODS. (Vehicles of all kinds including brakes).		d.	d.	14·433	Carrying capacity in tons.		42·882	81·467

OPEN MILEAGE ON 30th June 1871. Single.	Double.	Total.	Mean mileage worked during half-year.	Capital expended on open mileage, inclusive of Rolling Stock.	Cost per mile open.	TOTAL LENGTH OF THE FOLLOWING GRADIENTS :— 1/100 and less.	1/101 to 1/200	1/201 to 1/800	STEEPEST GRADIENTS WORKED BY Fixed power. Length.	Inclination.	Locomotive. Length.	Inclination.
				£	£	M. Ch.	M. Ch.	M. Ch.	M. Ch.		M. Ch.	
832	-	832	819	9217737	11.258	63-59-01	103-78-92	11-65-55			0·65	1 in 60

TABLE B.

STATEMENT showing in comparison the Coaching Traffic of the half-years ending 30th June 1870 and 30th June 1871.

Reference to Revenue Account. Table and Main head.	Sub-head.	DETAILS.	Number. 1st Half 1870.	Number. 1st Half 1871.	Fare per Mile. 1st Half 1870.	Fare per Mile. 2nd Half 1871.	Receipts. 1st Half 1870.	Receipts. 1st Half 1871.	Average Mileage. 1st Half 1870.	Average Mileage. 1st Half 1871.
					Pies.	Pies.	Rs.	Rs.		
X. (H.) 1 ...		1ST CLASS PASSENGERS—					12,764	15772		
		Single Journey ...	2023	5833			581	602		
		Excess Fares ...	911	110	Day 18 pies — Night 22 —	Day 18 pies — Night 22 —	19.524	18.141		
		Return Journey ...	2282	23114						
		~~Season Tickets~~ ...					1282	1,079		
		Troops and Police ...	39	36						
		Total	5344	5313			64.151	65894	145·6	148·4
		~~Total~~ Season Tickets	1	1			150			
1 ...		2ND CLASS—					75256	79.964		
		Single Journey ...	50877	52335			354	527		
		Excess Fares ...	376	444			5720	4297		
		Return Journey ...	3652	3072						
		~~Season Tickets~~ ...					2674	2266		
		Troops and Police ...	838	319						
		Total	55.087	53736			84.004	87054	66·6	67·4
		~~Total~~ Season Tickets								
1 ...		3RD CLASS—					638084	671003		
		Single Journey ...	846328	843491			2223	2235		
		Excess Fares ...	7600	8516			32.018	22.017		
		Return Journey ...	81246	67.610			20522	21.864		
		~~Season Tickets~~ ...	9224	10595						
		Troops and Police ...								
		Total	936798	921.696			692847	720 119	48·4	50·3
		~~Total~~ Season Tickets								

TABLE B.—(Continued.)

STATEMENT showing in comparison the Coaching Traffic of the half-years ending 30th June 1870 and 30th June 1871.

Reference to Revenue Account. Table and Main head.	Sub-head.	DETAILS.	Number. 1st Half 1870.	Number. 1st Half 1871.	Fare per Mile. 1st Half 1870.	Fare per Mile. 1st Half 1871.	Receipts. 1st Half 1870.	Receipts. 1st Half 1871.	Average Mileage. 1st Half 1870.	Average Mileage. 1st Half 1871.
					Pies.	Pies.	Rs.	Rs.		
1	...	4th Class—								
		Single Journey ...	1,03,302	1,23,676			40,774	48,735		
		Excess Fares ...								
		Return Journey ...			2 pies	2 pies				
		~~Season Tickets~~								
		Troops and Police ...								
		Total	1,03,302	1,23,676			40,774	48,735	37.2	37.1
		Season Tickets ~~Total~~								
			Tons.	Tons.						
2	...	Passengers' Luggage	566	670			19,127	20,435	117.9	133.9
3	...	Military Baggage	35	181			5,531	5,413		
			No.	No.						
4	1	Public. Carriages	547	406			10,975	8,722		
	2	Public. Horses	1,732	1,348			22,454	20,482		
	3	Public. Dogs	1,463	1,648			2,016	2,401		
5	1	Military. Carriages ...	22	2			286	48	155.6	168.9
	2	Military. Horses ...	42	29			651	670	185.3	213.2
	3	Military. Dogs ...							118.6	165.7
			Tons.	Tons.						
6	...	Parcels ...	1,028	886			47,418	49,144	128.1	150.5
			No.	No.						
7	...	Special Trains ...	6,760	6,010			46,111	40,021		
		Post Office—								
8	1	Haulage and hire of Post Office vehicles.								
	2	Special Trains ...								
	3	Parcels...					1,623	1,709		
		Total...					166,091	149,045		

TABLE C.

STATEMENT showing in comparison the Goods Traffic of the half-years ending 30th June 1870 and 30th June 1871.

Reference to Revenue Account. Table and Main head.	Sub-head.	Details	Quantity. 1st half of 1870. Up.	Quantity. 1st half of 1870. Down.	Quantity. 1st half of 1871. Up.	Quantity. 1st half of 1871. Down.	Rate per Ton Mile. 1st half of 1870.	Rate per Ton Mile. 1st half of 1871.	Receipts. 1st half of 1870.	Receipts. 1st half of 1871.	Average Mileage. 1st half of 1870.	Average Mileage. 1st half of 1871.
			Tons.	Tons.	Tons.	Tons.	Pies.	Pies.	Rs.	Rs.		
X. (I.)	1	General Merchandize—						8	17164	11477	53.81	187.86
		Special Class...	5897	1396	6842	7676	12	12	626102	531881	107.84	147.87
		1st ...	58109	45723	44666	29683	14	14	281950	384320	113.84	151.58
		2nd ...	28214	21177	9628	15401	18	18	253536	279410	135.62	181.64
		3rd ...	13,441	10521	5739	11789	24	24	141682	128802	152.30	189.41
		4th ...	5254	3701	3697	1861	36	36	752875	133125	155.6	188.84
		5th ...	2414	2998	1721	1821			1472309	1489016		
		Total ...	113429	89516	72293	68231					not recorded	189.41
	2	Military ~~Government~~ Stores ...	156	19	243	129	24	24	4723	10737		144.59
	3	Railway Materials for Construction ...	not recorded		6400	2952			84467	105801		
		Minerals—										
		For the public...										
		Company.										
		(Construction only)							89189	116538		
		Total ...	156	19	6648	2081			1561498	1605853		
		GRAND TOTAL.	113585	89535	78936	71312						
			No.	No.	No.	No.	Rate per animal per mile.					
		Live Stock—			82	206	18	18	4764	2990	not recorded	213.20
		Horses ...	497		149	349	18	18	1,811	2530	158.59	190.38
		Cattle ...	253	284	801	919	2	2	1,319	676	105.56	80.42
		Sheep ...	2593	1,086								213.20
		Military ~~Government~~ Live Stock—				153	18	18	884	3,113	not recorded	190.38
		Horses ...	123		197	1	18	18		81		
		Cattle ...			5		2	2				
		Sheep ...							1570176	1614945		
		Grand Total										

TABLE—C.—(1).

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

Description.	Quantity. 1st half 1870.	Quantity. 1st half 1871.	Receipts. 1st half 1870.	Receipts. 1st half 1871.	Increase in Quantity.	Decrease in Quantity.	Increase in Receipts.	Decrease in Receipts.
	Tons.	Tons.	Rs.	Rs.	Tons.	Tons.	Rs.	Rs.
Baggage (Military)	35	181	888	3566	146	•	2698	•
Ballast & stone	2624	1693	5817	6583	•	931	766	•
Bamboos	2,101	2,147	11,739	11,740	46	•	691	•
Bear	344	372	7468	8159	28	•	8336	2639
Betel Nuts	1,735	2,219	20607	28,943	484	•	174	•
Brass & Copper	333	159	5912	2273	•	174	150	2731
Charcoal, Cokeand Coal	370	367	2049	3560	97	•	180	485
Chillies	1,394	1,214	10,472	7,741	•	180	•	1868
Chunam & Lime	523	596	1,435	1030	73	•	•	5867
Cloths and Piece Goods	1660	1707	46841	44983	47	•	194	•
Cocoanuts	633	439	9430	3563	•	194	•	21608
Coffee	3549	5196	69267	90875	1649	•	5	45
Commissariat Stores	6	1	84	99	•	5	•	6260
Cotton, loose	1806	1375	61337	62297	72	•	•	•
" Flat pressed	93	866	2606	32,903	774	•	30294	•
" Full pressed	998	3314	18660	72,173	2316	•	63513	12720
Dye or Dyewood	2852	369	14847	2,127	•	2487	•	•
Firewood	5,776	5224	24737	24484	48	•	747	113
Fruits & Vegetables	1000	1022	9695	9582	42	•	•	383
Furniture	47	37	4394	1111	•	10	•	•
Ghee	643	629	18164	12707	•	14	543	14851
Gram	14639	15136	117484	74637	•	4503	•	14567
Ground Nuts	1740	773	22,445	7378	•	967	•	4614
Gunnies	860	408	3526	1913	•	1462	•	81
Hay	1,307	1,509	14,599	18,080	202	•	3481	•
Hides	15	3	104	23	•	12	•	•
Iron of all Kinds	467	631	8624	12,099	164	•	3475	25983
Jaggery	10532	2,964	72,054	47,073	•	1,568	•	7418
Luggage	2,196	2,195	24,467	17,649	•	3	•	•
Oil of all Kinds	200	238	5730	6,258	38	•	528	1635
Ordnance Stores	3221	3383	33783	32,248	162	•	•	•
Paddy	134	189	3801	7072	55	•	3271	•
Pitch Tar and Asphalte	842	1071	3358	4,188	229	•	830	166
Potatoes	35	24	579	353	•	11	•	•
Powder & Ammunition	1385	1464	17395	18,004	99	•	709	2347
Quarry	76	35	4763	2,416	•	40	•	13915
Rice	2526	1645	24,981	13,069	•	881	•	•
Salt	13708	22769	93913	195,886	10061	•	101973	20,946
Fish	25331	22379	185,667	164,731	•	3052	•	5563
Saltpetre	1129	977	14,608	9,015	•	212	•	845
Seeds of all Kinds	278	176	4176	3331	•	102	•	22949
Skins	5843	4363	69537	46608	•	1480	•	•
Sugar of all Kinds	1,600	1,850	27308	30239	250	•	2931	•
Sunnhemp	1080	1446	10117	13980	366	•	3864	18225
Tamarind	16563	17073	240686	237360	510	•	•	5379
Timber	3468	3744	28558	23774	298	•	•	8666
Tobacco	4712	4115	35360	26694	•	1597	•	376
Turmeric	2238	2231	14692	14,076	•	7	•	•
Wines & spirituous Liquors	1200	1241	30999	31490	41	•	491	2282
	1454	1360	26932	24,650	•	94	•	•
Total	144,565	140896	1177.030	1149752	18297	18966	252306	229584

TABLE D.

Statement of mileage maintained.*

Reference to Revenue Account. Table and Main head.	Sub-head.	Details.	1st half of 1870. Departmentally.	By Contract.	Total.	1st half of 1871. Departmentally.	By Contract.	Total.	Total Increase.	Total Decrease.
IX. (A.)	...	1. Mean miles of line maintained. Single	648¼	•	648¼	677¼	•	677¼	32	•
		2. Mean miles of line maintained. Double	•	•	•	•	•	•	-	-
		3. Mean miles of line maintained. Total	648¼	•	648¼	677¼	•	677¼	32	•
		4. „ Sidings maintained, Total.	76	•	76	77¼	•	77¼	1¼	•
		5. „ Single Track Total including Sidings.	721¼	•	721¼	754½	•	754½	33¼	•

* From Revenue Funds.

TABLE D—I.

Statement of Train Mileage.

Details. Reference to Revenue Account.		Train Miles run for: Traffic Department. XIV. 1.	Locomotive Department. XIV. 2.	Maintenance Department. XIV. 3.	Hours of: Assisting Engines. XIV. 4.	Shunting, Piloting, &c. XIV. 5.	Miscellaneous Services. XIV. 6.
1st half, 1870	Passenger						
	Goods	749,668	22,731	26,727	20½	15,407	816
	Mixed						
	Total						
1st half, 1871	Passenger						
	Goods	843,647	52,540	87,130	19	18,881	2,099
	Mixed						
	Total						
Increase in 1871	Passenger						
	Goods	93,979	29,809	60,403	•	3,474	1,283
	Mixed						
	Total	93,979	29,809	60,403	•	3,474	1,283
Decrease in 1871	Passenger						
	Goods				1½		
	Mixed				1½		
	Total						

TABLE E.

Maintenance of Way Works and Stations.

RAILS.

Reference to Revenue Account: Table and Main head.	Sub-head.		1st Half of 1870. Total.	1st Half of 1871. Total.	Increase.	Decrease.
XIV.		Train Mileage (D. I. 1 & 3, page 7) ...	799,126	953,317	154,191	
		Ton Mileage (M. I. 22, page 16) ...		150,724,572		

Reference	Sub-head	DETAILS.	1st Half of 1870. Total.	1st Half of 1871. Total.	Increase.	Decrease.	Per mile of line maintained. D. 3.	Per mile of Track including Sidings. D. 5.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	As.	Rs.
IX. (A.) 1		Superintendence—								
	1 & 2	Engineers' salaries and allowances ...	30,099	31,064	965		41.3	41.47	0.52	0.21
	3 to 5	Inspectors' and Plate-layers' salaries and allowances, including overtime ...	16,061	12,849		3,212	17.0	17.03	0.22	0.08
	6	Office expenses	9,869	8,891		978	11.8	11.78	0.15	0.06
2		Maintenance and Renewal of Permanent Way—								
	1	Wages	136,804	130,357		6,447	172.8	172.77	2.19	0.86
	2	Materials	111,982	102,055		9,927	135.3	135.26	1.71	0.68
3		Repairs of Bridges, &c. Wages and Materials—								
	1	Bridges & Tunnels ...	11,144	130,095	118,951		172.4	172.42	2.18	0.86
	~~2~~	~~Tunnels~~ ...								
	2 ~~3~~	Miscellaneous ...	29,348	28,358		990	37.6	37.59	0.48	0.19
4		Repairs of Stations and Buildings: Wages and Materials—								
	1	Repairs of all except Staff Quarters ...	29,054	24,009		5,045	31.8	31.87	0.40	0.16
	2	Repairs of Staff Quarters	5,615	6,293	678		8.3	8.34	0.10	0.04
5...	...	Maintenance by Contract—								
6		Unclassified Expenditure—								
	1	Plantations								
	2	Tools and Plant ...	2,461	20,738	18,277		27.5	27.49	0.35	0.14
	3	Loss on Stores, &c. ...	12,532			12,532				
		Total ...	394,969	494,709	138,871	26,699	655.7	655.67	8.30	3.28

(Left margin: If done Departmentally.)

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TABLE E—I.

Maintenance of Way.

RAILS.

Number.	Details.	Double-headed. 84 lbs.	Double-headed. 75 lbs. ×	Bridge. lbs.	Flat-footed. lbs.	~~Others.~~ Steel	Total.
1	Miles of rail in way, including sidings	m. ch. ft. 1022-53-37	m. ch. ft. 653-65-8	m. ch. ft. 0-22-34	m. ch. ft. ----	m. ch. ft. 149-47-10	m. ch. ft. 1896-28-23
2	Average age of rails in way at the middle of the half-year ...						yrs. ms. ds. 7-9-9
3	Rails inverted — Number ...						2,077
	Rails inverted — Miles ...						m. ch. ft. 529-40-16½
4	Proportion inverted per mile of (1) rail						3.92
5	Rails renewed — Number ...						2797
	Rails renewed — Miles ...						m. ch. ft. 770-9-58½
6	Proportion renewed per mile of (1) rail						3.63
7	Average number of tons hauled over each kind of rail in the half-year...						
8	Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2)						

Including m. chs. ft. 4-12-58 of 65 lbs. rails

TABLE E—II.

Maintenance of Way.

SLEEPERS.

Number	Details.	Wood. Transverse. Teak 10'×10"×5" No.	Sal 10'×10"×5" No.	Jungle 10'×9"×5" No.	Iron-wood 10'×10"×5" No.	Total. No.	Longitudinal Sal Sleeper 10"×5" Linl. Yds.	Iron. ~~Pairs of Oval~~ Bowls ~~95 lbs.~~ No.	Iron. Sibley's Wrought-iron Sub-Way. Linl. Yds.
1	Number of sleepers in way, including sidings ...	17,372		271,655		288,927		247,009	
2	Average age of sleepers in way at the middle of the half-year ...	yrs. ms. ds. 6-6-26	yrs. ms. ds. ----	yrs. ms. ds. 5-3-20	yrs. ms. ds. ----	yrs. ms. ds. 8-10-16	yrs. ms. ds. ----	yrs. ms. ds. 5-8-13	yrs. ms. ds. ----
3	Number renewed ...	537		16,822		17,359		11,714	
4	Ditto, per cent. of (1)...	3.11		6.19		9.30		0.47	

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account. Table & Main head.	Sub-head.		1st Half of 1870. Total.	2nd Half of 1871. Total.	Increase.	Decrease.	
XIV.	...	Train Mileage (D. I. 1, p. 7) ...	799,126	953,317	154,191	"	
		Ton Mileage (M. I. 22, p. 16) ...	"	150,744,512	"	"	
		DETAILS.	1st Half of 1870. Total.	2nd Half of 1871. Total.	Increase.	Decrease.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
		General Superintendence—						
IX. (B.) 1	1 & 2	Salaries of Locomotive Superintendents and Assistants, including allowances ...	4,918	9,833	4,915	"	0·16	0·06
	3 to 5	Ditto of Foremen, including allowances and overtime ...	17,859	20,363	2,504	"	0·34	0·13
	6	Office Expenses	12,451	13,263	812	"	0·22	0·09
		Running Expenses—						
2	1 & 2	Wages of Drivers and Firemen, including overtime ...	88,808	91,180	2,372	"	1·53	0·60
	3	Fuelling, cleaning and looking after Engines	15,943	17,298	1,355	"	0·29	0·11
	4	Contingent Expenses ...	576	1,138	562	"	0·02	0·01
		Fuel—						
3	1	Coal	6,455	35,667	29,212	"	0·60	0·24
	2	Coke	66,235	87,404	21,169	"	1·47	0·58
	3	Patent Fuel	68,827	14,444	"	54,383	0·24	0·10
	4	Wood	85,178	105,128	19,950	"	1·76	0·70
4	1, 2 & 3	Water—	10,985	13,219	2,234	"	0·22	0·09
5	...	Oil, Tallow, &c.—	16,223	11,698	"	4,525	0·20	0·08
		Maintenance and Renewals—						
6	1 & 2	Wages, including overtime ...	63,823	77,296	13,473	"	1·30	0·51
	3	Materials	90,560	60,776	"	29,784	1·02	0·40
7	...	Services of other Lines—	"	294	294	"	0·01	0·00
8	...	Unclassified Expenditure—	"	"	"	"	"	"
		Total...	548,841	539,005	98,852	88,692	9·38	3·70

			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	258	1,544	1,286	"	3·63	22·94
	2	Coke do.	41,396	2,658	"	38,738	6·26	39·58
	3	Patent Fuel consumed ...	43,016	499	"	42,517	1·17	7·41
	4	Wood do. ...	19,013	23,466	4,453	"	55·14	348·69

TABLE F—1.

Locomotive Power.

Reference to Revenue Account. Table & Main head.	Sub-head.	DESCRIPTION.	Passenger.	Passenger.	Goods.	Tank.	Total.
		Locomotives ... Wheels coupled ...	"	"	104	10	114
		Locomotives ... Weight on driving axle ...	"	14	From 10-12.6 12-3.2	From 8-12.6 13.6	
		Locomotives ... Total weight in steam, exclusive of tender ...	"	From 24-15	From 26-14.6 34-8	From 25-7.6 27-3.3	
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department	"	2	104	20	126
		2.—Average number of Locomotives constantly under repairs ...	"	1	15	4	20
		3.—Average number of Locomotives at work (1—2)	"	"	57	4	61
		4.—Train miles hauled by each class of Locomotives at work (3) ...	"	"	1042362	76452	1118814
		5.—Average train miles hauled by each Locomotive at work (3)	"	"	18636	5461	16097
		Per half-year	"	"	101	104	205
		Per day	"	"	"	"	24
		6.—Average speed between stations of trains. Passenger ...	"	"	"	"	15½
		6.—Average speed between stations of trains. Goods ...	"	"	"	"	18
		6.—Average speed between stations of trains. Mixed ...	"	"	"	"	23
		7.—Average through speed of trains ... Passenger ...	"	"	"	"	14¾
		7.—Average through speed of trains ... Goods ...	"	"	"	"	16¼
		7.—Average through speed of trains ... Mixed ...	"	"	"	"	
		8.—Weight of coal, &c., used per train mile ... (To be separated if possible among the classes of Locomotives.)	"	"	lbs. 25.72	lbs. 9.07	
		9.—Weight of wood used per train mile ... (To be separated if possible among the classes of Locomotives.)	"	"	80.47	*5.19	
		10.—Average gross weight of the trains hauled by each class of Locomotive	"	"	"	"	Tons 969413-40

*The Tank Engines burned Patent Coal exclusively during this half-year. The Wood shewn as used by them was for lighting purposes only.

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account.			1st Half of 1870.	1st Half of 1871.				
Table & Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.		
XIV.	...	Train Mileage (D. I. 1, p. 7) ...	799,126	953,317	154,191	"		
		Ton Mileage (M. I. 22, p. 16) ...	"	150,744,512	"	"		
		DETAILS.	1st Half of 1870.	1st 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 ...	4,918	9,833	4,915	"	0·16	0·06
	3 to 5	Ditto of Foremen, including allowances and overtime ...	17,859	20,363	2,504	"	0·34	0·13
	6	Office Expenses	12,457	13,269	812	"	0·22	0·09
		Running Expenses—						
2	1 & 2	Wages of Drivers and Firemen, including overtime ...	88,808	91,180	2,372	"	1·53	0·60
	3	Fuelling, cleaning and looking after Engines	15,943	17,298	1,355	"	0·29	0·11
	4	Contingent Expenses ...	576	1,138	562	"	0·02	0·01
		Fuel—						
3	1	Coal	6,455	35,667	29,212	"	0·60	0·24
	2	Coke	66,235	87,404	21,169	"	1·47	0·58
	3	Patent Fuel	68,827	14,444	"	54,383	0·24	0·10
	4	Wood	85,178	105,128	19,950	"	1·76	0·70
4	1, 2 & 3	Water—	10,985	13,219	2,234	"	0·22	0·09
5	...	Oil, Tallow, &c.—	16,223	11,698	"	4,525	0·20	0·08
		Maintenance and Renewals—						
6	1 & 2	Wages, including overtime ...	63,823	77,296	13,473	"	1·30	0·51
	3	Materials	90,560	60,776	"	29,784	1·02	0·40
7	...	Services of other Lines—	"	294	294	"	0·01	0·00
8	...	Unclassified Expenditure—	"	"	"	"	"	"
		Total...	548,841	559,005	98,852	88,692	9·38	3·70

			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	258	1,544	1,286	"	3·63	22·94
	2	Coke do.	44,396	2,658	"	38,738	6·25	39·56
	3	Patent Fuel consumed ...	43,016	499	"	42,517	1·17	7·41
	4	Wood do. ...	19,013	28,466	4,458	"	55·14	348·69

TABLE F—1.

Locomotive Power.

Reference to Revenue Account.		DESCRIPTION.	Passenger.	Passenger.	Goods.	Tank.	Total.
Table & Main head.	Sub-head.						
					104	10	114
		Locomotives ... Wheels coupled ...	"	"	S. Gauge	S. Gauge	
		Locomotives ... Weight on driving axle ...	"	14	From 10-12-2	From 8-11-2	
		Locomotives ... Total weight in steam, exclusive of tender ...	"	S. Gauge 24-15	S. Gauge From 26-14-2 34-8	S. Gauge From 25-7-2 27-9-3	
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department	"	2	104	20	126
		2.—Average number of Locomotives constantly under repairs ...	"	1	15	4	20
		3.—Average number of Locomotives at work (1—2)	"	"	57	4	61
		4.—Train miles hauled by each class of Locomotives at work (3) ...	"	"	1,042,362	76,452	11,18,814
		5.—Average train miles hauled by each Locomotive at work (3)	"	"	18,636	5,461	16,097
		Per half-year	"	"	101	104	205
		Per day	"	"	"	"	24
		6.—Average speed between stations of trains. Passenger ...	"	"	"	"	15½
		6.—Average speed between stations of trains. Goods ...	"	"	"	"	18
		6.—Average speed between stations of trains. Mixed ...	"	"	"	"	23
		7.—Average through speed of trains ... Passenger ...	"	"	"	"	14¾
		7.—Average through speed of trains ... Goods ...	"	"	"	"	16¼
		7.—Average through speed of trains ... Mixed ...	"	"	"	"	
		8.—Weight of coal, &c., used per train mile ... (To be separated if possible among the classes of Locomotives.)	"	"	lbs. 25·72	lbs. 9·07	
		9.—Weight of wood used per train mile ... (To be separated if possible among the classes of Locomotives.)	"	"	80·47	*5·19	
		10.—Average gross weight of the trains hauled by each class of Locomotive	"	"	"	"	Tons 969,413-40

* The Tank Engines burned Coal exclusively during this half-year the Wood shewn as used by them was for lighting purposes only.

TABLE G.

Carriage and Wagon Expenses.

Reference to Revenue Account.		Details.	1st Half of 1870.	1st 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.
XIV.		Train Mileage (D. I. 1, p. 7)	749668	813647	63979			
		Vehicle Mileage. Coaching (M. I. 8, p. 16) ...		3790464				
		Vehicle Mileage. Goods (M. I. 14, p. 16) ...		7093473				
		Vehicle Mileage. Total		10883937				
			1st Half of 1870.	1st Half of 1871.				
			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 ...	328	1480	1152		0.03	0.14
	3 to 5	Salaries of Foremen and allowances, including overtime	1883	3020	1137		0.06	0.28
	6	Office Expenses	1246	1985	739		0.04	0.18
		Repairs and Renewals of Vehicles and Machinery—						
2	1 to 3	Coaching Vehicles. Wages including overtime ...	5610	5069		541	0.10	(a) 1.34
		Coaching Vehicles. Materials ...	9869	9070		799	0.17	(a) 2.39
	1 to 3	Goods Vehicles. Wages, including overtime ...	6769	11497	4728		0.23	(b) 1.62
		Goods Vehicles. Materials ...	16796	26397	9601		0.51	(b) 3.72
		Cleaning and Oiling—						
3	1	Labor, including wages of oilers, &c.	5009	6970	1961		0.14	0.64
	2	Stores	18084	21956	3872		0.43	2.02
4	...	Unclassified Expenditure—						
		Total ...	65394	87444	23190	1340	1.71	8.03

TABLE H.

Traffic Expenses.

19

Reference to Revenue Account.		Details.	1st Half of 1870.	1st Half of 1871.		
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.
XIV.	...	Train Mileage (D. I. 1, p. 7)...	749668	813647	63979	
		Vehicle Mileage. Coaching (M. I. 8, p. 16) ...		3790464		
		Vehicle Mileage. Goods (M. I. 14, p. 16) ...		7093473		
		Vehicle Mileage. Total		10883937		
			1st Half of 1870.	1st Half of 1871.				
			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 ...	25058	27085	2067		0.53	2.49
	2 & 4 a	Office Establishment and Contingencies ...	14615	15338	723		0.30	1.41
	b	Station Staff	94976	107844	12868		2.13	9.91
	c	Train Staff	21183	26312	5129		0.52	2.42
	2 1 to 3	Fuel, Lighting, Water and General Stores... ...	24401	30200	5799		0.59	2.77
	3 ...	Clothing	539	5911	5372		0.12	0.54
	4 ...	Printing, Stationery and Tickets	12745	14995	2250		0.29	1.38
	5 ...	Cattle used for Traffic purposes, and Delivery and Collection of Goods ...						
	6 ...	Miscellaneous Expenses	112	214	102		0.00	0.02
		Payments to Services of other Lines—						
	1	Hire of Vehicles ...	66003			66003		
7	2	Mileage of Foreign Stock...		218	218		0.01	0.02
	3	Expenses at Joint stations						
	4	Use of Stations &c. ...						
8	...	Unclassified Expenditure ...	257592	228117	34528	66003	4.49	20.96

Total

TABLE J.

General Charges.

Reference to Revenue Account. Table and Main head.	Sub-head.	DETAILS.	1st HALF OF 1870. Total.	1st HALF OF 1871. Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	As.
IX. (E.) 1	....	Home Expenditure ...	13,020	6,130	•	6,890	0·12
		Indian Management—					
2	1	Agent's Office, including travelling and other allowances ...	9,909	4,176	•	5,733	0·08
	2	Auditor's Office, ditto.	16,796	13,609	•	3,187	0·27
	3	Account's Office, ditto.	4,915	1,431	•	3,484	0·03
	4	Pay Master's Office, ditto.	10,046	6,099	•	3,947	0·12
	5	Store Department, ditto. ...	11,363	2,419	•	8,944	0·05
	6	Medical Department, ditto. ...	8,507	8,042	•	465	0·16
	7	Rents	1,020	495	•	525	0·00
	8-10	Contingencies, Stationery, and Medicine	6,427	1,970	•	4,457	0·04
	3	Police (*Total Charges*) ...	5,003	8,162	3,159	•	0·16
	4	Advertising	1,089	1,462	373	•	0·03
		Electric Telegraph—					
5	1 to 4	Salaries, &c.	12,439	15,235	2,796	•	0·30
	5	Maintenance (labour and stores)	8,802	12,276	3,474	•	0·24
6	...	Clearing Accounts with other Lines	•	•	•	•	•
7	...	Unclassified Expenditure Less on Stores	977	6	•	971	0·00
		Total ...	1,10,313	87,512	9,802	38,603	1·60

TABLE K.

Steam Boat Service.

Reference to Revenue Account. Table and Main head.	Sub-head.	DETAILS.	2nd HALF OF 1870. Total.	1st 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.

Reference to Revenue Account. Table and Main head.	Sub-head.	DETAILS.	2nd HALF OF 1870. Total.	1st HALF OF 1871. Total.	Increase.	Decrease.
IX. (G.) 1.	...	Law Charges—	282	4920	4,638	
2		Compensation—				
	1	~~For Goods lost or damaged~~ ~~Claims for Goods, &c.~~ ...	14,407	11,460	•	2,947
	2	Personal injury	•	25	25	•
	3	For other Claims	56,042	28,644	•	27,398
3	...	Rates and Taxes—				
4		Contributions to Special Funds—				
	1	Fire Insurance Fund	20,727	11,985	•	8,742
	2	P. W. Renewal Fund	•	•	•	•
	3	Casualty Fund	•	•	•	•
		Total ...	91,458	57,034	4,663	39,087

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.	Tons.
Coaching—		
1st Class Passenger with free luggage ...	1·75	0·0875
2nd " "	1·75	0·0875
3rd " "	1·25	0·0625
4th " "	1·25	0·0625
A carriage (average for 2 and 4 wheeled)	6·75	0·3375
Coaching—contd.		
A Horse ...	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, &c. ...	0·50	0·0250

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 ...	222,228	785,618	3.29	0.3105	6.7000	7.0105	0.0448	1,557,895		
2	2nd " ...	832,341	3,263,135	3.896	0.3409	6.7735	7.1144	0.0479	5,849,757		
3	3rd " ...	1,965,353	44,381,946	22.60	1.4750	6.3391	7.8141	0.1888	15,357,471		
4	4th " ...	211,452	4,591,700	21.715	1.3572	6.0000	7.3572	0.1845	1,555,695		
5	Carriage Trucks	71,897	68,905	0.958	0.3285	5.0625	5.3860	0.0601	387,237		
	Dog Boxes	7,051	273,059	38.72	0.3873	6.9305	7.3178	0.0529	57,578		
6	Horse Boxes.	266,251	433,437	1.628	0.7122	7.0875	7.7997	0.0915	2,071,901		
7	Luggage Vans ...	223,996	89,864		0.4012	7.2500	7.6512	0.0588	1,527,460		
8	Total Coaching Vehicle Mileage ...	3,790,464									
9	Passenger Engines & Tenders ...	323,346					40.5402			13,108,477	
10	Passenger Brake-vans.	250,228			0.1250	8.2627	8.3877			2,098,841	
11	Total Coaching Ton Mileage ...								28,359,008	15,207,318	43,566,326

ANALYSIS OF CARRYING COST.—(*Continued.*)

	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.)
	GOODS—										
12	Goods Vehicles ...	7,093,473	22,646,506		3.1926	5.4411	8.6337	0.3698	61,242,928		
13	* Minerals (public).										
14	Total Goods Vehicle Mileage ...	7,093,473									
15	Goods Engines and Tenders...	698,285				40.5402				28,308,616	
16	Goods Brakes.	540,383			0.1250	8.2627	8.3877			4,532,562	
17	Total Goods Ton Mileage ...								61,242,928	32,841,178	94,084,106
	Miscellaneous For Post Office	238,410			day 0.5000	6.8755	7.3755		1,758,394		
18. 19. 20.	For stores carried free on Revenue Account. For Traffic Department — Locomotive Department — Engineering Department	700,468	2,646,804		3.7786	5.8793	9.6579	0.3912	6,765,050		
	— Miscellaneous Engines & Tenders	97,183				40.5402				3,939,819	
	— Miscellaneous Brake Vans	75,208			0.1250	8.2027	8.3877			630,817	
21	Total Miscellaneous Ton Mileage ...								8,523,444	4,570,636	13,094,080
22	TOTAL GROSS TON MILEAGE ...								98,125,380	52,619,132	150,744,512

M.—II.

Division between Coaching and Goods of the Expenditure of Departments.

DETAILS.	Maintenance. (a)	Locomotive. (b)	Carriage and Wagon. (c)	Traffic. (d)	General. (e)	Special and Miscellaneous	
Expenses due to Coaching	144.513	1,66,589	25.187	79.327	25.661	17.978	4,59.255
" Goods	3 12.184	3.59.760	58.424	1,47.407	55.416	38.825	9.72.016
TOTAL...	456.697	526.349	83.611	2,26.734	81.077	56.803	14.31.271

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.	Dog Total Coaching Stock. Boxes	Total Goods Vehicles. Coaching	Goods Mineral Trucks. Vehicles	Mineral Total Goods Stock, &c. Trucks
Maintenance (a)...	7939	29809	78259	7.928	4973	12558	7.784	263	144.513	312.184	
Locomotive (b) ...	9.157	34.363	90.214	9.139	2275	12.171	8.973	303	166589	359.760	
Carriage and Wagon (c) ...	1,477	5464	13059	1,405	478	1.769	1.488	47	25187	58424	
Traffic (d) ...	4,651	17208	44131	4425	1,505	5572	4688	147	79.327	147.407	
General (e) ...	1,504	5567	13305	1,431	487	1803	1516	48	25.661	55.416	
Special and Miscellaneous	1,054	3,900	9322	1003	341	1.263	1.062	33	17.978	38.825	
TOTAL...	25776	96.311	245.290	26.331	7.059	33136	25811	841	459.255	972.016	

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.	Dog Goods Vehicles. Boxes	Goods Mineral Trucks. Vehicles
	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.
Maintenance*	6.859	6.961	7.645	7.198	5.270	7.614	6.672	7.160	8.451
Locomotive*	7.907	8.024	8.813	8.298	6.075	8.777	7.691	8.253	9.716
Carriage and Wagon* ...	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.582
Traffic*	4.018	4.018	4.018	4.018	4.018	4.018	4.018	4.018	4.018
General*	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300
Special and Miscellaneous	0.911	0.911	0.911	0.911	0.911	0.911	0.911	0.911	0.911
TOTAL...	22.271	22.490	23.963	23.001	18.850	23.896	21.868	22.918	25.978
Cost per Unit†	6.2756	5.7730	1.0154	1.0592	19.6695	14.6783	54.5058	0.5913	8.2409

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. (a)	Actual Cost per unit per mile. (b)	Profit or Loss per unit per mile.	Proportion per cent. of Profits to Receipts.
	Pies.	Pies.	Pies.	Pies.
COACHING—				
1st Class	15.9699	6.2756	9.6943	60.704
2nd "	5.2181	5.7730	1.9656	65.939
3rd "	2.9810	1.0154	0.9786	48.022
4th "	2.0378	1.0592	4.7676	19.570
Carriages	24.4371	19.6695		
Horses	9.3697	14.6783	0.7202	1.304
Luggage	55.2260	54.5058	1.0970	64.978
Dogs	1.6883	.5913		
GOODS—			5.4874	39.972
Goods	13.7283	8.2409		
Minerals				

Major R. E.

Sketch Revenue Account for the Specimen Analysis of Cost.

Passenger Train Mileage	...	...
Goods "	...	...
Total	...	

EXPENDITURE.	Rs.	Rs.	RECEIPTS.	Rs.	Rs.
Maintenance of Way ...			Coaching—		
Locomotive Expenses—			1st Class Passengers ...		
Superintendence ...			2nd " " ...		
Working Passenger Train...			3rd " " ...		
Do. Goods ...			4th " " ...		
			Carriages ...		
Carriage and Wagon Department—			Horses ...		
Carriage Repairs ...			Luggage, Parcels, &c. ...		
Wagon					
Greasing, &c. ...			Merchandize—		
			Goods		
Traffic Department			Minerals		
General Charges					
Total...					
Balance...					
GRAND TOTAL...			GRAND TOTAL...		

C. O. 5963/71.
Recd 3 Aug/71 2 1359

MADRAS RAILWAY.

REVENUE ACCOUNT FOR THE HALF-YEAR ENDING 30TH JUNE 1871.

02

Dr. *Cr.*

EXPENDITURE.		Rs.	A.	P.	Per cent. of Revenue.	EARNINGS.		Rs.	A.	P.
To Maintenance of Way Works and Stations...	...(Abstract A)...	4,94,708	7	0	17·76	By Coaching Traffic...	(Abstract H)...	10,70,546	14	0
" Locomotive Expenses	...(Abstract B)...	5,59,000	15	2	20·06	" Goods Traffic ...	(Abstract I)...	16,19,255	11	9
" Carriage and Wagon Expenses	...(Abstract C)...	87,443	10	5	3·14	" Electric Telegraph Earnings ...	... ...	10,309	14	4
" Traffic Expenses	...(Abstract D)...	2,28,117	1	1	8·19	" Sundries ...	(Abstract K)...	86,308	7	7
" General Charges	...(Abstract E)...	81,512	6	0	2·92					
" Special and Miscellaneous Expenditure ...	...(Abstract G)...	57,034	5	11	2·04					
		15,07,816	13	7	54·11					
" Balance Net Earnings		12,78,604	2	1	45·89					
	Total...	27,86,420	15	8	100·00		Total...	27,86,420	15	8

ABSTRACTS.

A.—MAINTENANCE OF WAY WORKS AND STATIONS.

	Rs.	A.	P.	Rs.	A.	P.
1st.—Salaries, Office Expenses, and General Superintendence—						
(1).—Engineers' Salaries	* 27,394	7	6			
(2).—Allowances including travelling expenses of all kinds	3,668	14	7			
(3).—Subordinate Superintendents	12,740	1	11			
(4).—Allowances of ditto ditto	109	4	7			
(5).—Overtime Allowances	...	...	...			
(6).—Office Expenses	8,891	6	5	52,804	3	0
2nd.—Maintenance and Renewal of Permanent Way—						
(1).—Wages	1,30,357	1	2			
(2).—Materials	1,02,054	11	6	2,32,411	12	8
3rd.—Repairs of Bridges, &c.—Wages and Materials—						
(1).—Bridges and Tunnels	1,30,094	7	2			
(2).—Miscellaneous, including earth-work, roads, fencing, &c. ...	28,358	2	0	1,58,452	9	2
4th.—Repairs of Stations and Buildings—Wages and Materials—						
(1).—Repair of buildings of every description, including station-yards and signals, but excepting quarters of the Staff	24,009	1	1			
(2).—Repairs of Staff quarters	6,292	14	11	30,302	0	0
5th.—Maintenance by Contract—	...	..	...	...		
6th.—Unclassified Expenditure—						
(1).—Plantations	20,737	14	2			
(2).—Tools and Plant	...	...	...			
(3).—Loss on Stores, &c.				20,737	14	2
Total ...	...	...	...	4,94,708	7	0

* Includes Home Payments.........Rs. 1,647-13-1.

Miles maintained—

		Departmentally.	By Contract.	Total.
Railway Line	Double ...	...	...	...
	Single... ...	677½	...	677½
Sidings		77½	...	77½
			Total...	754½

B.—LOCOMOTIVE EXPENSES.

	Rs.	A.	P.	Rs.	A.	P.
1st.—General Superintendence—						
(1).—Salaries of Locomotive Superintendent and Assistants	9,422	2	8			
(2).—Allowances of ditto, including travelling allowances	411	8	11			
(3).—Subordinate Superintendents	18,762	9	0			
(4).—Allowances including travelling allowances	562	10	3			
(5).—Overtime allowances...	1,037	3	9			
(6).—Office Expenses	13,262	14	0	43,459	0	7
2nd.—Running Expenses (Wages connected with the working of Locomotive Engines).						
(1).—Wages of Drivers and Firemen	74,787	5	6			
(2).—Overtime allowances	16,392	7	11			
(3).—All labor connected with fuelling, cleaning, and looking after Engines in yards	17,298	3	3			
(4).—Contingent Expenses, including Clothing and Travelling Expenses.	1,138	4	0	1,09,616	4	8
3rd.—Fuel.						
(1).—Coal ... ... Cwts... 30,890 ...	35,666	11	4			
(2).—Coke ... ... " 53,159 ...	[illegible]	8	1			
(3).—Patent Fuel ... ... " 9,986 ...	14,444	11	2			
(4).—Wood ... ... lbs. 52,564,060 ...	1,05,128	1	11	2,42,643	0	6
4th.—Water (*including Wages and Stores.*)	...	..	...	13,219	2	5
5th.—Oil, Tallow, and other Stores, (*expended on Engines in Work*)—	...	...	...	11,697	14	5
6th.—Maintenance and Renewals of Locomotive Engines and Machinery—						
(1).—Wages	74,757	7	8			
(2).—Overtime allowances	2,830	7	8			
(3).—Materials	60,776	8	0			
7th.—Payments to other Lines—						
(1).—Hire of Locomotives ...						
8th.—Unclassified ...						

C.—CARRIAGE AND WAGON EXPENSES.

	Rs.	A.	P.	Rs.	A.	P.
1st.—General Superintendence—						
(1).—Salaries of Superintendents and Assistants	1,418	12	4			
(2).—Allowances, including Travelling	60	13	5			
(3).—Subordinate Superintendents	2,779	2	0			
(4).—Allowances of ditto, including Travelling	83	15	11			
(5).—Overtime allowances	157	5	6			
(6).—Office expenses	1,984	13	0	6,484	14	2
2nd.—Repairs and Renewals of Vehicles and Machinery—						
Coaching Vehicles—(1).—Wages 4,989 0 4						
(2).—Overtime 80 3 11						
(3).—Materials 9,070 0 9	14,139	5	0			
Goods Vehicles—(1).—Wages 11,346 8 5						
(2).—Overtime 149 14 1						
(3).—Materials 26,397 4 3	37,893	10	9	52,032	15	9
3rd.—Cleaning Carriages and Wagons, and Oiling—						
(1).—Labor, including wages of Oilers, Carriage Cleaners, and Examiners.	6,969	8	2			
(2).—Stores, including Oil, Grease and other Stores for Consumption on running Vehicles	21,956	4	4	28,925	12	6
4th.—Unclassified Expenditure—						
Loss on Stores, &c.	...	...	...	...	...	...
Total......	...	...	...	87,443	10	5

D.—TRAFFIC EXPENSES.

	Rs.	A.	P.	Rs.	A.	P.
1st.—Salaries, Wages, &c.						
(*a*).—General Superintendence—						
(1).—Traffic Manager, Asst. ditto., District Superintendents and Traffic Canvassers 23,542 15 10						
(2).—Office Establishment... ... ... 11,392 11 2						
(3).—Travelling Allowances 3,541 14 9						
(4).—Contingencies 3,945 14 9	42,423	8	6			
(*b*).—Station Staff—						
(1).—Station Masters, Clerks, Porters, Pointsmen, Gate-keepers of Level Crossings, Signalmen, Station Servants, &c....	1,07,843	9	0			
(*c*).—Train Staff—						
(1).—Guards and Assistant Guards... ... ... 26,145 1 6						
(2).—Overtime Allowances 166 9 0	26,311	10	6	1,76,578	12	0
2nd.—Fuel, Lighting, Water and General Stores.						
(1).—Fires, Lights, Water and General Stores for Carriages, Stations, Offices, &c.	17,784	7	11			
(2).—Wagon covers, Ropes, &c....	12,070	5	4			
(3).—Office and Station fittings and furniture	345	6	0	30,200	3	3
3rd.—Clothing	...	...	...	5,910	13	9
4th.—Printing, Stationery and Tickets.	...	...	...	14,995	1	11
5th—Charges for Delivery and Collection of Goods, &c.	...	...	...	...	...	...
6th—Miscellaneous Expenses.	...	...	...	[illegible]		
7th.—Payments to other Lines—						
(1).—Hire of Vehicles ...						
(2).—Mileage of foreign stock ... stations						

E.—GENERAL CHARGES.

	Rs.	A.	P.	Rs.	A.	P.
1st.—Home Expenditure.						
(1).—Directors and Secretary or Managing Director	4,802	5	7			
(2).—Auditors and Accountants						
(3).—Consulting Engineer and Inspecting Officers' Fees and Travelling Allowances...	1,327	8	11			
(4).—Office Expenses	...	...	...	6,129	14	6
2nd.—Salaries of Indian Management, including Offices.						
(1).—Agent's Office ... ... (Salaries Rs. 4,112 2 1; Travelling Allowances Rs. 64 6 0)	4,176	8	1			
(2).—Auditor's Office ... ... (Salaries Rs. 13,556 5 6; Travelling Allowances Rs. 52 6 0)	13,608	11	6			
(3).—Accountant's Office ... (Salaries Rs. 1,415 0 9; Travelling Allowances Rs. 16 0 2)	1,431	0	11			
(4).—Paymaster's (Cashier's) Office. (Salaries Rs. 5,784 8 1; Travelling Allowances Rs. 314 12 3)	6,099	4	4			
(5).—Store Department... (Salaries Rs. 2,398 3 4; Travelling Allowances Rs. 20 15 7)	2,419	2	11			
(6).—Medical Department ... (Salaries Rs. 7,975 15 3; Travelling Allowances Rs. 66 0 0)	8,041	15	3			
(7).—Rents of buildings and lands	494	10	1			
(8).—Contingencies, including Furniture and Fittings..	964	13	7			
(9).—Stationery	463	2	0			
(10).—Medicine	541	14	8	38,241	3	4
3rd.—Police.						
(1).—Supervision...	1,200	0	0			
(2).—Constables	6,783	9	10			
(3).—Contingencies.	178	6	0	8,161	15	10
4th.—Advertising. (*All advertisements of all Departments*).	...	...	..	1,461	13	2
5th.—Electric Telegraph.						
(1).—Salaries of Superintendents and Assistants	2,982	4	1			
(2).—Signallers	10,923	2	10			
(3).—Travelling Expenses	662	2	7			
(4).—Office Expenses, Contingencies, &c.	663	0	7			
(5).—Maintenance, Wages, Stores	12,275	13	1	27,511	7	2
6th.—Clearing Accounts with other Lines.						
7th.—Unclassified Expenditure.						
Loss on Stores, &c.	...	...	...	6	0	0
Total...	...	...	...	81,512	6	0

G.—SPECIAL AND MISCELLANEOUS EXPENDITURE.

	Rs.	A.	P.	Rs.	A.	P.
1st.—Law Charges	...	..	..	4,920	3	1
2nd.—Compensation.						
(1).—For goods, lost or damaged. {From Fire Insurance Fund Rs. ... ...8,741 6 10; From Revenue Fund, Rs...2,718 4 2}	11,459	11	0			
(2).—For personal injury	...	..	..			
(3).—For other claims	25	0	0	11,484	11	0
3rd.—Rates and Taxes. (*Including Municipal Water-rates*).	...	..	..	*28,643	10	4
4th.—Contributions to Special Funds.						
(1).—Fire Insurance Fund...	...	...	...	20,727	4	4
Total...	...	...	...	65,775	12	9
Deduct sum chargeable to Fire Insurance Fund...	...	...	...	8,741	6	10
Total...	...	...	...	57,034	5	11

* Assessment on Buildings, &c., for the years 1870-71. ... ...Rs. 3,948 11 7
Income Tax on net Traffic Earnings for the year ending 31st March 1871, 4th instalment.. ... ... ,, 24,694 14 9
Rs. 28,643 10 4

H.—COACHING TRAFFIC.

Mileage Fares.	First Class. (Day ... 0 1 0; Night ... 0 1 10) No.	Amount.	Second Class. (0 0 5; 0 1 0) No.	Amount.	Third Class. (0 0 3) No.	Amount.	Fourth (Cooly) Class. (0 0 2) No.	Amount.	Total. No.	Amount.
		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.
1st.—Passengers—										
Single journeys..	3,033	45,771 14 0	52,335	79,964 4 0	8,43,491	6,71,002 13 2	1,23,676	48,734 14 0	10,22,535	8,45,473 13 2
Excess fares ...	110	601 15 0	444	526 12 0	8,516	2,234 10 10	...	... ...	9,070	3,363 5 10
Return journeys.	2,244	18,140 8 0	3,072	4,296 14 0	67,610	22,017 7 8	...	... ...	72,926	44,454 13 8
Troops and Police	36	1,079 5 0	349	2,266 8 0	10,595	24,863 13 0	...	... ...	10,980	28,209 10 0
Total...	5,423	65,593 10 0	56,200	87,054 6 0	9,30,212	7,20,118 12 8	1,23,676	48,734 14 0	11,15,511	9,21,501 10 8
Season Ticket...	1	... ...	...	... ...	...	... ...	...	... ...	1	... ...

	Ton miles.	Rs. A. P.
2nd.—Passengers' Luggage	70,614	20,434 11 0
3rd.—Military Baggage	19,250	5,412 13 0
	No.	
4th.—Carriages, Horses, Dogs, &c.		
(1).—Carriages	406	8,721 12 0
(2).—Horses	1,348	20,482 7 0
(3).—Dogs	1,648	2,400 12 0
		31,604 15 0
5th.—Military Carriages, Horses, &c.		18 6 0

I.—GOODS TRAFFIC.

	Rate per Ton per mile.	Ton Miles.	Amount. Rs.	A.	P.
1st.—Merchandise, General—					
1st Class	12 pies.	1,09,90,079	5,51,881	1	7
2nd Class	14 ,,	37,94,081	2.84,319	12	9
3rd Class	18 ,,	31,82,194	2,79,409	14	5
4th Class	24 ,,	10,52,741	1,28,801	15	2
5th Class	36 ,,	6,68,889	1,33,124	15	2
Special	8 ,,	27,27,330	1,11,477	11	2
		2,24,15,314	14,89,015	6	3
2nd.—Military Stores—		70,461	10,736	15	0
3rd.—Railway Materials for Construction—		13,52,185	1,05,800	15	2
4th.—Minerals—					
(1).—For the Public		...	...	..	...
(2).—For the Company (construction only)		...	...	...	...
		...	...	...	...
5th.—Live Stock—					
(1).—Horses		20,802	2.989	9	0
(2).—Cattle		24,467	2,529	12	0
(3).—Sheep		3,182	676	6	0
		48,451	6,195	11	0
6th.—Military Live Stock—					
(1).—Horses		21,663	3,113	4	0
(2).—Cattle		784	81	1	0
(3).—Sheep		...	...	...	...
		22,447	3,194	5	0
7th.—Rents and Demurrage, Wharfage, Storage, &c.		...	3,902	2	4
8th.—Interest on Outstanding Bills.		...	410	5	0
Total...			16,19,255	11	9

K.—SUNDRIES.

	Amount. Rs.	A.	P.
Interest on Revenue balances deposited with Government	9,763	5	5
Hire of Locomotives	32,152	15	11
Hire of Vehicles	3,164	7	8
Mileage of Vehicles and Sheets over foreign lines	668	4	1
Use of Stations jointly occupied	6,314	2	8
Clearing accounts with other lines	...	...	...
Tolls on bridges	...	...	...
Rents of dwelling houses	13,163	12	7
Do. Refreshment Rooms	5,880	4	9
Fees on Share Transfers, &c.	...	...	...
Sale of unclaimed and damaged Goods	231	0	1
Sale of Revenue Stores			
1.—Maintenance ... ... (12,653 7 2)			
(2).—Locomotive ... ... (498 9 6)			
(3).—Carriage and Wagon ... ... (...)			
(4).—Traffic ... ... (1,383 4 10)			
(5).—General ... ... (434 12 11)	14,970	2	5
Total ..	86,308	7	7
Electric Telegraph Earnings	10,309	14	4

NET PROFIT STATEMENT.

	Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.
To Balance outstanding from last Account	10,503	1	11	By Traffic earnings paid to Govt. during the half-year ending 30th June 1871 ...	29,33,023	14	4			
To Gross earnings as per Revenue Account	37,86,120	15	8	Deduct earnings paid in during January and February 1871 taken to account in half-year ending December 1870 ...	3,00,553	9	1			
								26,32,470	5	3
				Add earnings paid in during July and August 1871 .	1,46,104	6	3			
				Do. Interest due by Govt. for this half-year ...	9,763	5	5			
								1,55,867	11	8
								27,88,338	0	11
				Balance, *i. e.*, Traffic earnings up to 30th June 1871, unrealized on the 1st September 1871.						
				Traffic Department ...	6,144	11	3			
				G. I. P. Railway ...	2,501	5	5			
								8,646	0	8
				Total Rs .				27,96,984	1	7
Total Rs...	27,96,984	1	7	... ...Rs...				27,88,338	0	11
				Statement... ... ... ,,				15,07,816	13	7

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CONSULTING ENGINEER'S OFFICE.

Railway Department.

No. 542.

From Major H. L. Prendergast RE,
Ag. Consulting Engineer for Railways,

To Colonel J. Carpendale RE,
Secretary to Government,
Public Works Department,
Fort Saint George.

Sir,

I have the honour to forward for submission to the Government of India the Revenue Analysis of the Madras Railway, for the half-year ending the 30th June 1871. The net profits shew but a slight improvement over the previous year.

I have the honour to be
Sir
Your most obedient servant

H. L. Prendergast Major RE
Ag. Cons. Engr. for Railways

Madras
9th December
1871

P. W. 1871 Depart.

26 Railway Department.

No. 5963.

From

The Consulting Engineer for Railways,

To

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

Dated 9th } December 1871.
Received 15th }

Ecc: 3. No. 542

Forwarding the Revenue Analysis of the Madras Railway for the half-year ending the 30th June 1871.

No. 199/200 · 22nd Jany/72 with an order

Recyd Decr/71 No 109–111

No 199.

Ordered that these papers be forwarded to the Govt of India.

To the Govt of India Docket No 200 dd 22nd Jany/72

Despd 23-1-72

Copy of the above forwarded to the Govt of India

Despd 23-1-72

No. 5403

Govt. of 1872 Madras

PUBLIC WORKS.

To The Secretary to the Govt. of India

Dated

Recd. Encl.

G. 022 Jany 1872 199-200

Nos. 389-390 & 391

[illegible] Analysis. [illegible]

[illegible] the [illegible] from the [illegible] [illegible] [illegible] the [illegible] Analysis of the [illegible] [illegible] for the [illegible] year end 30th June 71

Forwards the [illegible] Analysis of the [illegible] [illegible] for the half year end [illegible] [illegible]