

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 3087	Press Mis.
Dated 7. 12. 1871.	

Not to be folded or roughly handled

Bo/

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 7th December 1871.

No. 111.

No. 3,087.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 22.

SIR,—I am directed to forward the Revenue Account and analysis of the traffic operations of the Madras Railway for the half-year ending 31st December 1870 prepared in accordance with the forms prescribed in the Resolution of the Government of India, under date the 22nd September 1870, No. 165-R., and accompanied by a memorandum by the Acting Consulting Engineer for Railways.

I have the honour to be,

Sir,

Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker.

CONSULTING ENGINEER'S OFFICE.

Railway Department.

No. 452-

From

Major H. L. Pendergast R. E.
Acting Consulting Engineer for Railways,

To

Colonel J. Carpendale R. E.
Secretary to Government,
Public Works Department,
Fort Saint George.

Sir,

I have the honour
to submit the Revenue Account
and Traffic Analysis of the
Madras Railway for the half-year
ending 31st December 1870, together
with a short Note thereon.

I have the honour to be,
Sir,

Your most obedient Servant.

H. L. Pendergast Major R. E.

Acting Cons: Eng^r for R. E.

Madras?
20th October
1871



Note to accompany the Revenue
Analysis for the half-year ending
31st December 1870. Madras Railway.

A close comparison of
the results of the Traffic operations
for the half-year ending 31st December
1870, with the results of previous
half-years has been made difficult
by the amalgamation of the South-
West and North-West Lines on the
1st July 1870, and also by the fact
of the Government of India having
prescribed the adoption of a new form
of Traffic Analysis.

2. A Tabular statement

appended shows in comparison some of the leading features of the traffic and revenues for the second halves of the three years 1868, 69, 70; by which the half-year under review compares unfavourably in almost every respect, with the previous corresponding period.

3. There is a decrease of 2.1 per cent in the absolute mileage of passengers of all classes, equivalent to a falling of 12.2 per cent in the units of passenger miles travelled over each mile of line. The filling of the passenger vehicles of all classes has fallen off very slightly.

4. There is a considerable increase in the mileage of horses, dogs and livestock, and a falling off in the mileage of carriages.

5. There is a decrease of 23.1 per cent in the absolute ton mileage of merchandize equivalent to a diminution of 31.0 per cent in the merchandize traffic per mile of line.

6. The total earnings have fallen 22.5 per cent, equivalent to a fall of 30.5 per cent in the earnings per mile open; these have not been so low since the second half of 63 during which period they were only 55 Rupees lower than

B. H. 18/11 De 1871
Pr. of Fort St. George No. 5020
RAILWAY DEPARTMENT.

From

The Consulting Engineer
for Railways,

To

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

Dated 20th } October 1871.
Received 23rd }

Enclosure No. 452.

Submitting
the Revenue Account
and Traffic Analysis
of the Madras Railway
for the half year
ending 31st Decem^r 1870.
No. 3686-3087-7th Dec^r 1871.

Copy

Statement exhibiting the leading features of traffic and revenue on the Madras Railway for the second halves of the years 1868, 1869 and 1870.

	Half-year ending		31 st Decr 1868	31 st Decr 1869	31 st Decr 1870.
Mean open mileage			666	702	783
Train mileage (passengers and goods)			718,321	769,009	774,792
Do—Do— per mile open			1078.5	1095.4	989.5
Mileage of Passengers 1 st class			811,156	814,127	714,060
2 nd			2,402,619	2,110,097	2,941,216
3 rd			52,126,719	47,296,460	45,696,973
4 th			No fourth class	3,276,512	4,010,046
Total of all classes			55,340,494	54,477,196	53,262,295
Mileage of Passengers per mile open 1 st class			1,218	1,160	912
2 nd			3,607	4,430	3,756
3 rd			78,268	67,376	58,361
4 th				4,668	5,121
Total for all classes			83,094	77,631	68,151
Average number of passengers in a train			1.13	1.06	0.92
2 nd			3.34	4.04	2.80
3 rd			72.57	61.50	58.98
4 th				4.26	5.18
Total of all classes			77.04	70.86	68.88
Mileage of Passengers vehicles (excluding horse boxes, baggage van (1869))			3007,985	3288,852	3314,280
Number of passengers in a vehicle			18.39	16.57	26.10
Mileage of Horse			489,624	408,042	428,446
Carriages			79,217	77,256	64,471
Do—Do—			240,396	192,905	215,261
Same stock.			376,600	348,783	497,466
Mileage of 1 ton of goods			23,181,212	25,170,563	19,361,653
Do—Do— per mile open			34,807	35,856	24,728
Average weight of goods in a train			32.30	32.70	25.00
Mileage of goods vehicles			7,465,893	8,523,272	6,823,704
Average weight of goods in a vehicle.			3.10	2.95	2.83
Earnings Coaching			10,79,608	10,35,126	9,90,732
Goods (including materials)			19,00,034	20,27,514	14,34,861
Miscellaneous			93,227	139,793	56,789
Expenditure			307,2,869	32,02,403	24,82,402
Net profit			13,22,882	17,16,989	13,62,258
Percentage of working expenses to gross receipts			17,49,987	14,85,446	11,19,944
Earnings per mile open			43	54	55
Expenditure per Do			4,614	4,562	3,170
Profit per Do			1,986	2,446	1,667
Earnings per train mile			22,628	2,116	1,503
Expenditure Do Do			4,28	4,17	3.20
Profit Do Do			1.84	2.23	1.68
Profit Do Do			2.46	1.94	1.62
Expenditure on Capital			879,33,736	914,49,300	9,91,74,292
Half-yearly percentage of profit			1.99	1.62	1.05

Madras 22
20th October 22
1871

Undersecretary to Major R.E.
Sg. Camp: Engr. for Railways

E.—GENERAL CHARGES.

HOME EXPENDITURE—										GOODS TRAFFIC.										Amount.	
(1)—Directors and Secretary										...										...	
(2)—Auditors and Accountants										...										...	
(3)—Consulting Engineer and Inspecting Officers' Fees and Travelling Allowances										...										...	
(4)—Office Expenses										...										...	
Salaries of Indian Management, including Offices—										...										...	
Salaries.										Travelling Allowances.										Overtime.	
Rs. A. P.										Rs. A. P.										Rs. A. P.	
4,236 4 7										19 8 9										78,900 6,72 188 1 10	
13,591 9 9										...										24,047 2,58 442 8 6	
1,564 14 8										...										12,427 1,80 061 3 11	
5,764 10 11										...										5,557 1,28 240 1 11	
2,423 1 7										...										3,884 1,45 047 0 7	
6,765 4 11										...										7,822 38,10 413 7	
1,32,637 13,22 083 14 4										...										1,32,637 13,22 083 14 4	
229										...										229 6,365 9 0	
8,333										...										8,333 91,985 9 0	
No.										...										No.	
142										...										142 1,220 4 0	
515										...										515 1,849 7 0	
3,064										...										3,064 1,040 8 0	
3,721										...										3,721 4,110 3 0	
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G.—SPECIAL AND MISCELLANEOUS EXPENDITURE.

1st.—Law Charges—				2nd.—Compensation—			
(1)—Claims for Goods, &c.				(2)—Personal injury...			
(3)—From Fire Insurance Funds				(4)—Rates and Taxes—			
(5)—From Revenue Funds				(6)—Contributions to Special Funds—			
(7)—Fire Insurance Fund				(8)—Fire Insurance Fund			
Total				Total			

Income Tax on net Traffic Earnings for year ending 31st March 1871—1st, 2nd & 3rd Instalments—Rs. 74,084 12 3

Assessment on Buildings, &c., for the years 1870-71 Rs. 1,634 0 5

Total Rs. 75,718 13 8

H.—COACHING TRAFFIC.

First Class.		Second Class.		Third Class.		Fourth (Cooly) Class.		Total.							
No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.						
Day ... 0 1 6		0 0 5		0 0 3		0 0 2									
Night ... 0 1 10		0 1 0		...		...									
1st.—Passengers—		2nd.—Passengers' Luggage—		3rd.—Military Baggage—		4th.—Carriages, Horses, Dogs, &c.—		5th.—Military Carriages, Horses, &c.—		6th.—Parcels—		7th.—Special Trains—		8th.—Post Office—	
Single journey.		Carriages, Horses, Dogs, &c.—		(1)—Carriages		(2)—Horses		(3)—Dogs...		(4)—Military Carriages, Horses, &c.—		(5)—Carriages		(6)—Horses	
Return journey.		(1)—Carriages		(2)—Horses		(3)—Dogs...		(4)—Military Carriages, Horses, &c.—		(5)—Carriages		(6)—Horses		(7)—Dogs...	
Season Ticket.		(1)—Carriages		(2)—Horses		(3)—Dogs...		(4)—Military Carriages, Horses, &c.—		(5)—Carriages		(6)—Horses		(7)—Dogs...	
Holders and Payers.		(1)—Carriages		(2)—Horses		(3)—Dogs...		(4)—Military Carriages, Horses, &c.—		(5)—Carriages		(6)—Horses		(7)—Dogs...	
Licenses ...		(1)—Carriages		(2)—Horses		(3)—Dogs...		(4)—Military Carriages, Horses, &c.—		(5)—Carriages		(6)—Horses		(7)—Dogs...	
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Madrass Railway.

TABLE A.

GENERAL STATEMENT of Working of half-year ending 31st December 1870.

PUBLIC TRAFFIC.		PASSENGERS OF TONS OF GOODS CARRIED.		EARNINGS.		Per-centage of total earnings contributed by each descrip- tion of traffic.
		Number.	Per cent. of total number and total tonnage.	Amount.	Per cent. of total earnings from Coaching and from Goods.	
COACHING.	1st Class ...	4676	0.5	Rs. 57,744	5.8	2.33
	2nd " ...	57831	5.2	76,462	7.7	3.08
	3rd " ...	825267	82.2	700,133	70.7	28.21
	4th " ...	109,585	11.1	42,574	4.3	1.71
	Miscellaneous earnings	...	...	113,819	11.5	4.58
	TOTAL...	991,459	100.0	9,90,732	100.0	39.91
GOODS.	Special ...	Tons. 78900	56.0	572,188	39.9	23.05
	1st Class ...	24047	17.0	258,443	18.0	10.41
	2nd " ...	12427	8.8	180,061	12.6	7.25
	3rd " ...	5357	3.9	128,240	8.9	5.17
	4th " ...	3884	2.8	145,047	10.1	5.84
	5th " ...	7822	5.6	38,105	2.7	1.54
	Railway materials	8333	5.9	91,985	6.4	3.71
	Minerals	...	...	20,613	1.4	0.83
	Miscellaneous earnings	...	...	...	...	...
	TOTAL...	140,970	100.0	14,34,681	100.0	57.80
Grand Total		...	...	24,25,413	...	100.00

	Coaching			Goods			Miscellaneous			Total			Percentage of profits on paid up Capital
	Total	Per ton per mile	Per ton per mile	Total	Per ton per mile	Per ton per mile	Total	Per ton per mile	Per ton per mile	Total	Per ton per mile	Per ton per mile	
Earnings	Rs. 9,90,732	57	14,34,681	Rs. 83	57,789	3	24,25,413	3-3-3	143				
Expenses	Rs. 4,63,233	27	7,99,553	Rs. 46	99,572	6	13,62,258	1-12-1	78				1.05
Profits	Rs. 5,27,499	30	6,35,228	Rs. 37	57,817	3	10,63,155	1-7-2	65				
Percentage of expenses to Earnings	47		56		175		55						

(2)
TABLE A.—(Continued.)
 GENERAL STATEMENT of Working of half-year ending

	Passenger.	Goods.	Mixed.	Total.
Number of trains run ...				
Train mileage (D. I. 1, page 7) ...			774,792	774,792
Gross ton mileage (M. I. 23, page 16) ...			13,772,747	13,772,747

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.
PASSENGER	1st-Class					0.307	5.526	0.922	Tons. 0.080
	2nd "					1.208	48.320	3.796	8.305
	3rd "					2.057	102.850	58.980	3.636
	4th "					0.218	10.900	5.176	0.324
	Others					5.498			0.807
Goods. (Vehicles of all kinds including brakes).						7.840	47.04		24.989
									42.998

OPEN MILEAGE ON 31st December 1870			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	
Sing'l.	Double.	Total.				1 to 100 and less.	1 to 101 to 200.	1 to 201 to 800.	Fixed power.	Locomotive.
						Length.	Inclination.	Length.	Inclination.	
743	743	743	8,623,916	11,607	68.57	11,378	92	11,650	0.65	1 in 60

(3)
TABLE B.
 STATEMENT showing in comparison the Coaching Traffic of the half-years ending 31st December 1869 and 31st December 1870.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.		NUMBER.		FARE PER MILE.		RECEIPTS.		AVERAGE MILEAGE.	
Table and Main head.	Sub-head.			Half 1869.	Half 1870.	Half 1869.	Half 1870.	Half 1869.	Half 1870.	Half 1869.	Half 1870.
						Pies.	Pies.	Rs.	Rs.		
X. (H.) 1		1ST CLASS PASSENGERS—									
		Single Journey		3798	2404			42,590	36,735	146	147
		Excess Fares		98	81			588	366	58	43
		Return Journey		1239	2220			21,781	19,088	281	138
		Troops and Police		61	46			1236	1405	778	1170
		Total		4098	4670			66,195	57,594	199	153
		Season Tickets						80	150		
		2ND CLASS—									
		Single Journey		48840	48695			71,758	67,477	83	31
		Excess Fares		439	430			393	344	80	18
		Return Journey		1996	2742			6,644	6,314	107	78
		Troops and Police		461	394			2278	2,427	316	394
		TOTAL...		51,297	57,851			81,073	76,662	61	59
		3RD CLASS—									
		Single Journey		839,807	765,970			6,52,037	6,26,013	50	82
		Excess Fares		857	5101			2,073	1,186	16	18
		Return Journey		39,571	46,884			41,381	32,598	201	136
		Troops and Police		10,955	13,573			26,427	20,086	150	190
		TOTAL...		890,933	825,867			7,20,917	7,00,133	53	55

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	NUMBER.		FARE PER MILE.		RECEIPTS.		AVERAGE MILEAGE.	
Table and Mean head.	Sub- head.		Half of 1869	Half of 1870	Half of 1869	Half of 1870	Half of 1869	Half of 1870	Half of 1869	Half of 1870
1	...	4TH CLASS—			Pies.	Pies.	Rs.	Rs.		
		Single Journey	88,690	109,585			34,845	42,574	37	37
		Excess Fares			3 pies	3 pies	.	.	.	.
		Return Journey					.	.	.	.
		~~Season Tickets~~								
		Troops and Police					.	.	.	.
		TOTAL..	88,690	109,585			34,845	42,574	37	37
2	...	PASSENGERS' LUGGAGE	Tons. 614	Tons. 397			26,265	16,625	123	174
3	...	MILITARY BAGGAGE	No. 488	No. 347			42,366	97,29	160	81
4	1	PUBLIC... Carriages	2,784	12,62			8,764	19,179	183	221
	2	Horses	1,406	1,266			1,867		150	170
	3	Dogs								
5	1	MILITARY... Carriages		2			46			184
	2	Horses		37			704			221
	3	Dogs		1			3			170
6	...	PARCELS	Tons. 1,005	Tons. 778			46,987	40,125	122	148
7	...	SPECIAL TRAINS	No. 5	No. 9			15,087	15,629	168	192
8	1	POST OFFICE—Haulage and hire of Post Office vehicles.								
	2	Special Trains								
	3	Parcels...					1311	1,148		
		TOTAL...					133,016	113,819		

[illegible]

(6)
TABLE C-(1).

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

DESCRIPTION.	QUANTITY.		RECEIPTS.		Increase in Quantity.	Decrease in Quantity.	Increase in Receipts.	Decrease in Receipts.
	2 nd half 1869.	2 nd half 1870.	2 nd half 1869.	2 nd half 1870.				
	Tons.	Tons.	Rs.	Rs.	Tons.	Tons.	Rs.	Rs.
Baggage (Military)	53	5	1470	231	.	48	.	1249
Ballast and stones	3717	2378	7412	721	.	1389	.	201
Bamboo	1,806	1739	10442	2741	.	63	.	701
Beer	329	393	7066	8439	63	87	1373	.
Betel Nuts	2,037	2,117	20,035	21,737	80	.	4,702	.
Brown and Copper	33	440	5648	8645	127	.	2,847	.
Charcoal, Coke and Coal	1,013	298	8332	2325	.	712	.	6227
Chillies	800	627	6620	4244	220	173	.	2376
Chunam and Lime	632	433	1486	850	.	199	.	636
Cloth and Rice Goods	2,009	2,078	53849	57,995	69	.	.	1854
Crocodites	441	236	5348	1286	.	245	.	4,068
Coffee	347	706	6,339	13,845	357	.	7,506	.
Commissariat Stores	21	62	4,058	4,058	62	.	1,058	.
Cotton Laces	8,957	1,915	36,269	57,635	362	7,042	3,086,334	.
Half pressed	962	362	17,197	42,757	1,150	.	25,560	.
Full pressed	2,590	2,106	14,789	10,430	.	1,184	4,357	.
Oil of Redwood	9235	6,229	41,367	22,733	.	4,066	19,218	.
Firewood	1542	1371	13,509	11,916	.	171	1,593	.
Fruits and Vegetables	63	28	2,584	1,131	.	35	1,453	.
Furniture	686	473	9,929	7,045	.	214	2,884	.
Ghee	10,788	8,428	83,362	64,326	.	2365	19,036	.
Grain	4,085	1,523	1,0074	17,583	.	2,662	25,491	.
Grains	602	608	3,093	2,933	6	.	160	.
Ground Nuts	1576	1311	17,853	13,475	.	265	4,378	.
Gummi	13	.	81	.	.	13	81	.
Indigo	698	602	13,621	9,636	.	96	2,985	.
Iron of all kinds	3,250	2,545	53,604	38,362	.	705	15,242	.
Pepper	1758	2,088	11,435	22,172	330	.	10,737	.
Peppercorns	218	209	6052	5,734	.	2	318	.
Oil of all kinds	2383	3,025	20,979	32,431	648	.	11,452	.
Ordnance stores	59	162	1,900	5,086	103	.	3,186	.
Opium	2549	903	11,747	2,968	.	1597	8,779	.
Pitch, Tar and Asphalt	103	13	1581	209	.	90	1372	.
Potatoes	1635	1,805	21,048	24,528	250	.	3,500	.
Powder and Ammunition	29	67	2,150	5,240	38	.	3,090	.
Raggy	5945	3422	54,084	30,701	.	2523	23,386	.
Rice	11,931	19,318	73,164	124,635	7287	.	51,471	.
Salt	26,088	34,603	194,082	184,124	.	1,958	9,958	.
Salt-fish	1546	1,808	20,586	23,077	262	.	2,491	.
Salt-petre	370	290	5,511	6,004	.	80	4,93	.
Sticks of all kinds	4,972	5,354	46,205	44,407	382	.	1,798	.
Skins	1319	1411	21,577	22,233	92	.	716	.
Sugar of all kinds	1683	1201	12,834	11,342	.	482	1,492	.
Sundries	132,114	15,312	139,969	216,978	2098	.	37,009	.
Tamarind	2036	2,716	14,727	19,163	680	.	4,436	.
Timber	6,135	4,665	39,408	27,170	.	1470	12,238	.
Tobacco	1,769	1741	12,300	12,488	.	28	118	.
Twine	1398	1487	37,724	86,599	89	.	1,125	.
Wine and spirituous liquors	1108	1194	21,931	24,994	86	.	2,163	.
Total	146,750	132,866	16,56,720	13,28,449	14,617	28,501	17,5021	4,85,292

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TABLE D.
Statement of mileage maintained.*

REFERENCE TO REVENUE ACCOUNT.	DETAILS.	2 nd HALF OF 1869			2 nd HALF OF 1870			Total Increase.	Total Decrease.
		Depart-mentally.	By Contract.	Total.	Depart-mentally.	By Contract.	Total.		
IX. (A.)	1. Mean miles of line maintained.	660 1/2	.	660 1/2	666 7/12	.	666 7/12	21 5/12	.
	2. " Sidings maintained, Total.	.	.	.	76 5/6	.	76 5/6	.	.
	3. " Single Track Total including sidings.	.	.	.	743 5/12	.	743 5/12	.	.

* From Revenue Funds.

TABLE D-I.
Statement of Train Mileage.

DETAILS.	TRAIN MILES RUN FOR			HOURS OF		
	Traffic Department.	Locomotive Department.	Maintenance Department.	Assisting Engines.	Shunting, Piloting, &c.	Miscellaneous Services.
	XIV. 1.	XIV. 2.	XIV. 3.	XIV. 4.	XIV. 5.	XIV. 6.
Reference to Revenue Account.	XIV. 1.	XIV. 2.	XIV. 3.	XIV. 4.	XIV. 5.	XIV. 6.
1. half 1869	769,009	10,280	32,098	not recorded	not recorded	not recorded
2. half 1870	774,792	10,360	32,199	16	17,692	1777
3. Increase in 1870	5,783	80	101	.	.	.
4. Decrease in 1870	5,783	80	101	.	.	.
TOTAL	774,792	10,360	32,199	16	17,692	1777

(8)

TABLE E.

Maintenance of Way Works and Stations.

RAILS.

REFERENCE TO REVENUE ACCOUNT		1 st HALF OF 1879		2 nd HALF OF 1879.			
Table and Main head.	Sub- head.	Total.	Total.	Increase.	Decrease.		
XIV.	18	Train Mileage (D. I. 1, page 7)	81,387	87,357	5,964		
		Ton Mileage (D. I. 2, page 16)	2,772,247				
DETAILS.		1 st HALF OF 1879.	2 nd HALF OF 1879.			Per mile of line maintain- ed.	Per 1,000 Ton Miles.
		Total.	Total.	Increase.	Decrease.	D. 3.	D. 5.

		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
SUPERINTENDENCE—									
1 & 2	Engineers' salaries and allowances	2,799			44,70	40.05	7.00	3	8
3 to 5	Inspectors' and Plate-layers' salaries and allowances, including overtime	5,975	14,074	4,707	21.0	18.93	3.35	1	9
6	Office expenses	8,325			12.59	11.29	1.97	1	1
MAINTENANCE AND RENEWAL OF PERMANENT WAY—									
1	Wages	27,989	137,140	134,847	205.74	184.47	32.22	1	2
2	Materials	290,879	123,146	168,723	163.24	144.20	28.69	15	4
REPAIRS OF BRIDGES, &c. WAGES AND MATERIALS—									
1	Bridges & Tunnels	21,778			32.67	29.29	5.12	3	8
2	Miscellaneous	28,575			42.87	38.43	6.71	3	7
REPAIRS OF STATIONS AND BUILDINGS : WAGES AND MATERIALS—									
1	Repairs of all except Staff Quarters	31,093	2,532		32.33	29.00	5.06	3	9
2	Repairs of Staff Quarters	5,312			7.97	7.15	1.25		8
MAINTENANCE BY CONTRACT—									
UNCLASSIFIED EXPENDITURE—									
1	Plantations								
2	Tools and Plant	6,123	6,123		9.19	8.24	1.43		9
3	Less on Stores, &c.	5,672	5,672		8.51	7.63	1.33		9
TOTAL		7,95,519	1,400,366	1,17,95	3,20,748	600.92	538.81	94.09	3 2 2

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TABLE E-I.

Maintenance of Way.

RAILS.

Number.	DETAILS.	Double-headed.	Bridge.	Flat-footed.	Others.	Total.
1	Miles of rail in way, including sidings	78 lbs. 117-65-23	lbs. 370-65-34	lbs.	m. ch. 8 0-54-18	m. ch. 1583-28-59
2	Average age of rails in way at the middle of the half-year					7 years months 10
3	Rails inverted { Number Miles	Nil				
4	Proportion inverted per mile of rail	Nil				448
5	Rails renewed { Number Miles					1583-28-29
6	Proportion renewed per mile of rail					0-28
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)					

TABLE E-II.

Maintenance of Way.
SLEEPERS.

SLEEPERS.								IRON.	
Number.	DETAILS.	WOOD.					Longitu- dinal Sal Sleeper 10"X5"	Pairs of Oval Bowls 95 lbs.	Sibley's Wrought- iron Sub-Way.
		Transverse.				Total.			
		Teak 10'X10"X5"	Sal 10'X10"X5"	Jungle 10'X9"X5"	Iron-wood 10'X10"X5"				
		No.	No.	No.	No.	No.	Linl. Yds	No.	Linl. Yds.
1	Number of sleepers in way, including sidings	No. 964	No. 263,916	No.	No.	No. 264,886		No. 72,076	
2	Average age of sleepers in way at the middle of the half-year	years-days 7. 149	years-days 11. 160	No.	No.	No.		No.	
3	Number renewed		No. 22,709	No.	No.	No. 22,709		No.	
4	Ditto. per cent. of (1)		No. 8,604	No.	No.	No.		No.	

(10)

TABLE F.

Locomotive Department Expenses.

REFERENCE TO REVENUE ACCOUNT.		1 st HALF OF 1869.		2 nd HALF OF 1870.			
Table & Main head.	Sub- head.	Total.	Total.	Increase.	Decrease.		
XIV.	...						
	Train Mileage (D. I. 1, p. 7) ...	811,887	87,357	5,964	.		
	Ton Mileage (M. I. 23 p. 16) ...	127,720	7,47	.	.		
	DETAILS.	1 st HALF OF 1869.	2 nd HALF OF 1870.			Per Train Mile.	Per 1,000 Ton Miles.
		Total.	Total.	Increase.	Decrease.		
	GENERAL SUPERINTENDENCE—	Rs.	Rs.	Rs.	Rs.	Rs.	A. C.
1 & 2	Salaries of Locomotive Superintendents and Assistants, including allowances ...		5,568			1.31	. 8
2 to 5	Ditto of Foremen, including allowances and overtime ...	37,098	16,784	1,772	.	3.94	. 21
6	Office Expenses ...		16,578			3.85	. 21
	RUNNING EXPENSES—						
1 & 2	Wages of Drivers and Firemen, including overtime ...		91,647			21.52	. 11 6
3	Fuelling, cleaning and looking after Engines ...	122,492	16,138	4,641	.	3.86	. 2.
4	Contingent Expenses ...		3,488			0.10	. 1
	FUEL—						
1	Coal ...		3,880			0.90	. 6
2	Coke ...		48,829			11.48	. 61
3	Patent Fuel ...	270,523	61,345	.	6,880	14.41	. 7 8
4	Wood ...		92,589			21.75	. 11 7
1, 2 & 3	WATER—	70,311	12,364	2,053	.	2.91	. 17 0
5	OIL, TALLOW, &c.—	22,914	10,684	.	12,330	2.49	. 14
	MAINTENANCE AND RENEWALS—						
1 & 2	Wages, including overtime ...	65,949	73,981	8,032	.	17.38	. 9 3
3	Materials ...	66,520	48,887	.	17,633	11.49	. 6 2
7	SERVICES OF OTHER LINES—						
8	UNCLASSIFIED EXPENDITURE—						
	TOTAL.	576,807	1,99,462	16,498	93,843	17.33	3 14 7
		Total Quantity.	Total Quantity.	Increase.	Decrease.	Quantity per Train Mile.	Quantity per 1,000 Ton Miles.
1	Coal consumed ...	Tons. 2799	Tons. 158	Tons.	Tons.	Lbs. 0.42	Lbs. 3
2	Coke, do. ...	3575	1526	.	2,049	4.00	27
3	Patent Fuel consumed ...	.	2020	2020	.	6.00	35
4	Wood do. ...	15420	20667	.	5247	57.00	362

IX. (B.) 8

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TABLE F-1.

Locomotive Power.

REFERENCE TO REVENUE ACCOUNT.		DESCRIPTION.		Passenger.	Passenger.	Goods.	Tank.	TOTAL.
Table & Main head.	Sub- head.							
		Wheels coupled ...				103	9	112
		Weight on driving axle ...	Some 14			7.6 2.5 2.5	8.6 6.3 6	
		Total weight in steam, exclusive of tender ...	Some. Out 24-15			7.6 2.5 2.5	8.6 6.3 6	
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department ...		2	.	103	19	124
		2.—Average number of Locomotives constantly under repairs ...		1	.	14	4	19
		3.—Average number of Locomotives at work (1-2) ...			.	50	3	53
		4.—Train miles hauled by each class of Locomotives at work (3) ...			.	949,160	55,782	1,004,942
		5.—Average train miles hauled by each Locomotive at work (3) ...			.	9,587	1,291	13,878
		Per half year ...			.	103	116	219
		Per day ...			.			24 1/2
		6.—Average speed between stations of trains ...			.			15 3/8
		Passenger ...			.			18
		Goods ...			.			23
		Mixed ...			.			14 1/2
		7.—Average through speed of trains ...			.			17
		Passenger ...			.			
		Goods ...			.			
		Mixed ...			.			
		8.—Weight of coal, &c., used per train mile ...	To be separated as possible among the classes of Locomotives.		.	23-48	9-34	
		9.—Weight of wood used per train mile ...			.	72-63	62-5	
		10.—Average gross weight of the trains hauled by each class of Locomotive ...			.			Some 87,777-5-9

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TABLE G.

Carriage and Wagon Expenses.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	1 st HALF OF 1879.	2 nd HALF OF 1870.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.		
XIV.		Train Mileage (D. I. 1, p. 7)	762009	774792	5783	.		
		Vehicle Mileage. { Coaching (M. I. 8, p. 16) ...	.	3714.933	.	.		
		Goods (M. I. 14, p. 16) ...	.	5714.774	.	.		
		Total ...	.	9429.707	.	.		
			1 st HALF OF 1879.	2 nd HALF OF 1870.				
			Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	As. Pies	Rs. A. P.
GENERAL SUPERINTENDENCE—								
IX. (C.) 1.	1 & 2	Salaries of Superintendents and allowances ...	.	596	.	.	0.15	1
	3 to 5	Salaries of Foremen and allowances, including overtime ...	2488	18524	1747	.	0.46	3
	6	Office Expenses ...	.	1782	.	.	0.44	3
REPAIRS AND RENEWALS OF VEHICLES AND MACHINERY—								
2	1 to 3	COACHING VEHICLES. { Wages including overtime ...	7658	5637	.	2021	1.40	(a) 1 8 3
		Materials ...	8509	6639	.	1870	1.64	(a) 1 12 7
	1 to 3	GOODS VEHICLES. { Wages, including overtime ...	10901	10942	41	.	2.71	(b) 1 14 8
		Materials ...	1635	16045	.	90	3.98	(b) 2 12 1
CLEANING AND OILING—								
3	1	Labor, including wages of oilers, &c. ...	.	6314	6314	.	1.57	10
	2	Stores ...	.	19227	19227	.	4.76	2
4	...	UNCLASSIFIED EXPENDITURE—						
TOTAL ...			45688	69036	27329	3981	17.11	7 5 2

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TABLE H.

Traffic Expenses.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	1 st HALF OF 1879.	2 nd HALF OF 1870.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.		
XIV.		Train Mileage (D. I. 1, p. 7)	762009	774792	5783	.		
		Vehicle Mileage. { Coaching (M. I. 8, p. 16) ...	.	3714.933	.	.		
		Goods (M. I. 14, p. 16) ...	.	5714.774	.	.		
		Total ...	.	9429.707	.	.		
			1 st HALF OF 1879.	2 nd HALF OF 1870.				
			Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	As. Pies	Rs. A. P.
SALARIES, WAGES, &c.								
IX. (D.) 1.	(1 & 3)	General Superintendence, including travelling allowances ...		32031			7.94	3 6 4
	(2 & 4)	Office Establishment and Contingencies ...		13182			3.27	1 6 4
	b	Station Staff ...	142105	96998	1637	.	24.04	10 4 7
	c	Train Staff ...		21531			5.33	3 4 6
2	1 to 3	FUEL, LIGHTING, WATER AND GENERAL STORES ...	40538	29407	.	8620	7.29	3 1 0
3		CLOTHING ...		2531			0.63	4 4
4		PRINTING, STATIONERY AND TICKETS ...	12075	13201	1126	.	3.27	1 6 5
5		CATTLE USED FOR TRAFFIC PURPOSES, AND DELIVERY AND COLLECTION OF GOODS ...		.			1452	0.10
6		MISCELLANEOUS EXPENSES ...	1847	395	.		0.33	2 4
Payments to OTHER LINES—								
1		Hire of Vehicles ...		1357	1357	.	0.33	2 4
2		Mileage of Foreign Stock ...		.				
3		Expenses at Joint Stations ...		.				
4		Expenses at ...		.				
8		UNCLASSIFIED EXPENDITURE						
		TOTAL ...	516818	319627	4.114	18072	52.20	22 5 5

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TABLE J.
General Charges.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	1 st HALF OF 1879	2 nd HALF OF 1870.			Cost per Train Mile.
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	
IX. (E.) 1	...	HOME EXPENDITURE	11,106	5,575	.	5,531	1.37
		<i>Salaries of</i> INDIAN MANAGEMENT <i>including Office</i>					
	1	Agent's Office, including travelling and other allowances		4,256			1.05
	2	Auditor's Office, ditto.		13,592			3.37
	3	Account's Office, ditto.		1,565			0.39
	4	Pay Master's Office, ditto.	6,667	6,067	.	25,938	1.56
	5	Store Department, ditto.		2,423			0.60
	6	Medical Department, ditto.		6,826			1.69
	7	Rents of buildings & lands.	679	85	.	594	0.02
	8-10	Contingencies, Stationery, and Medicine		1,609	1,609	.	0.40
	3	POLICE (Total Charges)		8,731	8,731	.	2.16
	4	ADVERTISING		85	85	.	0.02
		ELECTRIC TELEGRAPH					
	1 to 4	Salaries, &c.		13,721	13,721	.	3.40
	5	Maintenance (wages and stores)		9,844	9,844	.	2.44
	6	CLEARING ACCOUNTS WITH OTHER LINES		.	.	.	
	7	UNCLASSIFIED EXPENDITURE <i>Law on Stores</i>		110	110	.	0.03
		TOTAL	72,453	74,429	34,100	32,123	18.44

(15)
TABLE K.
Steam Boat Service.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	1 st HALF OF 1879	2 nd HALF OF 1870.		
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.
IX. (F.) 1	...	WORKING VESSELS—	.	.	.	.
	2	REPAIRS—	.	.	.	.
	3	FUEL—	.	.	.	.
	4	MISCELLANEOUS STORES—	.	.	.	.
	5	STEAM TRAFFIC AGENCIES—	.	.	.	.
	6	UNCLASSIFIED EXPENDITURE	.	.	.	.
		TOTAL	.	.	.	.

TABLE L.
Special and Miscellaneous Expenditure.

IX. (G.) 1	...	LAW CHARGES—	553	10,875	10,322	
		COMPENSATION—				
	1	<i>For goods lost or damaged</i>	158	87	662	
	2	<i>For Personal Injury</i>		75,719	75,719	
	3	<i>For other claims</i>				
		RATES AND TAXES—				
		CONTRIBUTIONS TO SPECIAL FUNDS—				
	1	Fire Insurance Fund	20,727	20,727		
	2	P. W. Renewal Fund				
	3	Casualty Fund				
		TOTAL	21,135	108,138	86,703	

1.—The unit of *Definitions.*

Unit of passenger traffic	is—1 passenger plus free luggage.	Approximate weight of units to be adopted in these calculations	
" " carriages	is—1 carriage.	Coaching—	Coaching—contd.
" " horses	is—1 horse.	1st Class Passenger with	A Horse ...
" " luggage	is—1 ton.	free luggage ...	A Dog ...
" " goods	is—1 "	2nd " " " ...	Goods—
" " cattle	is—1 animal.	3rd " " " ...	A Head of horned
		4th " " " ...	cattle. ...
		A carriage (average for	A head of sheep,
		2 and 4 wheeled) ...	goats, &c. ...
		6 75	0 50

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

DETAILS.	Total Mileage of each description of Rolling Stock.	Total Mileage of units of Traffic.	AVERAGE CONTENTS IN UNITS OF EACH VEHICLE.		Average weight of Rolling Stock in Tons.	Total average weight including contents of each Vehicle in Tons.	Ratio of weight of paying to total load.	TON MILEAGE.		Gross Ton Mileage.
			No.	Weight in Tons.				Profitable.	Unprofitable.	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(k)
COACHING—										
1 1st Class ...	288,090	70,170	3.00	0.2625	6.7000	6.9625	0.03770	1,657,702		
2 2nd " ...	935,764	294,216	3.14	0.2775	6.8450	7.14975	0.03863	6,690,479		
3 3rd " ...	1,593,443	456,697	28.68	1.79250	5.9258	7.7163	0.23224	12,298,671		
4 4th " ...	169,008	140,046	23.72	1.40125	6.0000	7.485125	0.19820	1,264,708		
5 Carriage Trucks ...	5,160	8,471	1.14	0.38475	5.0625	5.44725	0.07063	308,641		
6 Horse Boxes ...	232,735	644,770	2.77	1.230575	7.0875	8.327075	0.14886	1,938,002		
7 Luggage Vans ...	489,233	206,752	0.42	0.42056	7.2500	7.67056	0.05483	3,752,691		
8 Total Coaching Vehicle Mileage ...	3,714,933									
9 Passenger Engines & Tenders ...										
10 Passenger Brake-vans ...	382,053				6,9972			13,474,274		
11 Total Coaching Ton Mileage ...								2,673,301		
								27,910,894	16,147,575	44,058,469.

[illegible]

(18)

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 & Miscellaneous (f)	Total.
Expenses due to Coaching	13,657.3	176,222	23,464	82,176	24,043	36,072	478,490
Goods	240,318	310,224	44,198	126,414	42,325	63,500	826,979
TOTAL...	376,831	486,446	67,662	208,590	66,368	99,572	1,305,469

Deductions have been made on account of Miscellaneous Receipts.

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.	Total Coaching Stock.	Goods Vehicles.	Mineral Trucks.	Total Goods Stock, &c.
Maintenance (a)...	8,108	32,723	60,153	6,186	1509	9479	18,355	136,573	240,318	.	240,318
Locomotive (b) ...	10,466	42,242	77,651	7,985	1,949	12,236	23,693	176,222	310,224	.	310,224
Carriage and Wagon (c) ...	1504	5911	10,064	1,068	358	1469	3,090	23,464	44,198	.	44,198
Traffic (d) ...	5267	20,700	35,248	3,738	1,253	5148	10,822	82,176	126,414	.	126,414
General (e) ...	1,541	6,056	10,313	1,094	367	1506	3,166	24,043	42,325	.	42,325
Special & Miscellaneous	2,311	9,086	15,472	1,641	530	3,262	4,750	36,072	63,500	.	63,500
TOTAL...	29,197	116,718	208,901	21,712	5,986	32,100	63,976	478,490	826,979	.	826,979

(19)

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.	Goods Vehicles.	Mineral Trucks.
Maintenance*	Pies. 6.52	Pies. 6.77	Pies. 7.35	Pies. 7.03	Pies. 6.66	Pies. 7.82	Pies. 7.20	Pies. 8.07	.
Locomotive*	Pies. 8.41	Pies. 8.67	Pies. 9.36	Pies. 9.07	Pies. 8.21	Pies. 10.09	Pies. 9.30	Pies. 10.42	.
Carriage and Wagon*	Pies. 1.21	Pies. 1.21	Pies. 1.21	Pies. 1.21	Pies. 1.21	Pies. 1.21	Pies. 1.21	Pies. 1.21	.
Traffic*	Pies. 4.25	Pies. 4.25	Pies. 4.25	Pies. 4.25	Pies. 4.25	Pies. 4.25	Pies. 4.25	Pies. 4.25	.
General*	Pies. 1.24	Pies. 1.24	Pies. 1.24	Pies. 1.24	Pies. 1.24	Pies. 1.24	Pies. 1.24	Pies. 1.24	.
Special & Miscellaneous	Pies. 1.86	Pies. 1.86	Pies. 1.86	Pies. 1.86	Pies. 1.86	Pies. 1.86	Pies. 1.86	Pies. 1.86	.
TOTAL...	Pies. 23.51	Pies. 23.94	Pies. 25.17	Pies. 24.66	Pies. 20.27	Pies. 26.47	Pies. 25.06	Pies. 27.32	.
Cost per Unit	Pies. 7.53	Pies. 7.62	Pies. 7.87	Pies. 1.04	Pies. 17.78	Pies. 9.56	Pies. 59.59	Pies. 8.06	.

M.—V.

Statement showing in comparison the Receipts and the Carrying Cost per unit per mile of Coaching and Merchandise 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.	Pies.	Pies.
1st Class	15.63	7.85	Profit 7.68	49.45
2nd "	4.99	7.62	Profit 2.07	40.41
3rd "	2.94	.87	Profit 1.00	32.24
4th "	2.04	1.04	Profit 8.46	24.99
Carriages	26.24	17.78	Profit 19.86	43.16
Horses and Dogs	6.118	9.56	Profit 19.86	43.16
Luggage	79.44	59.59	Profit 19.86	43.16
Goods—	Pies.	Pies.	Pies.	Pies.
Goods	11.18	8.06	Profit 3.12	27.91

Sketch Revenue Account for the Specimen Analysis of Cost.

Passenger Train Mileage	...	...
Goods " "	...	...
TOTAL	...	...

EXPENDITURE.		RECEIPTS.			
	Rs.	Rs.		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...		

List of Rates and Fares.

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

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

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

Cattle.— Cattle sent singly will be charged for at the rate of $\frac{1}{2}$ Rupee per mile. Sheep in waggon loads

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

examples:—

2 picas per 82 lbs per mile

For Horses, Carriages, and Dogs

One Horse ————— 1 1/2 times per mile

Two horses (if one property) 2 1/4 —————

Three horses (Do) 3 —————

Four-wheeled carriage 2 1/2 —————

Two-wheeled ————— 1 1/2 —————

Parauquins ————— 1 —————

Dogs —————

51 to 100 ————— 1 — 0 — 0 — 0

101 to 150 ————— 1 — 4 — 0 — 0

151 to 200 ————— 1 — 8 — 0 — 0

201 to 250 ————— 1 — 12 — 0 — 0

251 to 300 ————— 2 — 0 — 0 — 0

301 to 350 ————— 2 — 4 — 0 — 0

351 to 400 ————— 2 — 8 — 0 — 0

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for the half year end-
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1870. N. H. G. S. R. and
accompanied by a

a letter and answer to
 the Acting Engineer for
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Railways
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The Ag Consulting Engrs
for Railways
and
To the Secretary to the
Govt of India

Encl. B

G. O. 7th Decr 871. No 3086-3087

Nos. 119-110 4111

Re: Accts + Traffic Analysis

Issuing orders on the Re: Accts
+ traffic analysis of the works
for the half year ending
31st Decr/71.

Forwarding the Re: Accts
+ traffic analysis of the works
for the half year
ending 31st Decr/71.