

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 693	(Ry)	Press Mis.
Dated 28-2-	1877.	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
23th February 1877. No. 693.*

No. 719. Read the following endorsement of the Consulting Engineer for Railways, dated Madras, 20th February 1877, No. 119 :—

Read the following :—

REVIEW of the Revenue Account of the South Indian Railway for the half-year ended 30th June 1876.

SUBMITTED to Government.

2. The detailed comparison with the corresponding half of the previous year is of little value, owing to the different conditions under which the line was worked. The large addition to the open mileage had a general tendency to cheapen work, but this was more than counterbalanced by certain abnormal charges in the Locomotive Department. A general comparison was given in the Note on the Revenue Account, and the cause of the abnormal charges referred to was there explained.

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

No. 720. ORDER THEREON, 28th February 1877, No. 693.

RAILWAY, No. 65.

ORDERED to be forwarded to the
Government of India.

(True Extract.)

(Signed) J. H. M. SHAW-STEWART, Lt.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways.
„ Examiner of Railway Accounts.

Exd. S. T. Austin.
Spare Copies

REVIEW OF THE REVENUE ACCOUNT

OF THE
South Indian Railway
For the half-year ended *30th June* 187*6*

TABLE A.
General Statement of working of half-year ending 30th June 1876.

I.—Description of Railway worked.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Gauge of railway.	Length sanctioned.	OPEN MILEAGE AT THE END OF THE HALF-YEAR.				Mean mileage worked.	Number of Stations open at the end of the half-year	Average distance between Stations.	TOTAL LENGTH OF THE FOLLOWING GRADIENTS.			STEEPEST GRADIENT WORKED BY			
		Single.	Double.	Total.	Sidings.				and less.	1 st to 2 nd	1 st to 3 rd	Fixed power.	Locomotives.		
														Length.	Inclination
In.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	No.	Miles.	Miles.	Miles.	Miles.	Miles.			
3 617	397.57	397.57	397.57	28	397.57	397.57	46	9.3	9.55	55.32	63.44	-	-	9.55	1 mi. 10

II.—Financial Results.

17	18	19	20	21	22	23	24	25	26
Total Capital authorized to be raised.	Total Capital paid up to end of half-year.	Total Capital withdrawn to end of half-year	Total Capital expended on open mileage, inclusive of rolling stock.	Cost per mile open.	Earnings.	Expenses.	Profits.	Percentage of profits on paid up Capital.	Percentage of profits on Capital expended on open mileage, inclusive of rolling stock.
£	£	£	£	£	Rs.	Rs.	Rs.		
<i>3702155</i>	<i>3659505</i>	<i>3507480</i>	<i>2440359</i>	<i>6138</i>	<i>940034</i>	<i>597026</i>	<i>343008</i>	<i>0.898</i>	<i>1.247</i>

III.—Summary of General Results.

27	COACHING.				BUT EXCLUDING STEAMBOAT.				30	37
	Total.	Per Passenger train mile per week.	Per mean mile open per week.	Total.	Per goods train mile per week.	Per mean mile open per week.	Total.	Per total train mile per week.		
Earnings (from ...)	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Total including sundries and steamboat.	Rs.
<i>575963</i>	<i>4.052</i>	<i>55.720</i>	<i>320958</i>	<i>2.551</i>	<i>31050</i>	<i>940034</i>	<i>350890</i>	<i>940034</i>	<i>940034</i>	<i>940034</i>
<i>293320</i>	<i>2.063</i>	<i>28.376</i>	<i>66183</i>	<i>2.116</i>	<i>25.751</i>	<i>597026</i>	<i>22228</i>	<i>597026</i>	<i>597026</i>	<i>597026</i>
<i>282643</i>	<i>1.989</i>	<i>27.344</i>	<i>54775</i>	<i>0.435</i>	<i>5299</i>	<i>343008</i>	<i>280</i>	<i>33.183</i>	<i>343008</i>	<i>343008</i>
<i>50.927</i>	<i>Nil</i>	<i>Nil</i>	<i>82.934</i>	<i>Nil</i>	<i>Nil</i>	<i>63.511</i>	<i>Nil</i>	<i>Nil</i>	<i>63.511</i>	<i>63.511</i>
Percentage of expenses to earnings...										

* The section from *Grade to Trichinopoly* during the half year was still the *Broad Gauge*, and from *Arconim to Congoveran* on *3' 6" Gauge*, the rest of the line on *Broad Gauge*.

IV.—Traffic Earnings.

38		39		40		41		42		43	
Description.		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.						
Coaching (Revenue Account)	(1st Class	35644	0.265	Rs. 8986	Rs. 1.560	61.27					
	2nd "	30758	2.286	18069	3.137						
	3rd "	1311305	97.449	521386	90.524						
	4th "	-	-	-	-						
	Miscellaneous	Nil	Nil	27522	4.779						
	Total	1345627	100	575963	100						
	Less outstandings irrecoverable	Nil	Nil	-	Nil						
	Net Total	Nil	Nil	575963	Nil						
	Goods (Revenue Account)	(Special	24254	29.616	Rs. 90432		Rs. 28.175	34.144			
		1st Class	46614	56.919	205666		64.079				
2nd "		-	-	-	-						
3rd "		-	-	-	-						
4th "		614	0.750	6816	2.124						
5th "		64	0.078	1642	0.512						
Military Stores		256	0.313	4002	1.247						
Railway Materials		10093	12.324	11352	3.537						
Minerals		-	-	-	-						
Miscellaneous		Nil	Nil	1048	0.326						
Total	81895	100	320958	100							
Less outstandings irrecoverable	Nil	Nil	-	Nil							
Net Total	Nil	Nil	320958	Nil							
Sundries, including Electric Telegraph	Nil	Nil	43113	Nil	4.586						
Total Railway earnings	Nil	Nil	940034	Nil	100						
Steam boat traffic	Nil	Nil	-	Nil	Nil						
Total, including steam boat	Nil	Nil	940034	Nil	Nil						

V.—Working Expenses.

44	45	46	47	48	49	50	51	52	53
	Maintenance.	Locomotive.	Carriage and Wagon.	Traffic.	General.	Special and Miscellaneous.	Total Railway expenditure.	Steamboat expenses.	Total, including steam-boat.
~~Amount (Revenue Account) Form No.~~ Amount	Rs. 33869	Rs. 280630	Rs. 156029	Rs. 71012	Rs. 41802	Rs. 13684	Rs. 597026	Rs. --	Rs. 597026
Percentage of Expenses of each Department	5.673	47.005	26.134	11.894	7.002	2.292	100.000	Nil	Nil

Review of the Revenue Account of the
South Indian Railway, for the half-
-year ended 30th June 1876.

No. 119.

SUBMITTED

to

Government.

2. The detailed comparison with the corresponding half of the previous year is of little value, owing to the different conditions under which the line was worked. The large addition to the open mileage had a general tendency to cheapen work, but this was more than counterbalanced by certain abnormal charges in the Locomotive Department. A general comparison was given in the Note on the Revenue Account, and the cause of the abnormal charges referred to was

there

There explained.

P.W.D.
21 FEB 1877
1876

Maintainer

Lieut. A. G.

Consulting Engineer for Railways

6	1	Horses	...	...	147	332	14.99720.334
	2	Cattle	...	...			
		Total	267960	1305	3116	321200.28	

VL-Haulage and Working.

54	55	56	57	58	59	60	61	62	63	64	65	66
TRAIN-MILEAGE.												
Traffic.	VEHICLE-MILEAGE (EXCLUSIVE OF BRAKE-VANS).											
	Run for public traffic.						Total, including Miscellaneous.					
	Coaching.	Goods.	Total.	Miscellaneous.	Total, including Miscellaneous.		Coaching.	Goods.	Total.	Miscellaneous (for Revenue purposes).	Total, including Miscellaneous.	
267969	3321	271299	266226	241392	507568	35121	510779	214038	201553	415593	403933	41963299

VII-Average composition and weight of Trains.

67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
COMPOSITION.																
Nature of Trains.	Coaching Vehicles.										Goods Vehicles.					
	1st class.	2nd class.	3rd class.	4th class.	Carriage trucks.	Horse boxes.	Lug. vans.	Post Office vehs.	Brake vans.	Goods vehs.	Cattle vans.	Mineral trucks.	Brake vans.	Freight or live load.	Dead load, exclusive of engines and tenders and brakes.	Total.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	Tons.	Tons.	Tons.
Passenger ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goods ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mixed ...	0.622	0.711	7.536	...	0.023	0.126	0.476	0.402	0.274	8.944	0.062	...	...	0.025	34.477	85.281/19.758

VIII-Average loads of Vehicles.

84	85	86	87	88	89	90
Details.	Average carrying capacity.		Average contents of each vehicle.		AVERAGE WEIGHT	
	No.		No.		Of freight.	
	No.		Tons.		Tons.	
Coaching—	No.		Tons.		Tons.	
1st class ...	16-853	...	1.273	5.431	0.111	15.542
2nd " ...	34-986	...	6.098	5.591	0.534	6.125
3rd " ...	40-773	...	23.744	4.682	1.484	6.166
4th " ...	...	...	...	...	...	...
Carriage trucks	1-500	...	1.900	4.414	0.641	5.055
Horse boxes ...	2-429	...	0.859	5.526	0.376	5.902
Luggage vans	5-087	...	0.421	5.635	0.421	6.056
Post Office vehicles	...	...	0.450	5.200	0.450	5.650
Goods vehicles	6-259	...	2.500	4.094	2.500	6.594
Cattle vans ...	5-791	...	0.518	3.825	0.518	4.343
Mineral trucks	...	...	...	...	...	...

* Administered.

TABLE B.

Statement showing in comparison the Coaching Traffic of the half-years ending
 30th June 1875, and 30th June 1876.

REFERENCE TO REVENUE ACCOUNT.	DETAILS.	NUMBER.		AVERAGE FARE PER UNIT PER MILE.		RECEIPTS.		AVERAGE MILEAGE.		TOTAL UNIT MILEAGE.	
		1st Half 1875.	2nd Half 1876.	1st Half 1875.	2nd Half 1876.	1st Half 1875.	2nd Half 1876.	1st Half 1875.	2nd Half 1876.	1st Half 1875.	2nd Half 1876.
X (II.) 1	1st CLASS PASSENGERS—										
	Single journey	1125	3562	11.987	8.080	3659	8572	52.117	57.186	58,606	203,698
	Excess fares	Nil	Nil	Nil	Nil	91	407	Nil	Nil	1974	14,913
	Return journey	284	2	6.263	7.814	207	7	22.345	86.000	63,466	172
	Troops and Police	3	2	11.907	7.814	13	7	86.000	86.000	258	172
1	TOTAL	1412	3564	11.352	7.886	3973	8986	47.597	61.388	67,184	218,788
	2nd CLASS—										
	Single journey	6773	30248	5.081	3.145	6013	17199	33.587	34.714	227,232	1,050,021
	Excess fares	Nil	Nil	Nil	Nil	349	553	Nil	Nil	26,658	85,630
	Return journey	838	270	3.627	3.074	285	257	24.576	61.767	25,672	73,677
1	TOTAL	7776	30518	4.515	3.002	7095	18019	36.337	37.759	282,539	1,152,328
	3rd CLASS—										
	Single journey	71709	139913	2.058	2.087	221782	512194	28.819	36.412	6,690,303	47,310,380
	Excess fares	Nil	Nil	Nil	Nil	513	1637	Nil	Nil	4174	16,112
	Return journey	18506	6816	2.508	2.638	5217	3101	21.860	22.437	399,461	1,529,281
1	TOTAL	739830	1311305	2.005	2.088	229700	521082	28.872	36.565	10,092,047	79,977,051
	4th CLASS—										
	Single journey	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Excess fares	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Return journey	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
...	TOTAL	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Season Ticket passengers—										
	Single journey	725807	1333123	Nil	Nil	231454	539970	28.900	36.429	2,097,590	4,850,409
	Excess fares	Nil	Nil	Nil	Nil	953	2587	Nil	Nil	10578	26,166
	Return journey	19658	816	Nil	Nil	5908	2101	21.949	22.437	43,140	152,928
...	TOTAL	749018	1345387	Nil	Nil	241330	548391	28.984	36.658	2,170,992	4,931,851
	Season Ticket passengers—										
	Single journey	120	240	Nil	Nil	25	50	41.000	41.000	4920	9840
	Excess fares	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Return journey	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	PASSENGERS' LUGGAGE										
	MILITARY BAGGAGE										
	Portage	121	121	12.145	15.890	1464	2770	Nil	Nil	2028	11,617
	Carriages	288	338	2.361	2.246	302	728	Nil	Nil	23,143	33,476
	Horses	426	876	19.862	0.367	51	9	Nil	Nil	24,557	62,221
3	MILITARY										
	Carriages	3	12	0.744	0.367	2	2	Nil	Nil	258	1047
	Horses	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Legs, &c.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Legs, &c.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
4	PARCELS										
	SPECIAL TRAIN										
	MISCELLANEOUS										
	Post Office										
	Haulage and hire of Post Office vehicles										
5	SPECIAL TRAIN										
	MISCELLANEOUS										
	Post Office										
	Haulage and hire of Post Office vehicles										
	SPECIAL TRAIN										
6	PARCELS										
	SPECIAL TRAIN										
	MISCELLANEOUS										
	Post Office										
	Haulage and hire of Post Office vehicles										
7	SPECIAL TRAIN										
	MISCELLANEOUS										
	Post Office										
	Haulage and hire of Post Office vehicles										
	SPECIAL TRAIN										
8	PARCELS										
	SPECIAL TRAIN										
	MISCELLANEOUS										
	Post Office										
	Haulage and hire of Post Office vehicles										
9	SPECIAL TRAIN										
	MISCELLANEOUS										
	Post Office										
	Haulage and hire of Post Office vehicles										
	SPECIAL TRAIN										
Less outstandings irrecoverable											
TOTAL											2,555,503
Net Total											2,555,503
Approximate Ton mileage.											74 48514

* The assumed weight for Post Office vehicles has been increased from 0.150 to 0.450 of a ton for this half year.

Traffic Expenses.

REFERENCE TO REVENUE ACCOUNT.		1st HALF 1875.				2nd HALF OF 1876.					
Table and Main- head.	Sub- head.	Total.	Increase.	Decrease.	Total.	Increase.	Decrease.	Cost per train mile.	Cost per 1,000 vehicle miles.		
XIV. 1	...	154,593	267,969	113,376	...	...	...	...	...	...	...
	Train mileage (D-I. 2, page 7)	...	...	...	...	...	...	...	...	...	...
	(Coaching (M-I. 9 a, page 18)	...	...	...	...	...	...	...	...	...	...
	Vehicle mileage... (Goods (M-I. 16 a, page 18)	...	...	...	...	...	...	...	...	...	...
	(Total	251,637	507,558	255,921	...	...	...	...	...	...	...
DETAILS.											
IX. (D.) 1	SALARIES, WAGES, &c.—	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	General Superintendence, including travelling allowances	4852	7995	3143	-	-	-	0.477	1.575	0.477	1.575
	Office Establishment and Contingencies	1023	1967	944	-	-	-	0.118	0.388	0.118	0.388
	Station Staff	1577	4155	2577	-	-	-	2.481	8.186	2.481	8.186
	Train	3752	5642	1890	-	-	-	0.337	1.112	0.337	1.112
	FUEL, LIGHTING, WATER AND GENERAL STORES	1629	3600	1971	-	-	-	0.215	0.709	0.215	0.709
	CLOTHING	874	1393	519	-	-	-	0.082	0.274	0.082	0.274
	PRINTING, STATIONERY, AND TICKETS	2803	5218	2415	-	-	-	0.312	1.028	0.312	1.028
	CHARGES FOR DELIVERY AND COLLECTION OF GOODS, &c.	-	-	-	-	-	-	-	-	-	-
	MISCELLANEOUS EXPENSES	268	684	416	-	-	-	0.041	0.135	0.041	0.135
PAYMENTS TO OTHER LINES—											
7	1	...	...	...	...	...	...	...	...	...	...
	2	...	...	...	...	...	...	...	...	...	...
	3	...	...	...	...	...	...	...	...	...	...
	4	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
Total		46758	71094	36077	11741	4245	14007	4245	14007	4245	14007
Net Total		7759	82	7677	0.005	0.016	0.005	0.016	0.005	0.016	0.005
Net Total		38999	71012	32013	-	-	-	4.240	13.991	4.240	13.991

TABLE J.

General Charges.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	1875-76		1876-77			
Table and Main- head.	Sub- head.		Total.		Total.	Increase.	Decrease.	Cost per train mile.
XIV. 1	...	TRAIN MILEAGE (D-I. 2, PAGE 7)	...	...	...	...	...	...
IX. (E.) 1	1 to 4	HOME EXPENDITURE	...	...	154,593	267,969	113,376	...
		INDIAN MANAGEMENT—						
1	...	Agent's Office, including travelling allowances and contingencies	...	...	5067	7305	2238	As. 0.436
2	...	Auditor's Office	...	...	4915	6643	1728	0.397
3	...	Account's Office	...	...	9494	12146	2652	0.725
4	...	Paymaster's Office	...	...	2123	3034	911	0.181
5	...	Store Department	...	...	651	1007	356	0.060
6	...	Medical Department	...	...	...	...	...	...
7	...	Rents	...	...	...	...	...	...
8 to 10	...	Miscellaneous expenses, including Printing and Stationery and Medicines	...	...	1000	1580	580	0.094
3	1 to 3	Police	...	...	...	...	...	...
4	...	ADVERTISING	...	...	87	508	421	0.030
		ELECTRIC TELEGRAPH—						
1 to 4	...	Salaries, &c.	...	...	3424	6880	3456	0.411
5	...	Maintenance (Wages and Stores)	...	...	133	177	44	0.011
6	...	Government Telegraph Department for Rent, Maintenance, and Inspection	...	...	...	...	...	...
6	...	CLEARING ACCOUNTS WITH OTHER LINES	...	...	...	...	...	...
7	...	UNCLASSIFIED EXPENDITURE	...	...	...	2522	2522	0.151
		Total	...	...	26894	41802	14908	2.496
		Less	...	...	...	...	...	...
		* Net Total	...	...	26894	41802	14908	2.496

TABLE C.—I.

Comparative Statement showing the weight and earnings of the principal commodities carried during the half-years ending *30th June* 1875, and *30th June* 1876

DESCRIPTION.	QUANTITY.		RECEIPTS.		Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	Half, 1875.	Half, 1876.	Half, 1875.	Half, 1876.				
	Tons.	Tons.	Rs.	Rs.	Tons.	Tons.	Rs.	Rs.
<i>Araca nuts</i>	1156	1297	4232	6064	141	-	1832	-
<i>Cloth</i>	971	2138	4808	14209	1167	-	9401	-
<i>Cotton</i>	2476	4223	-	2099	423	-	2099	-
<i>Curry stuff</i>	1524	4248	12594	26097	1772	-	13503	-
<i>Fruit and vegetables</i>	19101	1450	6140	5648	-	74	-	492
<i>Grain of all kinds</i>	6542	26259	42224	79231	7158	-	3700	-
<i>Granite stones</i>	508	5377	7823	6802	-	1165	-	1021
<i>Hides</i>	1043	760	2474	4343	252	-	1869	-
<i>Oil and lhee</i>	1085	1577	6106	10561	534	-	4455	-
<i>Oil - Cakes</i>	57432	2229	5866	11882	1144	-	6016	-
<i>Salt</i>	2871	6383	28219	29465	951	-	1246	-
<i>Seeds of all kinds</i>	11291	5700	13361	30300	2829	-	1690	-
<i>Spices</i>	429	13458	51968	79241	2167	-	2727	-
<i>Tobacco</i>	129	503	2282	2616	74	-	334	-
<i>Total</i>	54429	71802	188097	308558	17373	-	120461	-

TABLE C.

Statement showing in comparison the Goods Traffic of the half-years ending
30. June 1875, and 30. June 1876.

REFERENCE TO REVENUE ACCOUNT.	DETAILS.	TON MILES.				AVERAGE RATE PER TON PER MILE.		RECEIPTS.		AVERAGE MILEAGE.	
		1875.		1st Half, 1876.		1875.	1st Half, 1876.	1875.	1st Half, 1876.	1875.	1st Half, 1876.
Table and Main- head.	Sub- head.	Up.	Down.	Up.	Down.						
X (I) 1	MERCHANDISE, GENERAL—	Ton Miles		Ton Miles		Ton Miles		Ton Miles		Ton Miles	
	Special	283947	919962	629556	1515338	7.905	8.095	49569	90422	68.466	88.435
	1st Class	736829	1323665	1018798	2351800	12.008	11.715	128865	205666	57.522	72.309
	2nd "	158	1065			17.583		112		19.109	
	3rd "	122	187			19.200		31		19.312	
	4th "	5416	65578	23410	35002	23.964	22.404	8861	6816	83.326	95.134
2	5th "	1004	405	40	6078	42.379	51.531	311	1642	23.881	95.594
	TOTAL	1027476	2310862	1671804	3908218	10.798	10.479	167749	304556	61.371	77.992
3	MILITARY STORES	2245	535	1835	26204	24.034	27.404	348	4002	86.875	109.530
	RAILWAY, MATERIALS FOR CONSTRUCTION.	450525	48940	29421	90561	8.182	5.665	21284	11352	81.056	38.123
4	MINERALS—										
	For the Public										
5	" Company (Con- struction only.)										
	TOTAL GOODS	1480246	2366337	1467856	4024988	10.467	10.249	209381	319910	63.386	73.177
6	STORES CARRIED FREE FOR REVENUE.	78770	26559	11654	30390					57.556	32.181
	LIVE STOCK—										
7	1 Horses			5							109
	2 Cattle	147		332		14.997	20.334	278	769	3559	7261
8	3 Sheep, &c.	65		2019		45.995	35.803	126	204	526	1094
	MILITARY LIVE STOCK—										
9	1 Horses	10		10		16.251	19.198	32	33	378	217
	2 Cattle										
10	3 Sheep, &c.										
	RENTS AND DEMURAGE, WHARFAGE, &c.										
10	INTEREST ON OUTSTANDING BILLS.										
	MISCELLANEOUS										
TOTAL		210239320958				210239320958		210239320958		210239320958	
Less outstandings irrecoverable											
NET TOTAL		210239320958				210239320958		210239320958		210239320958	

TABLE C.—I.

Comparative Statement showing the weight and earnings of the principal commodities carried during the half-years ending *30th June* 1875, and *30th June* 1876

Description.	QUANTITY.		RECEIPTS.		Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	Half 1875.	Half 1876.	Half 1875.	Half 1876.				
	Tons.	Tons.	Rs.	Rs.	Tons.	Tons.	Rs.	Rs.
<i>Araca Pulv</i>	1156	1297	4232	6064	141	-	1832	-
<i>Cloth</i>	971	2138	4808	14209	1167	-	9401	-
<i>Cotton</i>	-	423	-	2099	423	-	2099	-
<i>Curry Stuff</i>	2476	4248	12594	28097	1772	-	13503	-
<i>Fruit and Vegetables</i>	1524	1430	6140	5648	-	74	-	492
<i>Grain of all kinds</i>	19101	26259	42224	79231	7158	-	37007	-
<i>Granite Stones</i>	6542	5377	7823	6802	-	1165	-	1021
<i>Hides</i>	308	760	2474	4343	252	-	1869	-
<i>Oil and Lhee</i>	1043	1577	5106	10561	534	-	4455	-
<i>Oil-Cakes</i>	1085	2229	5866	11882	1144	-	6016	-
<i>Salt</i>	8432	6383	28219	29465	951	-	1246	-
<i>Seeds of all kinds</i>	2871	5700	13361	30300	2829	-	16939	-
<i>Spices</i>	11291	13458	51968	79241	2167	-	27273	-
<i>Tobacco</i>	1129	503	2282	2616	74	-	334	-
<i>Total</i>	54429	71802	188097	308558	17373	-	120461	-

TABLE C.—I.

Comparative Statement showing the weight and earnings of the principal commodities carried during the half-years ending *30. June 1875*, and *30. June 1876*

DESCRIPTION.	QUANTITY.		RECEIPTS.		Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	1st Half 1875.	1st Half 1876.	1st Half 1875.	1st Half 1876.				
<i>Araca Nuts</i>	Tons. 1156	Tons. 1297	Rs. 4232	Rs. 6064	Tons. 141		Rs. 1832	
<i>Cloth</i>	971	2138	4808	14209	1167		9401	
<i>Cotton</i>	2476	423		2099	423		2099	
<i>Curry Stuff</i>		4248	12594	28097	1772		13503	
<i>Fruit and Vegetables</i>	1524	1450	6140	5648		74		492
<i>Grain of all kinds</i>	19101	26259	42224	79231	7158		3700	
<i>Granite Stones</i>	6542	5377	7823	6802		1165		1021
<i>Hides</i>	508	760	2474	4343	252		1869	
<i>Oil and Grease</i>	1043	1577	6106	10561	534		4455	
<i>Oil-Cakes</i>	1085	2229	5866	11882	1144		6016	
<i>Salt</i>	5432	6383	28219	29465	951		1246	
<i>Seeds of all kinds</i>	2871	5700	13361	30300	2829		1690	
<i>Spices</i>	11291	13458	51968	79241	2167		2727	
<i>Tobacco</i>	429	503	2282	2616	74		334	
<i>Total</i>	54429	71802	188097	308558	17373		120461	

TABLE E.

Maintenance of Way, Works, and Stations.

REFERENCE TO REVENUE ACCOUNT.		1875.		1876.		HALF OF 1876		Per mile of line maintained.	Per mile of track, including sidings.	Per train mile.	Per 1,000 ton miles.
Table and Main head.	Sub- head.	Total.	Decrease.	Total.	Increase.	Decrease.					
IX. (A.)	...	185		183.186	-	1.814		30.125	27.844	0.330	0.131
XIV. (L.)	Mileage of line maintained (D-8, 1875-76)	200.375		198.210	-	2.165		103.760	95.903	1.135	0.453
	Mileage of single track, including sidings (D-8, 1875-76)	154.593		267.969				20.171	18.622	0.221	0.088
	Train mileage (D-1, 1875-76)	263.335		419.632				13.058	12.068	0.143	0.057
	Ton mileage (D-1, 1875-76)										
DETAILS.											
IX. (A.)	...	1875		1876		HALF OF 1876		Rs.	Rs.	Rs.	Rs.
1 & 2	GENERAL SUPERINTENDENCE—										
	Engineers' salaries and allowances	5464		5519		55					
	Subordinate Superintendents' salaries and allowances, including overtime	4090		4095		5					
3 to 5	Office expenses	2269		2392		123					
6	MAINTENANCE AND RENEWAL OF PERMANENT-WAY—										
1	Wages	17152		19009				143			
	Materials	816		879							
2	REPAIRS OF BRIDGES, &c.—WAGES AND MATERIALS—										
3	Bridges and Tunnels	289		753		464					
	Miscellaneous	1251		471				780			
4	REPAIRS OF STATIONS AND BUILDINGS—WAGES AND MATERIALS—										
	Repairs of all except Staff quarters	2916		1574				1342			
5	.. of Staff quarters	273		125				148			
6	MAINTENANCE BY CONTRACT—										
	Amount paid to Contractors										
7	Materials supplied by the Company										
8	NEW MINOR WORKS										
	UNCLASSIFIED EXPENDITURE—										
	Plantations										
9	Tools and Plant	366		639		273					
	Loss on Stores, &c.	168		978		810					
10	Total	39054		40200		3559		2413	219.449	202.815	2.401
	Less			6301				6331	34.561	31.941	0.378
11	Net Total	39054		33869				5185	184.888	170.874	2.023

IF DONE DEPARTMENTALLY.

TABLE D.

Statement of Mileage maintained by Revenue.

REFERENCE TO REVENUE ACCOUNT.	DETAILS.	1st. HALF OF 1875.				1st. HALF OF 1876.			
		Departmentally.	By Contract.	Total.	Departmentally.	By Contract.	Total.	Total Increase.	Total Decrease.
		Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
IX. (A.) ...	1. Mean miles of line main- tained by ...	185,000	-	185,000	183,186	-	183,186	-	1,814
	2. } Double ...	-	-	-	-	-	-	-	-
	3. } Total ...	185,000	-	185,000	183,186	-	183,186	-	1,814
...	4. Mean miles of sidings main- tained ...	15,375	-	15,375	15,024	-	15,024	-	0,351
	Total ...	200,375	-	200,375	198,210	-	198,210	-	2,165
	5. Mean miles of single track including sidings ...	200,375	-	200,375	198,210	-	198,210	-	2,165

TABLE D.—I.

Statement of Train Mileage.

DETAILS.	TRAIN MILES RUN.				HOURS OF		
	Traffic Department.	Locomotive Department.	Maintenance Department.	Total.	Assisting Engines.	Shunting, Piloting, &c.	Miscellaneous Services.
	XIV. 1.	XIV. 2.	XIV. 3.	XIV. 4.	XIV. 5.	XIV. 6.	XIV. 7.
1 41- Half, 1875... (Passenger ... Goods ... Mixed ... Total ...	154,593	626	3,542	158,761	9.15	7,338.58	1,594.15
2 46- Half, 1876... (Passenger ... Goods ... Mixed ... Total ...	267,969	1,205	2,116	271,290	28.26	12,688.2	2,415.33
3 Increase in 1876... (Passenger ... Goods ... Mixed ... Total ...	113,376	579	-	113,955	19.11	5,349.4	821.18
4 Decrease in 1875... (Passenger ... Goods ... Mixed ... Total ...	-	-	1,426	-	-	-	-
* Passenger train miles.							

*. Passenger train mileage
Proportion of mixed train mileage due to Passengers 42.158
Total 12,158

Goods train mileage
Proportion of mixed train mileage due to Goods 1,581.1

21

3

Locomotive Department Expenses.

FUEL CONSUMED (FROM ABSTRACT B OF REVENUE ACCOUNT).									
		Coal.	Coke.	Patent fuel.	Wood.	Average consumption per train mile.		Average consumption per 1,000 ton miles.	
						Coal, coke and patent fuel.	Wood.	Coal, coke and patent fuel.	Wood.
		Tons.	Tons.	Tons.	Tons.	lbs.	lbs.	lbs.	lbs.
Quantity consumed during the 1 st half of 1875 ...		1990	4	- - -	2433	28.892	35.254	169.618	206.962
" " 1 st " of 1876 ...		4220	- -	- - -	1085	35.276	9.070	225.264	57.917
Increase in 1876 ...		2230	- - -	- - -	- - -	6.384	- - -	55.646	- - -
Decrease in 1876 ...		- - -	4	- - -	1348	- - -	26.184	- - -	149.045

TABLE G.—II.

Distribution of Vehicle Mileage according to the Traffic carried.

Description of Vehicles.	Mileage run.	REMARKS.
Coaching—		
First-class	171929	
Second "	190594	
Third "	2019325	
Fourth "	- - -	
Carriage trucks	6113	
Horse boxes	39054	
Luggage vans	127442	
Post Office vehicles	107809	
Total (paying vehicle mileage)	2662266	
Passenger brake-vans	73503	
Total, including brakes	2735769	miles includes 17127 of empty vehicles
Goods—		
Goods vehicles	2396649	
Cattle vans	16743	
Mineral trucks	- - -	
Total (paying vehicle mileage)	2413392	
Goods brake-vans	7773	
Total, including brakes	2421165	miles includes 630371 of empty vehicles
Miscellaneous—		
(For stores and materials carried free on Revenue Account.)		
For Locomotive Department (in entire train loads) ...	29597	Ton mileage of stores and materials carried
" Engineering "	5524	132228
" Stores carried free in ordinary Traffic trains Dep't ...	6171	11607
Brake-vans	397	3102
Total, including brakes ...	41689	NIL
Grand Total ...	5198623	146937

Repairs and working of Vehicles.

[illegible]

Cowd Spot horses
High school &c
New horse buyers
Cattle Brand
Cowd Brand
Sinker trucks
Coke barges
Good make ones

Open. Goods too and
Cotton. Linen
Dresses. Shawls
Sundries Linen
Bleach Linen
Salt-Bran
Goods made from
Woolen and Linen
Woolen Linen

~~Cause 3' - 6"~~
Cause 3' - 6"
~~steep~~ steep
valleys
overlaid
compacted
second
third
successive

27th
 Good spots for
 high school &
 New spots for riders
 cattle band
 Covered band
 Drilled trucks
 Cotte Tanager
 Good make out

(e)	231394	Indivisore	—
(f)	1640		—
(g)	5185		—
(h)	197		—

(C) 231394 Under new work third class Passenger's (i) 30238 Under new work for 4 years; loco: "Haffner" Reg
1840 — A — — — — —

(g)	5185	~~D~~	Trit. thuridulae Thunberg
(h)	197	~~D~~	Carricifera

Bohler 17

3rd.
 ---55401-40.0.505 0.918--54.95¹²/₁₆₄₅₃₆₈ 11843 65

3rd.
 ---55-40-1-40.0.505 0.918--54.495^{12/16} 45368 11843 65

[illegible]

(a) 203	Boiler of the motor for food traffic	C. 1005	Boiler for engine for locomotive for food traffic
(a) 1 522	Boiler for engine for locomotive for food traffic	D 1662	Boiler for engine for locomotive for food traffic
(3) 2082	Boiler for engine for locomotive for food traffic		Boiler for engine for locomotive for food traffic

TABLE G.

Carriage and Wagon Expenses.

REFERENCE TO REVENUE ACCOUNT.		1 st HALF 1874		2 nd HALF OF 1876		Cost per 1,000 vehicle miles.
Table and Main- head.	Sub- head.	Total.	Total.	Increase.	Decrease.	
XIV-1	...	...	...	...	...	
	Train mileage (D-I. 2, page 7) ...	...	154,593	267,969	113,376	
	(Coaching (M-I. 9 a, page 18) ...	...	109,223	266,226	156,903	
	Vehicle mileage. { Goods (M-I. 16 a, page 18) ...	...	142,315	241,392	99,077	
	Total ...	...	251,637	507,568	255,931	
	DETAILS.		1 st HALF 1875	2 nd HALF OF 1876		
			Total.	Total.	Increase.	Decrease.
	GENERAL SUPERINTENDENCE—		Rs.	Rs.	Rs.	Rs.
1 and 2	Salaries of Superintendents, including allowances ...	...	1102	719	383	0.043
3 to 5	Ditto of Subordinate ditto, including ditto ...	...	1074	861	213	0.051
6	Office expenses ...	...	726	591	135	0.035
	REPAIRS AND RENTALS OF VEHICLES AND MACHINERY—					
1 to 3	Coaching vehicles { Wages, including overtime ...	...	886	2133	1247	0.127
	Materials ...	...	1476	2952	1476	0.176
1 to 3	Goods vehicles. { Wages, including overtime ...	...	2217	2898	681	0.173
	Materials ...	...	3925	4918	993	0.294
	CLEANING AND OILING—					
1	Labor, including wages of oilers, &c. ...	...	1419	3312	1893	0.198
2	Stores ...	...	1454	1769	315	0.106
	UNCLASSIFIED EXPENDITURE ...	...	...	135888	135888	8.114
	Total ...	...	14279	156041	142493	9.317
	Less ...	...	31	12	19	0.002
	Net Total ...	...	14248	156029	141781	9.317
						30.741

a Per 1000 Coaching Vehicle Miles
7 Per 1000 Goods Vehicle Miles

TABLE F.—I.

Locomotive Power.

REFERENCE TO REVENUE ACCOUNT.	Table and Main- head.	Sub- head.	Broad Gauge					Narrow Gauge		Total
			Passenger.	Goods. Passenger.	Goods.	Tank.	Passenger. Goods.	Passenger. Goods.	Tank.	
XII.	5	Locomotives ... (1.—Wheels coupled ... 2.—Weight on driving axle ... 3.—Total weight in steam, exclusive of tender ...)	4	6	4	4	6	4	4	8
			tons. 9.00	tons. 10.50	tons. 8.00	tons. 8.00	tons. 8.00	tons. 8.00	tons. 8.00	tons. 31.50
			23.50	29.50	28.00	15.00	18.00	14.15	14.15	68.32
II	5	1.—Number of Locomotives erected and made over to Locomotive Department ...	6	2	2	2	2	62	4	82
		2.—Average number of Locomotives constantly under repairs and renewals ...	1.222	1.000	0.510	0.300	3.450	—	0.350	6.832
		3.—Number of Locomotives laid by as spare or hired out to other lines ...	—	—	—	—	8	4	—	12
		4.—Average number of Locomotives at work [1—(2+3)]	4.778	1.000	1.490	1.700	50.550	—	3.650	63.168
		5.—Train miles hauled by each class of Locomotives at work (4) ...	354.62	116.31	220.79	—	177.409	—	7.181	253.762
		6.—Average train miles hauled by each Locomotive at work (4) ...	74.22	116.31	14.818	—	35.10	—	19.67	401.7
		Per half-year ...	41	64	81	—	19	—	11	22
		7.—Weight of coal, &c., used per train mile ...	40.15	50.22	40.08	—	29.32	—	67.35	119.58
		8.—Weight of wood used per train mile ...	—	—	—	—	—	—	—	—
		9.—Average gross weight of the trains hauled by each class of Locomotives ...	—	—	—	—	—	—	—	—
		10.—Average speed between stations ...	24	—	21	20	20	4	4	35
		11.—Average through speed ...	19	—	16	17	14	—	—	—

* (17528 miles) the mileage of 9 Locomotives sold to the Punjab Government State Railway has been deducted from the total, which therefore does not agree with the total train mileage shown in Form XIV of Revenue Account.

TABLE K.

Steam Boat Service.

REFERENCE TO REVENUE ACCOUNT.								1 st HALF, 1875		1 st HALF OF 1876		
Table and Main- head.	Sub- head.	DETAILS.						Total.	Total.	Increase.	Decrease.	
								Rs.	Rs.	Rs.	Rs.	
IX (3)	...	WORKING VESSELS—										
	1 {	1	Salaries and allowances of Officers and Crews				...	...				
		2	Loading and unloading vessels				...	...				
		3	Pilotage fees				...	...				
		4	Contingencies				...	...				
	2 {	1	REPAIRS—									
		2	Wages				...	...				
			Materials				...	...				
	3 {	1	FUEL—									
		2	Fuelling Establishment and Fuelling vessels				...	...				
		3	Coal				...	...				
		4	Coke				...	...				
		5	Patent fuel				...	...				
	4	...	MISCELLANEOUS STORES				...	...				
	5	1 & 2	STEAM TRAFFIC AGENCIES				...	...				
6	1 to 4	MISCELLANEOUS EXPENDITURE				...	...					
7	...	CONTRIBUTION TO FLOTILLA RESERVE FUND				...	...					
	</											

TABLE L.

Special and Miscellaneous Expenditure.

REFERENCE TO REVENUE ACCOUNT.		DETAILS.	1 st HALF, 1875	1 st HALF OF 1876		
Table and Main- head.	Sub- head.		Total.	Total.	Increase.	Decrease.
			Rs.	Rs.	Rs.	Rs.
IX (G) 1	...	LAW CHARGES	16	16		
2	1	COMPENSATION			6	
	2	For goods lost or damaged				669
	3	" personal injury		4		
		" other claims				
3	...	RATES AND TAXES	1343	6		
4	...	INTEREST ON REVENUE BALANCES				
5	1	Payments to other lines		89	330	
	2	Contribution to Branch Fund				
	3	Fire Insurance Fund		89	4289	
	4	Permanent and Renewal Fund				
		Rent of stations jointly occupied		484	5178	672
		Total ...	9178	130		
		Less		84	4506	
		Net Total ...	9178	130		
			Accounts 5			

In accordance with Table H as per revised form of

ANALYSIS OF CARRYING COST.

TABLE M.—I.

Definitions.		Approximate weight of units to be adopted in these calculations—	
The unit of passenger traffic	is 1 passenger, plus free luggage.	Coaching—	Cwt. Tons.
" of carriages	is 1 carriage.	A 1st class passenger with free luggage...	1.75 or .0875
" of horses	is 1 horse.	A 2nd class do. do.	1.75 or .0875
" of luggage	is 1 ton.	A 3rd class do. do.	1.25 or .0625
" of Post Office vehicles	is 1 "	A 4th class do. do.	1.25 or .0625
" of goods	is 1 "	A carriage (average for two and four-wheeled)	6.75 or .3375
" of cattle	is 1 "		

Data for calculating the incidence of carrying cost per unit per mile for each class of Passenger Traffic, and for Goods, Cattle, and Minerals.

DETAILS.	Total Mileage of each description of rolling stock.	Total mileage of units.	AVERAGE CONTENTS IN UNITS OF EACH VEHICLE.		Average weight of rolling stock in Tons.	Total average weight, including contents of each vehicle in Tons.	Proportion per cent. of freight to total weight.	TON MILEAGE		TOTAL TON MILEAGE.	
			No.	Weight in Tons.				of freight.	of dead weight.	Excluding engines and tenders and brake-vans	Including engines and tenders and brake-vans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(k)	(l)	(m)
COACHING—											
1 1st class	171,927	213,785	1,273	0.111	5.431	5.542	2.009	17,144	933,747	952,891	Nil
2 2nd "	190,594	116,215	6,098	0.534	5.591	6.125	8.710	101,590	1,065,511	1,167,201	Nil
3 3rd "	219,225	79,474	23,744	1.484	4.682	6.166	24.068	299,671	945,479	1,245,150	Nil
4 4th "	—	—	—	—	—	—	—	—	—	—	Nil
5 Carriage trucks	6,113	11,617	1,900	0.541	4.414	5.055	12.608	3,921	26,983	32,904	Nil
6 Horse-boxes	3,905	3,355	0.859	0.376	5.526	5.902	6.369	14,681	215,812	230,493	Nil
7 Luggage vans	12,742	53,623	Nil	0.421	5.635	6.056	6.948	53,623	718,136	771,759	Nil
8 Post Office vehicles	107,800	—	Nil	0.400	5.200	5.600	7.965	45,514	550,507	609,121	Nil
9 Total	266,224	Nil	Nil	Nil	Nil	Nil	Nil	323,828	12,753,75	16,213,659	Nil
10 Passenger engines and tenders	142,158	Nil	Nil	Nil	33.738	Nil	Nil	Nil	4,795,784	Nil	Nil
11 " Brake-vans	7,353	Nil	Nil	Nil	5.365	Nil	Nil	Nil	394,344	Nil	Nil
12 Total coaching, ton mileage	Nil	Nil	Nil	Nil	Nil	Nil	Nil	323,828	18,165,503	Nil	14,037,87
Goods—											
13 Goods vehicles	239,649	39,922	Nil	2.500	1.094	6.594	37.913	5,992,841	9,811,880	15,804,721	Nil
14 Cattle vans	16,743	8,581	Nil	0.518	3.825	4.343	11.938	8,581	64,042	72,723	Nil
15 Mineral trucks	—	—	Nil	—	—	—	—	—	—	—	Nil
16 Total	241,232	Nil	Nil	Nil	Nil	Nil	Nil	6,001,522	9,875,922	15,877,444	Nil
17 Goods engines and tenders	2,581	Nil	Nil	Nil	33.738	Nil	Nil	Nil	4,244,351	Nil	Nil
18 " Brake-vans	—	Nil	Nil	Nil	5.365	Nil	Nil	Nil	3,177	Nil	Nil
19 Total goods, ton mileage	241,232	Nil	Nil	Nil	Nil	Nil	Nil	6,001,522	14,157,605	Nil	14,157,605
MISCELLANEOUS (FOR REVENUE ACCOUNT)											
20 For Traffic Department	6,471	5,105	Nil	0.500	2.377	1.882	10.525	3,102	27,023	30,125	Nil
21 " Maintenance	13,228	11,607	Nil	0.438	3.570	8.038	55.881	13,228	105,651	237,889	Nil
22 Total	19,700	16,712	Nil	0.938	5.947	9.920	66.406	16,330	132,674	268,014	Nil
23 Engines and tenders	3,321	Nil	Nil	Nil	32.358	Nil	Nil	Nil	10,646	Nil	Nil
24 Brake-vans	397	Nil	Nil	Nil	4.128	Nil	Nil	Nil	1,638	Nil	Nil
25 For stores carried free on ordinary trains	6,777	3,102	Nil	0.600	—	—	—	—	—	—	Nil
26 Total Miscellaneous, ton mileage	Nil	Nil	Nil	Nil	Nil	Nil	Nil	14,693	25,699	Nil	40,393
27 Total ton mileage	Nil	Nil	Nil	Nil	Nil	Nil	Nil	9,386,743	32,576,556	Nil	41,963,299

* Assumed weight

TABLE M.—II.

Division between *Coaching* and Goods of the Expenditure of Dept.

Maintenance expenses (Statement No. VIII. of the Revenue Account)	...	...	...
Reduced by amount credited for sale of Revenue stores (Abstract K of Revenue Account)	129	...	...
<i>Rent of - Rents of Dwelling-houses</i>	1658	...	...

Net Amount ... 280,630

Locomotive expenses (Statement No. VIII. of the Revenue Account)

Reduced by credit for hire of Locomotives	...	...	21,549
" " for haulage of foreign trains	...	...	...
" " for sale of Locomotive stores	...	...	200
" " for profits of Workshops	...	...	...

Net Amount ... 21,749

Carriage and Wagon Expenses (Statement VIII. of the Revenue Account)

Traffic Expenses — ditto ditto
Reduced by mileage of vehicles over foreign lines 6,781

Net Amount ... 41,802

General Charges.

Reduced by Telegraph Receipts 6,840
Do — Fees on Plate Transfers 287

Net Amount ... 7,127

Special & Miscellaneous Expenses

Reduced by G. of unclaimed & damaged goods 79

Net Amount ... 13,605

Division of Expenses.

	Maintenance.	Locomotive.	Carriage and Wagon.	Traffic.	General Charges.	Special and Miscellaneous.	Total.
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Due to coaching	16,523	137,337	80,158	33,690	18,395	7,217	293,320
to goods	15,559	121,544	75,871	30,541	16,280	6,388	266,183
	5	5	5	5	5	5	5

112

TABLE M.—III.

Distribu

ed cost of carrying the vehicles of each class, including freight.

DETAILS.	COACHING.										GOODS.			
	First class.	Second class.	Third class.	Fourth class.	Carriage trucks.	Horse boxes.	Luggage vans.	Post Office vehicles.	Total.		Goods vehicles.	Cattle vans.	Mineral trucks.	Total.
Maintenance ...	Rs. 971	Rs. 1190	Rs. 12689	Rs. --	Rs. 31	Rs. 235	Rs. 786	Rs. 621	Rs. 16523	Rs. 15488	Rs. 71	Rs. --	Rs. --	Rs. 15559
Locomotive ...	(b) 8971	9888	10067	--	262	1452	6537	5150	137337	20987	557	--	--	121544
Carriage and Wagon ...	(c) 5177	5738	69900	--	184	1176	3837	3246	50158	75345	526	--	--	75871
Traffic ...	(d) 2175	2412	25554	--	77	494	1613	1364	33690	30329	212	--	--	30841
General ...	(e) 1188	1317	13953	--	42	270	880	745	18395	18167	113	--	--	16230
Special and Miscellaneous ...	(f) 466	517	5474	--	17	106	345	292	7217	6344	44	--	--	6332

TABLE M.—IV.

Classified cost of work

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

DETAILS.	COACHING.								GOODS.		
	First class.	Second class.	Third class.	Fourth class.	Carriage trucks.	Horse boxes.	Luggage vans.	Post Office vehicles.	Goods vehicles.	Cattle vans.	Mineral trucks.
Maintenance ...	Pies. 1035	Pies. 1193	Pies. 1207	Pies. --	Pies. 0.974	Pies. 1.155	Pies. 1.134	Pies. 1.106	Pies. 1.241	Pies. 0.814	Pies. --
Locomotive ...	75013	9251	10000	--	3.229	4.597	1.243	1.175	1.112	5.387	--
Carriage and Wagon ...	5781	5780	5730	--	5779	5781	5781	5781	5005	6.032	--
Traffic ...	2.430	2.430	2.430	--	2.418	2.429	2.430	2.429	2.430	2.431	--
General ...	1.327	1.327	1.327	--	1.319	1.327	1.326	1.327	1.295	1.246	--
Special and Miscellaneous ...	0.520	0.521	0.523	--	0.534	0.521	0.520	0.520	0.508	0.505	--
Total	20.156	21.217	21.292	--	19.253	20.810	21.089	20.353	21.202	17.457	--
Cost per unit	15.833	3.479	0.897	--	10.133	24.225	50.093	45.229	8.481	33.71	--

Statement showing in

TABLE M.—V.

Comparison the receipts and the carrying cost per vehicle per mile and per unit per mile of Coaching and Merchandize Traffic.

	Carrying	Profit per unit per	Loss per unit per	Average receipt per	Carrying cost per unit per	Loss per unit per	Proportion per cent. of profit to
2nd ...	21.292	28.282	3.015	2.985	3.479	1.774	57.040
3rd ...	19.253	24.436	--	2.088	0.897	6.294	55.924
4th ...	17.455	22.990	7.148	22.990	10.133	12.857	25.921
Carriages ...	20.810	15.900	--	48.546	50.093	18.453	8.325
Horses ...	21.089	7.753	--	--	--	--	--
Luggage, including parcels and dogs ...	--	--	--	--	--	--	--
Post Office vehicles	--	--	--	--	--	--	--
Goods—	--	--	--	--	--	--	--
Merchandize, including Government stores and Railway materials	21.202	4.427	--	10.249	8.481	1.768	17.250
Cattle	17.455	5.745	--	22.604	33.716	--	--
Minerals	--	--	--	--	--	--	--

MADRAS,

12th February 1877.

Q. Laribert, Major, R.E.
Examiner Railway Accounts,
Madras

REVIEW

OF THE

REVENUE ACCOUNT

OF THE

SOUTH INDIAN RAILWAY,

FOR THE

HALF YEAR ENDED 30th JUNE 1876.

MADRAS:

PRINTED BY E. KEYS, AT THE GOVERNMENT PRESS.

1877.

REVIEW OF THE REVENUE ACCOUNT OF THE SOUTH INDIAN RAILWAY FOR THE HALF-YEAR ENDED 30TH JUNE 1876.

TABLE A.

General Statement of working of Half-year ending 30th June 1876.

I.—Description of Railway worked.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Gauge of Railway.	Length sanctioned.	OPEN MILEAGE AT THE END OF THE HALF-YEAR.				Mean Mileage worked.	Number of Stations open at the end of the half-year.	Average distance between Stations.	TOTAL LENGTH OF THE FOLLOWING GRADIENTS:—			STEEPEST GRADIENT WORKED BY			
		Single.	Double.	Total.	Sidings.				$\frac{1}{100}$ and less.	$\frac{1}{101}$ to $\frac{1}{200}$	$\frac{1}{201}$ to $\frac{1}{300}$	Fixed power..		Locomotives.	
												Length.	Inclina- tion.	Length.	Inclina- tion.
FT. IN.	MILES.	M. CHS.	MILES.	MILES.	MS.	MILES.	NO.	M. CHS.	M. CHS.	M. CHS.	M. CHS.	MS.		M. CHS.	
3 3½°	617	397 57	..	397-57	28	397-57	46	9 3	9 55	55 32	53 44	..	..	9 55	1 in 100

II.—Financial Results.

17	18	19	20	21	22	23	24	25	26
Total Capital authorized to be raised.	Total Capital paid up to end of half-year.	Total Capital withdrawn to end of half-year.	Total Capital expended on open mileage, inclusive of Rolling Stock.	Cost per mile open.	Earnings.	Expenses.	Profits.	Percentage of profits on paid up Capital.	Percentage of profits on Capital expended on open mileage, inclusive of Rolling Stock.
£	£	£	£	£	RS.	RS.	RS.		
2,702,155	2,659,505	2,507,480	2,440,359	6,138	8,40,034	5,97,026	2,43,008	0-898	1-347

III.—Summary of General Results.

27	28	29	30	31	32	33	34	35	36	37
	COACHING.			Goods.			TOTAL INCLUDING SUNDRIES, BUT EXCLUDING STEAMBOAT.			Total, including Sundries and Steamboat.
	Total.	Per Passenger train mile.	Per mean mile open per Week.	Total.	Per goods train mile.	Per mean mile open per Week.	Total.	Per total train mile.	Per mean mile open per Week.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Earnings	6,75,963	4-052	55-720	3,20,958	2-551	31-050	9,40,034	3-508	90-940	9,40,034
Expenses	2,93,320	2-063	28-376	2,66,183	2-116	25-751	5,97,026	2-228	57-757	5,97,026
Profits	2,82,643	1-989	27-344	54,775	0-435	5-299	3,43,008	1-280	33-183	3,43,008
Percentage of expenses to earnings.	50-927	..	..	82-934	..	..	63-511	..	..	63-511

* The section from Erode to Trichinopoly during this half-year was still the broad gauge, and from Arconum to Conjeveram on 3 feet 6 inches gauge, the rest of the line on metre gauge 3 feet 3½ inches.

IV.—Traffic Earnings.

38	39	40	41	42	43
Description.	PASSENGERS OR TONS OF GOODS CARRIED.		EARNINGS.		Percentage of Total Earnings contributed by each description of Traffic.
	Number.	Per cent. of Total Number and Total Tonnage.	Amount.	Per cent. of Total Earnings from Coaching and Goods.	
Coaching					
Passengers	1st-Class ..	3,564	8,986	1,560	
	2nd " ..	30,758	18,069	3,137	
	3rd " ..	1,311,305	5,21,386	90,524	
	4th " ..				
Miscellaneous			27,522	4,779	61.27
Total	1,345,627	100	5,75,963	100	
Less outstandings irrecoverable					
Net Total			5,75,963		
Goods					
General Merchandise	Special 1st-Class ..	24,254	29,616	28,175	
	2nd " ..	46,614	56,919	64,079	
	3rd " ..				
	4th " ..	614	0,750	2,124	
	5th " ..	64	0,078	0,512	
Military Stores		256	4,002	1,247	
Railway Materials		10,093	11,352	3,537	34.144
Minerals			1,048	0,326	
Miscellaneous					
Total	81,895	100	3,20,958	100	
Less outstandings irrecoverable					
Net Total			3,20,958		
Sundries, including Electric Telegraph			43,113		4.586
Steamboat Traffic			9,40,034		100
Total, Railway Earnings			9,40,034		
Total, including Steamboat			9,40,034		

V.—Working Expenses.

44	45	46	47	48	49	50	51	52	53
	Mainten- ance.	Locomotive	Carriage and Wagon.	Traffic.	General.	Special and Miscel- laneous.	Total Rail- way expen- diture.	Steamboat expenses.	Total, in- cluding Steamboat.
Amount ..	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Percentage of Expenses of each Department ..	33,869	2,80,630	1,56,029	71,012	41,802	13,684	5,97,026		5,97,026
	5.673	47.005	26.134	11.894	7.002	2.292	100.000		

VI.—Haulage and Working.

54	55	56	57	58	59	60	61	62	63	64	65	66
TRAIN MILEAGE.			VEHICLE MILEAGE (EXCLUSIVE OF BRAKE-VANS).				GROSS TON MILEAGE (FREIGHT AND DEAD WEIGHT).					
Traffic.	Miscel- laneous.	Total.	Run for public traffic.			Miscel- laneous.	Total, in- cluding Miscella- neous.	For public traffic.			Miscel- laneous (for Re- venue purpo- ses).	Total, in- cluding Miscella- neous.
			Coaching.	Goods.	Total.			Coaching.	Goods.	Total.		
267,969	3,321	271,290	2,662,266	2,413,392	5,075,658	35,121	5,110,779	21,403,787	20,155,579	41,559,366	403,933	41,963,299

VII.—Average Composition and Weight of Trains.

VII.—Average

67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
Nature of Trains.	COMPOSITION.													WEIGHT.		
	Coaching Vehicles.									Goods Vehicles.				Freight or Live Load.	Dead load, exclusive of Engines and Tenders and Brakes.	Total.
	1st-Class.	2nd-Class.	3rd-Class.	4th-Class.	Carriage trucks.	Horse Boxes.	Luggage Vans.	Post Office Vehicles.	Brake-vans.	Goods Vehicles.	Cattle Vans.	Mineral Trucks.	Brake-vans.			
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	TONS.	TONS.	TONS.
Passenger ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goods ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mixed ..	0.642	0.711	7.536	..	0.023	0.146	0.476	0.402	0.274	8.944	0.062	..	0.029	34.477	85.281	119.758

Train (including brakes) 19.245.

* Total number of Vehicles in Train (including brakes) 19,245.

VIII.—Average Loads of Vehicles.

84	85	86	87	88	89	90
Details.	Average carrying capacity.	Average Contents of each Vehicle.	AVERAGE WEIGHT.			Proportion per cent. of Freight to Dead Weight.
			Of each Vehicle.	Of Freight.	Total.	
	No.	No.	TONS.	TONS.	TONS.	
COACHING—						
1st-Class	16,853	1,273	5,431	0,111	5,542	2,044
2nd " ..	34,986	6,098	5,591	0,534	5,125	9,551
3rd " ..	40,773	23,744	4,682	1,484	6,166	31,696
4th " ..	1,500	1,900	4,414	0,641	5,055	14,522
Carriage trucks						
Horse box	2,429	0,859	5,526	0,376	5,902	6,804
Luggage vans	5,087	0,421	5,635	0,421	6,056	7,471
Post Office vehicles	..	0,450	5,200	0,450	5,650	8,654
Goods—						
Goods vehicles	6,259	2,500	4,094	2,500	6,594	61,065
Cattle vans	5,791	0,518	3,825	0,518	4,343	13,542
Mineral trucks	..	..	..	..	..	..

* Assumed.

TABLE B.

Statement showing in comparison the Coaching Traffic of the half-years ending 30th June 1875 and 30th June 1876.

Details.	NUMBER.		AVERAGE FARE PER UNIT PER MILE.		RECEIPTS.		AVERAGE MILEAGE.		TOTAL UNIT MILEAGE.	
	1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.
1st-CLASS PASSENGERS—			PIRS.	PIRS.	RS.	RS.				
Single journey ..	1,125	3,562	11-987	8-080	3,659	8,572	52-117	57-156	55,696	203,698
Excess fares ..	284	..	6-263	..	91	407	..	..	1,974	14,918
Return journey ..	3	2	11-907	7-814	207	..	22-345	..	6,346	..
Troops and Police ..	..	..	..	..	16	..	86-000	56-000	258	172
Total ..	1,412	3,564	11-354	7-886	3,973	8,986	47-597	61-358	67,184	218,788
Season ticket passengers ..	..	..	..	..	..	..	..	..	..	..
2ND-CLASS—										
Single journey ..	6,773	30,248	5-081	3-145	6,013	17,199	33-550	34-714	227,232	1,050,021
Excess fares ..	808	..	3-627	..	349	553	..	..	20,658	85,630
Return journey ..	135	270	5-091	3-074	455	..	29-576	..	25,672	..
Troops and Police ..	..	..	..	..	238	267	66-736	61-767	8,976	16,677
Total ..	7,776	30,518	4-815	3-002	7,085	18,019	36-337	37-759	282,539	1,152,328
Season ticket passengers ..	120	240	0-975	0-976	25	50	41-000	41-000	4,920	9,840
3RD-CLASS—										
Single journey ..	717,909	1,299,313	2-058	2-087	2,21,782	5,14,199	28-819	36-412	20,689,652	47,310,380
Excess fares ..	18,506	6,816	2-508	2-038	513	1,627	..	..	47,946	161,115
Return journey ..	3,415	5,176	1-882	2-056	5,217	2,101	21-860	22-437	300,462	152,928
Troops and Police ..	..	..	..	..	2,188	3,459	65-852	62-399	223,144	322,979
Total ..	739,830	1,311,305	2-065	2-088	2,29,700	5,21,386	28-872	36-565	21,360,204	47,947,405
Season ticket passengers ..	..	..	..	..	..	..	..	..	..	..
4TH-CLASS—										
Single journey ..	..	..	..	..	..	..	..	..	..	..
Excess fares ..	..	..	..	..	..	..	..	..	..	..
Return journey ..	..	..	..	..	..	..	..	..	..	..
Troops and Police ..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..
Season ticket passengers ..	..	..	..	..	..	..	..	..	..	..
TOTAL—										
Single journey ..	725,807	1,333,123	..	..	2,31,454	5,39,970	28-900	36-429	20,975,490	48,564,099
Excess fares ..	19,658	6,816	..	..	953	2,587	..	..	70,578	261,666
Return journey ..	3,553	5,448	..	..	5,908	2,101	21-949	22-437	431,480	152,928
Troops and Police ..	..	..	..	..	3,015	3,733	65-422	62-377	232,378	339,828
Total ..	749,018	1,345,387	..	..	2,41,330	5,48,391	28-984	36-688	21,709,928	49,318,521
Season ticket passengers ..	120	240	..	..	25	50	41-000	41-000	4,920	9,840
PASSENGERS' LUGGAGE ..	Ton miles.	Ton miles.	..	..	..	..	..	..	..	..
MILITARY BAGGAGE ..	7,466	15,884	58-891	53-234	2,290	4,409	..	..	..	..
PUBLIC ..	339	551	26-764	26-134	46	75	..	..	..	..
MILITARY ..	98	121	26-527	22-990	971	1,391	..	..	7,028	11,617
Carriages ..	280	338	12-145	15-890	1,464	2,770	..	..	23,143	33,479
Horses ..	425	876	2-361	2-246	302	728	..	..	24,557	62,221
Parcels ..	3	1	..	..	..	..	..	..	..	..
SPECIAL TRAINS ..	18,073	36,553	..	..	..	..	..	..	..	..
MISCELLANEOUS ..	363	849	..	..	..	..	..	..	..	..
Post Office—										
Haulage and hire of Post Office Vehicles ..	No.	No.	..	..	1,900	4,060	..	..	..	..
Special Trains ..	Train miles.	Train miles.	..	..	12	46	..	..	..	..
Parcels ..	Ton miles.	Ton miles.	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..
Less outstandings irrecoverable ..	..	..	..	..	..	..	..	..	..	..
Net Total ..	..	..	..	..	..	..	..	..	..	..

* The assumed weight for Post Office Vehicles has been increased from 0-150 to 0-450 of a ton for this half-year.

TABLE C.

Statement showing in comparison the Goods Traffic of the half-years ending 30th June 1875 and 30th June 1876.

Details.	TON MILES.				AVERAGE RATE PER TON PER MILE.		RECEIPTS.		AVERAGE MILEAGE.	
	1st-half, 1875.		1st-half, 1876.		1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.
	Up.	Down.	Up.	Down.	PIRS.	PIRS.	RS.	RS.		
MERCHANDISE, GENERAL—	TON MILES.	TON MILES.	TON MILES.	TON MILES.	PIRS.	PIRS.	RS.	RS.		
Special ..	283,947	919,962	629,556	1,515,338	7-905	8-095	49,569	90,432	68-466	88-435
1st-Class ..	736,829	1,323,665	1,018,798	2,351,800	12-008	11-715	1,28,865	2,05,666	57-522	72-309
2nd ..	158	1,065	..	..	17-583	..	112	..	19-109	..
3rd ..	122	187	..	..	19-200	..	31	..	19-312	..
4th ..	5,416	65,578	23,410	35,002	23-964	22-404	8,861	6,816	83-326	95-134
5th ..	1,004	405	40	6,078	42-379	51-531	311	1,642	23-881	95-594
Total ..	1,027,476	2,310,862	1,671,804	3,908,218	10-798	10-479	1,87,749	3,04,556	61-371	77-992
MILITARY STORES—	2,245	535	1,835	26,204	24-034	27-404	348	4,002	86-875	109-530
RAILWAY MATERIALS FOR CONSTRUCTION.	450,525	48,940	294,217	90,561	8-182	5-665	21,284	11,352	81-056	38-123
MINERALS—	..	..	..	..	..	..	..	..	..	..
For the public ..	..	..	..	..	..	..	..	..	..	..
Company (Construction only) ..	..	..	..	..	..	..	..	..	..	..
Total Goods ..	1,480,246	2,360,337	1,967,856	4,024,983	10-467	10-249	2,09,381	319,910	63-386	73-177
STORES CARRIED FREE FOR REVENUE ..	78,770	26,569	116,547	30,390	..	..	..	..	57-556	32-181
	No.	No.	No.	No.	Average rate per ton mile.				Estimated total ton mileage.	
LIVE STOCK—					PIRS.	PIRS.				
Horses ..	..	..	5	..	28-183	..	16	..	..	109
Cattle ..	147	..	332	..	14-997	20-234	278	769	3,559	7,261
Sheep, &c. ..	65	..	2,019	..	45-993	35-803	126	204	526	1,094
MILITARY LIVE STOCK—										
Horses ..	10	..	10	..	16-254	29-198	32	33	378	217
Cattle ..	..	..	..	..	..	..	..	..	..	..
Sheep, &c. ..	..	..	..	..	..	..	..	..	..	..
RENTS AND DEMURAGE, WHARFAGE, &c. ..	..	..	..	..	..	..	422	26	..	..
INTEREST ON OUTSTANDING BILLS ..	..	..	..	..	..	..	..	..	..	..
MISCELLANEOUS ..	..	..	..	..	..	..	..	..	..	..
Total ..	2,10,239	3,20,958	..	..	..	..	..	..	..	..
Less outstandings irrecoverable ..	..	..	..	..	..	..	..	..	..	..
Net Total ..	2,10,239	3,20,958	..	..	..	..	..	..	..	..

TABLE C.—I.

Comparative Statement showing the Weight and Earnings of the principal commodities carried during the half-years ending 30th June 1875 and 30th June 1876.

Description.	QUANTITY.		RECEIPTS.		Increase in Quantity.	Decrease in Quantity.	Increase in Receipts.	Decrease in Receipts.
	1st-half, 1875.	1st-half, 1876.	1st-half, 1875.	1st-half, 1876.				
	TONS.	TONS.	RS.	RS.	TONS.	TONS.	RS.	RS.
Areca nuts ...	1,156	1,297	4,232	6,064	141	...	1,832	...
Cloth ...	971	2,138	4,808	14,209	1,167	...	9,401	...
Cotton ...	...	423	...	2,099	423	...	2,099	...
Curry stuff ...	2,476	4,248	12,594	26,057	1,772	...	13,503	...
Fruits and Vegetables ...	1,524	1,450	6,140	5,648	...	74	...	492
Grain of all kinds ...	19,101	26,259	42,224	79,231	7,158	...	37,007	...
Granite stones ...	6,542	5,377	7,823	6,802	...	1,165	...	1,021
Hides ...	508	760	2,474	4,343	252	...	1,869	...
Oil and Ghee ...	1,043	1,577	6,106	10,561	534	...	4,455	...
Oil-cakes ...	1,085	2,229	5,866	11,882	1,144	...	6,016	...
Salt ...	5,432	6,383	28,219	29,465	951	...	1,246	...
Seeds of all kinds ...	2,871	5,700	13,361	30,300	2,829	...	16,939	...
Sundries ...	11,291	13,458	51,968	79,241	2,167	...	27,273	...
Tobacco ...	429	503	2,282	2,616	74	...	334	...
Total ...	54,429	71,802	1,88,097	3,08,558	17,373	...	1,20,461	...

TABLE D.
Statement of Mileage maintained by Revenue.

Details.	1st-HALF, 1875.			1st-HALF, 1876.				
	Depart-mentally.	By Con-tract.	Total.	Depart-mentally.	By Con-tract.	Total.	Total Increase.	Total Decrease.
	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.
1. Mean miles of line maintained by Revenue.	185-000	...	185-000	183-186	...	183-186	...	1-814
2. Single	...	...	...	...	...	...	...	...
3. Double	...	...	...	183-186	...	183-186	...	1-814
Total	185-000	...	185-000	15-024	...	15-024	...	0-351
4. Mean miles of sidings maintained	15-375	...	15-375	198-210	...	198-210	...	2-165
Total	200-375	...	200-375	198-210	...	198-210	...	2-165
5. Mean miles of single track, including sidings	200-375	...	200-375	198-210	...	198-210	...	2-165

TABLE D—I.
Statement of Train Mileage.

Details.	TRAIN MILES RUN.				HOURS OF		
	Traffic De-partment.	Locomotive Department.	Maintenance Department.	Total.	Assisting Engines.	Shunting, Piloting, &c.	Miscellaneous Services.
					H. M.	H. M.	H. M.
1st-half, 1875	...	...	...	...	...	...	...
Passenger	...	...	...	...	...	...	...
Goods	...	...	...	...	...	...	...
Mixed	154,593	626	3,542	158,761	9 15	7,338 58	1,594 15
Total	154,593	626	3,542	158,761	9 15	7,338 58	1,594 15
1st-half, 1876	...	...	...	...	...	...	...
Passenger	...	...	...	...	...	...	...
Goods	...	...	...	...	...	...	...
Mixed	267,969	1,205	2,116	271,290	28 26	12,688 2	2,415 33
Total	267,969	1,205	2,116	271,290	28 26	12,688 2	2,415 33
Increase in 1876	...	...	...	...	...	...	...
Passenger	...	...	...	...	...	...	...
Goods	113,376	579	...	113,955	19 11	5,349 4	821 18
Mixed	113,376	579	...	113,955	19 11	5,349 4	821 18
Total	113,376	579	...	113,955	19 11	5,349 4	821 18
Decrease in 1876	...	...	...	...	...	...	...
Passenger	...	...	...	...	...	...	...
Goods	...	...	1,426	...	...	...	...
Mixed	...	...	1,426	...	...	...	...
Total	...	...	1,426	...	...	...	...

* Passenger train mileage
Proportion of mixed train mileage due to Passengers ... 142,158
Total ... 142,158

Goods train mileage
Proportion of mixed train mileage due to Goods ... Nil
Total ... 125,811

TABLE.—E.
Maintenance of Way, Works, and Stations.

				1st-HALF, 1875.	1st-HALF, 1876.						
				Total.	Total.	Increase.	Decrease.				
Mileage of line maintained				185	183-185	..	1-814				
Mileage of single track, including sidings ..				200-375	198-210	..	2-165				
Train mileage				154,593	267,969	113,376	..				
Ton mileage				26,333,575	41,963,299	15,629,724	..				
Details.				1st-HALF, 1875.	1st-HALF, 1876.			Per Mile of Line main- tained.	Per Mile of Track, includ- ing sidings.	Per Train Mile.	Per 1,000 Ton Miles.
				Total.	Total.	Increase.	Decrease.				
GENERAL SUPERINTENDENCE—											
Engineers' salaries and allowances ..				Rs. 5,464	Rs. 5,519	Rs. 55	Rs. ..	Rs. 30-128	Rs. 27-844	Rs. 0-330	Rs. 0-131
Subordinate Superintendents' salaries and allowances, including overtime ..				4,090	4,095	5	..	22-354	20-660	0-245	0-098
Office expenses				2,269	2,392	123	..	13-058	12-068	0-143	0-057
MAINTENANCE AND RENEWAL OF PERMANENT-WAY—											
Wages				19,152	19,009	..	143	103-769	95-903	1-135	0-453
Materials				2,816	3,695	879	..	20-171	18-642	0-221	0-068
REPAIRS OF BRIDGES, &c.—WAGES AND MATERIALS—											
Bridges and Tunnels				289	753	464	..	4-111	3-799	0-045	0-018
Miscellaneous				1,251	471	..	780	2-571	2-376	0-028	0-011
REPAIRS OF STATIONS AND BUILDINGS—WAGES AND MATERIALS—											
Repairs of all except Staff quarters ..				2,916	1,574	..	1,342	8-592	7-941	0-094	0-038
.. of Staff quarters				273	125	..	148	0-682	0-631	0-007	0-003
MAINTENANCE BY CONTRACT—											
Amount paid to Contractors				..	..	..	..	..	..	..	..
Materials supplied by the Company				..	..	..	..	..	..	..	..
New Minor Works				..	950	950	..	5-186	4-793	0-057	0-023
UNCLASSIFIED EXPENDITURE—											
Plantations				..	..	..	..	..	..	..	..
Tools and Plant				368	639	273	..	3-488	3-224	0-028	0-015
Loss on Stores, &c.				168	978	810	..	5-339	4-934	0-058	0-023
Total ..				39,054	40,200	3,559	2,413	219-449	202-815	2-401	0-958
Less ..				..	6,331	..	6,331	34-561	31-941	0-378	0-151
Net Total ..				39,054	33,869	..	5,185	184-885	170-874	2-023	0-807

TABLE E—I.
Maintenance of Way.
Rails.

	Details.		Total.
	Double headed weighing 68 lbs. per yard.	Flat footed weighing 40-3 weighing lbs. 33-5 per yard.	
1 Miles of rail in way, including sidings ..	359-222 YRS. MS. 11-50	40-925 YRS. MS. 11-25	651-067
2 Average age of rails in way at the middle of the half-year ..	1,425 3	38	5-617
3 Rails inverted... { Miles ..	2-850 0-006	0-070	1,466
4 Proportion inverted per mile of (1) rail ..	127 0-0079	0-0017	2-926
5 Rails renewed .. { Miles ..	0-254 0-0007	0-041	0-0034
6 Proportion renewed per mile (1) rail ..	125,642	24,189	209
7 Average number of tons hauled over each kind of rail in the half-year ..	3,498	634	0-414
8 Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2) ..	..	..	0-0005

TABLE E—II.
Maintenance of Way.
Sleepers.

	NEGAPATAM TO ERODE.		ARCONUM TO CONJEVERAM.	
	WOODEN.	IRON POTS weighing 188 lbs. with tie-bars.	WOODEN.	IRON POTS (Dr. Berger's weighing 136 lbs. with tie-bars.)
Details.	Transverse creosoted pine 10'X10'X5"	Transverse creosoted pine, half round 14'X10'X8"	Teak. 6'X7'X3 1/4"	Longitudinal Teak 10'X7 1/4"
	No.	No.	No.	No.
1 Number of sleepers in way, including sidings ..	128,333	187,667	27,478	126
2 Average age of sleepers in way at the middle of the half-year ..	14-50	8-75	11-25	11-25
3 Number renewed ..	8,51	2-50	..	..
4 Do. per cent. of (1) ..	0-663	0-001	..	..

TABLE F.
Locomotive Department Expenses.

	1st-HALF, 1875.	1st-HALF, 1876.				
	Total.	Total.	Increase.	Decrease.		
Train mileage	154,593	267,969	113,376	...		
Ton mileage	26,333,575	41,963,299	15,629,724	...		
Details.	1st-HALF, 1875.	1st-HALF, 1876.			Per Train Mile.	Per 1,000 Ton Miles.
	Total.	Total.	Increase.	Decrease.		
	RS.	RS.	RS.	RS.	AS.	RS.
GENERAL SUPERINTENDENCE—						
Salaries of Superintendents and Assistants, including allowances	6,191	6,867	676	...	0.410	0.164
Do. of Subordinate do. including do.	5,595	7,751	2,156	...	0.463	0.185
Office expenses	4,168	5,687	1,519	...	0.340	0.136
RUNNING EXPENSES—						
Wages of Drivers and Firemen, including overtime	17,960	30,677	12,717	...	1.832	0.731
Fuelling, cleaning, and looking after en- gines	1,335	3,192	1,857	...	0.191	0.076
Contingent expenses	...	1,183	1,183	...	0.071	0.028
FUEL—						
Coal	41,812	80,162	38,350	...	4.786	1.910
Coke	148	...	...	148	...	...
Patent fuel	13,064	6,158	...	6,906	0.368	0.147
Wood	1,182	3,436	2,254	...	0.205	0.082
WATER, INCLUDING WAGES AND STORES	2,569	3,843	1,274	...	0.229	0.092
OIL, TALLOW, AND OTHER STORES	...	...	...	...	...	...
MAINTENANCE AND RENEWALS—						
Wages, including overtime	6,623	9,480	2,857	...	0.566	0.226
Materials	3,728	65,311	61,583	...	3.899	1.556
PAYMENTS TO OTHER LINES	...	...	...	...	...	...
UNCLASSIFIED EXPENDITURE	...	56,883	56,883	...	3.396	1.355
Total	1,04,375	2,80,630	183,309	7,054	16.756	6.688
Less	...	...	...	...	...	...
Net Total	1,04,375	2,80,630	176,255	...	16.756	6.688

	FUEL CONSUMED.							
	Coal.	Coke.	Patent Fuel.	Wood.	Average Consumption per Train Mile.		Average Consumption per 1,000 Ton Miles.	
	TONS.	TONS.	TONS.	TONS.	Coal, Coke, and Patent Fuel.	Wood.	Coal, Coke, and Patent Fuel.	Wood.
Quantity consumed during the 1st-half of 1875.	1,990	4	...	2,433	28,892	35,254	169,618	206,962
Do. do. do. 1876.	4,220	...	...	1,085	53,276	9,070	225,264	57,917
Increase in 1876	2,230	...	...	1,348	6,384	26,184	55,646	149,045
Decrease in "	...	4	...	...	...	...	...	...

TABLE F—I.
Locomotive Power.

	BROAD GAUGE.				METRE GAUGE.		NARROW 3' 6" GAUGE.	
	Passenger.	Goods.	Goods.	Tank.	Passengers and Goods.	Tank.	Tank.	Total.
Locomotives.	4	6	4	4	6	...	4	...
1. Wheels coupled.	tons. 9.00	tons. 10.15	tons. 9.50	tons. 8.00	tons. 6.00	...	tons. 3.15	...
2. Weight on driv- ing axle	23.50	29.50	28.00	15.00	18.00	...	14.15	...
3. Total weight in steam, exclusive of tender								
1. Number of locomotives erect- ed and made over to Locomotive Department...	6	2	2	2	62	4	4	82
2. Average number of locomotives constantly under re- pairs and renewals	1.222	1.000	0.510	0.300	3.450	...	0.350	6.832
3. Number of locomotives laid by as spare or hired out to other lines	...	...	...	...	8	4	...	12
4. Average number of locomotives at work [1—(2+3)]	4.778	1.000	1.490	1.700	50.550	...	3.650	63.163
5. Train miles hauled by each class of locomotives at work (4)	35,462	11,631	22,079	...	177,409	...	7,181	*253,762
6. Average train miles hauled by each locomotive at work (4)	7,422	11,631	14,818	...	3,510	...	1,967	4017
Per half-year	41	64	81	...	19	...	11	22
Per day	...	...	...	...	...	...	...	...
7. Weight of coal, &c., used per train mile	40.15	50.22	40.08	...	29.32	...	...	...
8. Weight of wood used per train mile	...	...	...	...	...	...	67.35	...
9. Average gross weight of the trains hauled by each class of locomotives	...	...	...	...	...	...	...	119,758
NUMBER OF MILES PER HOUR.								
	Passenger Trains.	Goods Trains.	Mixed Trains.	Mail Train.	Mixed Local Trains.			
10. Average speed between stations	24	...	21	20	20			
11. Average through speed	19	...	16	17	14			

* (17,528 miles) the mileage of 9 engines sold to the Punjab Northern State Railway has been deducted from the total; which therefore does not agree with the total train mileage shown in Form XIV of Revenue Account.

TABLE G.
Carriage and Wagon Expenses.

	1st-HALF, 1875.	1st-HALF, 1876.				
	Total	Total	Increase.	Decrease.		
Train mileage	154,593	267,969	113,376	...		
Vehicle mileage ... { Coaching	1,093,223	2,662,266	1,569,043	...		
{ Goods	1,423,156	2,413,392	990,236	...		
Total ...	2,516,379	5,075,658	2,559,279	...		

Details.	1st-HALF, 1875.	1st-HALF, 1876.			Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
	Total	Total	Increase.	Decrease.		
GENERAL SUPERINTENDENCE—						
Salaries of Superintendents, including allowances	1,102	719	...	383	0-043	0-142
Do. of Subordinate do., including do.	1,074	861	...	213	0-051	0-170
Office expenses	726	591	...	135	0-035	0-116
REPAIRS AND RENEWALS OF VEHICLES AND MACHINERY—						
Coaching Vehicles... { Wages, including over-time	886	2,133	1,247	...	0-127	a0-801
{ Materials	1,476	2,952	1,476	...	0-176	a1-109
Goods Vehicles ... { Wages, including over-time	2,217	2,898	681	...	0-173	b1-200
{ Materials	3,925	4,918	993	...	0-294	b2-038
CLEANING AND OILING—						
Labor, including wages of oilers, &c. ...	1,419	3,312	1,893	...	0-193	0-653
Stores	1,454	1,769	315	...	0-106	0-349
Unclassified Expenditure	...	1,35,888	1,35,888	...	8-114	26-772
Total ...	14,279	1,56,041	1,42,493	731	9-317	30-743
Less ...	31	12	...	19	...	0-002
Net Total ...	14,248	1,56,029	1,41,781	...	9-317	30-741

(a)—Per 1,000 coaching vehicle miles.
(b)—Per 1,000 goods do.

TABLE G.—I.
Repairs and Working of Vehicles.

Description of Vehicles.	Average weight in tons.	Average carrying capacity.	Total number constructed to end of half-year.	REPAIRED AND RENEWED.			Average Number constantly under Repairs and Renewals.	Proportion per cent. constantly under Repairs and Renewals.	Number laid by as spare, or hired out, or lent to other lines.	Average Number in working order.	Total Vehicle Mileage.	AVERAGE MILEAGE RUN PER VEHICLE.	
				Number repaired.	Number renewed.	Total.						During half-year.	Per Day.
	(a.)	(b.)	(c.)	(d.)	(e.)	(f.)	(g.)	(h.)	(i.)	(k.)	(l.)	(m.)	(n.)
BROAD GAUGE.													
Coaching Vehicles—													
Sleeping carriages ..	..	..	..	..	..	..	..	..	..	..	1,329	95	..
Saloon do. M. ..	..	..	..	..	..	..	..	..	..	..	1,341	84	..
First-class do. M. ..	..	1st 2nd 10 20	..	..	..	..	..	..	..	..	..	..	..
Composite do. ...	7-29	14 16	7	8	..	8	0-077	1-100	..	6-923	64,281	9,285	51
Second-class do. ..	6-56	48	2	5	..	5	0-082	4-100	..	1-918	32,345	16,864	93
Third-class do. ..	5-53	50	24	18	..	18	0-237	0-697	..	33-763	439,182	13,008	71
Horse boxes ..	7-09	3	3	2	..	2	0-016	0-533	..	2-984	16,756	5,615	31
Carriage trucks ..	5-06	1½	1	..	..	..	..	..	..	1-000	4,276	4,276	23
Passenger brake-vans ..	6-11	6-00	8	7	..	7	0-093	1-163	..	7-907	85,858	10,858	60
Total ..	..	..	55	40	..	40	0-505	0-918	..	54-495	a 645,368	11,843	65
Goods Vehicles—													
Covered goods wagons..	6-12	6-00	106	4	..	4	0-050	0-047	..	105-950	b 264,795	2,499	14
High-sided do. ..	5-32	8-00	25	..	..	..	..	..	..	25-000	372,773	14,911	82
Open goods do. ..	4-92	6-00	..	..	..	..	..	..	..	..	8,080	63	..
Low-sided M ..	..	..	..	..	..	..	..	..	..	..	393	56	..
Cattle vans M ..	..	..	..	..	..	..	..	..	..	..	1,743	73	..
Timber trucks ..	4-74	6-00	4	..	..	..	..	..	..	4-000	9,023	2,256	12
Coke wagons M ..	..	..	..	..	..	..	..	..	..	..	8,790	63	..
Ballast do. ..	4-92	6-00	50	..	..	..	..	..	..	50-000	14,195	284	2
Salt vans ..	5-25	10-00	25	1	..	1	0-005	0-020	..	24-995	56,969	2,279	13
Powder vans M ..	..	..	..	..	..	..	..	..	..	..	2,265	60	..
Goods brake-van ..	5-25	6-00	..	..	..	..	..	..	..	..	725	81	..
Total ..	..	..	210	5	..	5	0-053	0-026	..	209-945	c 739,751	3,524	19
METRE GAUGE.													
Coaching Vehicles—													
Royal saloon carriages ..	..	..	3	..	..	..	..	..	..	3-000	..	..	..
Saloon do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..
First-class do. ..	5-11	15	13	24	..	24	0-799	6-146	..	12-201	105,357	8,635	47
Composite do. ..	5-03	1st 2nd 916	9	3	..	3	0-107	1-189	..	8-893	39,480	4,439	24
Second-class do. ..	5-05	32	7	8	..	8	0-228	3-257	..	6-772	101,181	14,941	82
Third-class do. ..	4-65	40	116	32	..	32	0-080	0-069	..	115-920	1,309,641	11,298	62
Horse boxes ..	4-35	2	11	4	..	4	0-005	0-045	..	10-995	22,298	20,280	11
Post Office vans ..	5-20	..	3	..	..	..	..	..	..	3-000	..	..	..
Carriage trucks ..	..	..	4	..	..	..	..	..	..	4-000	..	..	..
Passenger brake-vans ..	5-20	..	24	32	..	32	0-043	0-179	..	23-957	215,619	9,003	49
Total ..	..	..	190	103	..	103	1-262	0-664	..	188-738	d 1,793,576	9,503	52

7 405 miles were run for Engineering, Locomotive, and Traffic Depts.
do. do. do.

[illegible]

I

TABLE G.—I.—(Continued)
Repairs and Working of Vehicles.

Description of Vehicles.	Average weight in tons.	Average carrying capacity.	Total number constructed to end of half-year.	REPAIRED AND RENEWED.			Average number constantly under repairs and renewals.	Proportion per cent. constantly under repairs and renewals.	Number laid by as spare, or hired out, or lent to other lines.	Average number in working order.	Total vehicle mileage.	AVERAGE MILEAGE RUN PER VEHICLE.	
				Number repaired.	Number renewed.	Total.						During half-year.	For Day.
METRIC GAUGE.—(Contd).	(a.)	(b.)	(c.)	(d.)	(e.)	(f.)	(g.)	(h.)	(i.)	(j.)	(k.)	(m.)	(n.)
Goods Vehicles—													
Covered goods wagons ..	3.52	6.00	382	106	..	106	1.589	0.416	..	330.411	1,433,651	3,769	21
High-sided do. ..	3.18	6.00	157	72	..	72	0.939	0.598	..	156.061	210,407	1,348	7
Open goods low-sided ..	2.92	5.50	67	19	..	19	0.217	0.324	..	66.783	70,642	1,058	6
Cotton trucks ..	4.15	4.50	72	1	..	1	0.038	0.053	..	71.962	44,898	624	3
Powder vans ..	5.15	4.00	3	2	..	2	0.038	1.266	..	2.962	2,989	1,009	6
Timber trucks ..	2.40	5.00	24	1	..	1	0.000	..	..	24.000	33,827	1,410	8
Ballast wagons ..	2.83	5.50	130	36	..	36	0.309	0.238	..	129.691	61,307	473	3
Salt vans ..	3.62	6.00	11	4	..	4	0.055	0.500	..	10.945	37,043	3,385	19
Goods brake-vans ..	4.34	3.00	13	3	..	3	0.038	0.292	..	12.962	48,150	3,715	20
Five ton travelling crane ..	..	..	1	..	..	..	..	..	..	1.000	156	156	..
Total ..	..	..	860	244	..	244	3.223	0.374	..	858.777	1,943,070	2,268	12
Gauge 3'-6".													
Coaching Vehicles—													
Sleeping carriages ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Saloon ..	..	..	..	..	..	..	..	..	..	..	..	..	..
First-class ..	..	12	3	..	2	2	..	..	..	..	..	..	..
Composite ..	2.77	1st 2nd 68	4	..	..	..	..	..	..	..	7,334	..	..
Second ..	3.03	16	6	..	3	3	0.065	0.181	..	35.935	9,875	1,628	9
Third ..	2.88	25	20	..	11	11	..	..	..	..	34,025	..	..
Passenger brake-vans ..	3.75	..	3	..	..	..	..	..	..	..	7,277	..	..
Total ..	..	..	36	..	16	16	0.065	0.181	..	35.935	53,511	1,628	9
Goods Vehicles—													
Covered goods wagons ..	..	..	..	..	..	..	..	..	..	..	..	..	..
High-sided do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Open goods, low-sided ..	2.28	3.00	40	..	38	38	0.120	0.300	..	39.880	18,347	460	3
Cattle vans ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Powder vans ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timber trucks ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Coke wagons ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goods brake-vans ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	40	..	38	38	0.120	0.300	..	39.880	18,347	460	3

a.—231,394 miles were run with third-class Passengers.
f.—1,640 do.
g.—5,185 do.

A.—197 miles were run with Carriages.
i.—30,238 do.
for Engineering, Locomotive, and Traffic Departments.

TABLE G.—II.
Distribution of Vehicle Mileage according to the Traffic carried.

Description of Vehicles.	Mileage Run.	Remarks.
COACHING—	171,929	
First-class ...	190,594	
Second " ...	2,019,325	
Third " ...	..	
Fourth " ...	6,113	
Carriage trucks ...	39,054	
Horse boxes ...	127,442	
Luggage vans ...	107,809	
Post Office vehicles ...	2,662,266	
Total (paying vehicle mileage)...	73,503	
Passenger brake-vans ...	2,735,769	Includes 17,127 miles of empty vehicles.
Total, including brakes ...	..	
Goods—	2,396,649	
Goods vehicles ...	16,743	
Cattle vans ...	..	
Mineral trucks ...	2,413,392	
Total, (paying vehicle mileage) ...	7,773	
Goods brake-vans ...	2,421,165	Includes 630,371 miles of empty vehicles.
Total, including brakes ...	..	
MISCELLANEOUS—		
(For Stores and Materials carried free on Revenue Account.)		
For Locomotive Department (in entire train loads) ...	29,597	132,228
For Engineering do. do. ...	5,524	11,607
For stores carried free for Traffic Department ...	6,171	3,102
Brake-vans ...	397	..
Total, including brakes ...	41,689	146,937
Grand Total ...	5,198,623	146,937

Ton mileage of Stores and Materials carried.

TABLE H.
Traffic Expenses.

Details.	1st-HALF, 1875.	1st-HALF, 1876.			Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
	Total.	Total.	Increase.	Decrease.		
Train Mileage	154,593	267,969	113,376	...		
Vehicle Mileage ...						
Coaching	1,093,223	2,662,266	1,569,043	...		
Goods	1,423,156	2,413,392	990,236	...		
Total	2,516,379	5,075,658	2,559,279	...		
Details.	1st-HALF, 1875.	1st-HALF, 1876.			Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
	Total.	Total.	Increase.	Decrease.		
SALARIES, WAGES, &c.—	RS.	RS.	RS.	RS.	AS.	RS.
General Superintendence, including travelling allowances	4,852	7,995	3,143	...	0.477	1.575
Office Establishment and Contingencies	1,023	1,967	944	...	0.118	0.388
Station Staff	16,773	41,552	24,779	...	2.481	8.186
Train "	3,752	5,642	1,890	...	0.337	1.112
FUEL, LIGHTING, WATER AND GENERAL STORES	1,629	3,600	1,971	...	0.215	0.709
CLOTHING	874	1,393	519	...	0.083	0.274
PRINTING, STATIONERY, AND TICKETS	2,803	5,218	2,415	...	0.312	1.028
CHARGES FOR DELIVERY AND COLLECTION OF GOODS, &c.	...	...	...	...	...	...
MISCELLANEOUS EXPENSES	268	684	416	...	0.041	0.135
PAYMENTS TO OTHER LINES—						
Mileage of Foreign Stock*	7,759	...	...	7,759	...	...
Expenses at Joint Stations	7,025	3,043	...	3,982	0.181	0.600
UNCLASSIFIED EXPENDITURE	...	...	...	...	...	...
Total	46,753	71,094	36,077	11,741	4.245	14.007
* Less "Mileage on Foreign Stock" transferred to Table L as per revised forms of accounts	7,759	82	...	7,677	0.005	0.016
Net Total	38,999	71,012	32,013	...	4.240	13.991

TABLE J.
General Charges.

Details.	1st-HALF, 1875.	1st-HALF, 1876.			Cost per Train Mile.
	Total.	Total.	Increase.	Decrease.	
TRAIN MILEAGE	1,54,593	2,67,969	1,13,376	...	...
HOME EXPENDITURE	RS. 5,067	RS. 7,305	RS. 2,238	...	AS. 0.436
INDIAN MANAGEMENT—					
Agent's Office, including travelling allowances and Contingencies	4,915	6,643	1,728	...	0.337
Auditor's Office do. do.	9,494	12,146	2,652	...	0.725
Account's Office do. do.	2,123	3,034	911	...	0.181
Paymaster's Office do. do.	651	1,007	356	...	0.060
Store Department do. do.	...	...	...	...	...
Medical Department do. do.	...	...	...	...	...
Rents	1,000	1,580	580	...	0.094
Miscellaneous expenses, including Printing and Stationery and Medicine	...	...	...	...	...
POLICE	87	508	421	...	0.030
ADVERTISING	...	...	...	...	...
ELECTRIC TELEGRAPH—					
Salaries, &c.	3,424	6,880	3,456	...	0.411
Maintenance (Wages and Stores)	133	177	44	...	0.011
Government Telegraph Department for Rent, Maintenance and Inspection	...	...	...	...	...
CLEARING ACCOUNTS WITH OTHER LINES	...	2,522	2,522	...	0.151
UNCLASSIFIED EXPENDITURE	...	...	...	...	...
Total	26,894	41,802	14,908	...	2.496
Less	...	...	...	...	...
Net Total	26,894	41,802	14,908	...	2.496

TABLE K.
Steamboat Service.

Details.	1st-HALF, 1875.	1st-HALF, 1876.		
	Total.	Total.	Increase.	Decrease.
WORKING VESSELS—	RS.	RS.	RS.	RS.
Salaries and allowances of Officers and Crew ...	...	...	...	...
Loading and unloading vessels ...	...	...	...	...
Pilotage fees ...	...	...	...	...
Contingencies ...	...	...	...	...
REPAIRS—				
Wages ...	...	...	...	...
Materials ...	...	...	...	...
FUEL—				
Fuelling Establishment and Fuelling vessels ...	...	...	...	...
Coal ...	...	...	...	...
Coke ...	...	...	...	...
Patent fuel ...	...	...	...	...
Wood ...	...	...	...	...
MISCELLANEOUS STORES ...	...	...	...	...
STEAM TRAFFIC AGENCIES ...	...	...	...	...
MISCELLANEOUS EXPENDITURE ...	...	...	...	...
CONTRIBUTION TO FLOTILLA RESERVE FUND ...	...	...	...	...
Total ...	...	...	...	...
Less ...	...	...	...	...
Net Total ...	...	...	...	...
	Quantity consumed.	Quantity consumed.	Increase.	Decrease.
Coal ...	TONS.	TONS.	TONS.	TONS.
Coke ...	...	...	...	...
Patent fuel ...	...	...	...	...
Wood ...	...	...	...	...

TABLE L.
Special and Miscellaneous Expenditure.

Details.	1st-HALF, 1875.	1st-HALF, 1876.		
	Total.	Total.	Increase.	Decrease.
	RS.	RS.	RS.	RS.
LAW CHARGES ...	16	13	...	3
COMPENSATION—				
For goods lost or damaged ...	60	613	553	...
„ personal injury ...	...	...	...	...
„ other claims ...	...	6	6	...
RATES AND TAXES ...	1,343	674	...	669
INTEREST ON REVENUE BALANCES ...	...	...	...	...
PAYMENTS TO OTHER LINES—				
Hire of Locomotives ...	...	...	...	...
Hire of Vehicles ...	...	...	...	...
Mileage of Foreign Stock ...	*7,759	8,089	330	...
Rent of Stations, &c., jointly occupied ...	...	4,289	4,289	...
Total ...	9,178	13,684	5,178	672
Less ...	...	...	...	...
Net Total ...	9,178	13,684	4,506	...

* Transferred from Table II as per revised Forms of Accounts.

ANALYSIS OF CARRYING COST.

TABLE M.—I.

The unit	of Passenger Traffic	Definitions.
"	of Carriages	is—1 Passenger
"	of Horses	is—1 carriage
"	of Luggage	is—1 horse
"	of Post Office vehicles	is—1 ton.
"	of Goods	is—1 "
"	of Cattle	is—1 "

Data for calculating the inci

Approximate Weight of Units to be adopted in these calculations.			
COACHING—		cwt.	tons.
A 1st-Class passenger with free luggage..		1.75 or .0875	
A 2nd " " " "		1.75 or .0875	
A 3rd " " " "		1.25 or .0625	
A 4th " " " "		1.25 or .0625	
A carriage (average for two and four wheeled)..		6.75 or .3375	

ence of Carrying Cost per Unit per Mile for each Class of Passenger Traffic, and for Goods, Cattle and Minerals.

Total Mileage of each description of Rolling Stock.	Total Mileage of Units.	AVERAGE CONTENTS IN UNITS OF EACH VEHICLE.		Average Weight of Rolling Stock in Tons.	Total Average Weight, including Contents of each Vehicle in Tons.	Proportion per cent. of Freight to Total Weight.	TON MILEAGE.		TOTAL TON MILEAGE.	
		No.	Weight in Tons.				Of Freight.	Of Dead Weight.	Excluding Engines and Tenders and Brake-vans.	Including Engines and Tenders and Brake-vans.
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(k)	(l)
COACHING—										
1 1st-Class	171,929	1,273	0.111	5.431	5.542	2.009	19,144	933,747	952,891	..
2 2nd "	190,594	6,098	0.534	5.591	6.125	8.710	101,690	1,065,611	1,167,301	..
3 3rd "	2,019,325	23,744	1.484	4.682	6.166	24.068	2,996,711	9,454,479	12,451,190	..
4 4th "	..	..	..	..	..	..	..	..	..	..
5 Carriage Trucks	6,113	1,900	0.641	4.414	5.055	12.688	3,921	26,983	30,904	..
6 Horse Boxes	39,054	0.859	0.376	5.526	5.902	6.369	14,681	215,812	230,493	..
7 Luggage Vans	127,442	..	0.421	5.635	6.056	6.948	53,623	718,136	771,759	..
8 Post Office Vehicles	107,809	..	*0.450	5.200	5.650	7.965	48,514	560,607	609,121	..
9 Total	2,662,266	..	..	..	..	..	3,238,284	12,975,375	16,213,659	..
10 Passenger Engines and Tenders	..	..	..	..	..	..	..	..	..	..
11 Do. Brake-vans	142,158	..	..	33.736	..	..	..	4,795,784	..	..
12 Total Coaching, Ton Mileage	73,503	..	..	5.365	..	..	..	394,344	..	..
13 Goods—	..	..	..	..	..	..	3,238,284	18,165,503	..	21,403,787
14 Goods Vehicles	2,396,649	..	2.500	4.094	6.594	37.913	5,992,841	9,811,880	15,804,721	..
15 Cattle Vans	16,743	..	0.518	3.825	4.343	11.938	8,681	64,042	72,723	..
16 Mineral Trucks	..	..	..	..	..	..	..	..	..	..
17 Total	2,413,392	..	..	..	..	..	6,001,522	9,875,922	15,877,444	..
18 Goods Engines and Tenders	..	..	..	..	..	..	..	..	..	..
19 " Brake-vans	125,811	..	..	33.736	..	..	..	4,244,361	..	..
20 Total Goods, Ton Mileage	7,773	..	..	4.345	..	..	..	33,774	..	..
21 MISCELLANEOUS (FOR STORES CARRIED FREE ON REVENUE ACCOUNT.	..	..	..	..	..	..	6,001,522	14,154,057	..	20,155,679
22 For Traffic Department	6,171	..	0.503	4.379	4.882	10.303	3,102	27,023	30,125	..
23 " Locomotive Department	29,597	..	4.468	3.570	8.038	55.586	132,228	105,661	237,889	..
24 " Maintenance	5,524	..	2.101	2.935	5.036	41.723	11,607	16,213	27,820	..
25 Total	35,121	..	..	..	..	..	146,937	148,897	295,834	..
26 Engines and Tenders	..	..	..	..	..	..	..	..	..	..
27 Brake-vans	3,321	..	..	32.358	..	..	..	106,461	..	..
28 For stores carried free in ordinary trains.	397	..	..	4.128	..	..	..	1,638	..	..
29 Total Miscellaneous Ton Mileage	..	..	..	..	..	..	..	..	..	..
30 Total, Ton Mileage	..	..	..	..	..	..	146,937	256,996	..	403,933
31	..	..	..	..	..	..	9,386,743	32,576,556	..	41,963,299

* Assumed weight.

TABLE M.—II.

Division between Coaching and Goods of the Expenditure of Departments.

	Rs.	
Maintenance Expenses	129	33,869
Reduced by amount credited for sale of Revenue Stores	1,658	1,787
Do. Rents of dwelling-houses	..	32,082
Net Amount	..	2,80,630
Locomotive Expenses	21,549	..
Reduced by credit for hire of Locomotives	..	..
" " for haulage of foreign trains	200	21,749
" " for sale of Locomotive stores	..	..
" " for profits of Workshops	..	2,58,881
Net Amount	..	1,56,029
Carriage and Wagon Expenses	..	71,012
Traffic Expenses	..	6,781
Reduced by mileage of vehicles over foreign lines	..	64,231
Net Amount	..	41,802
General Charges	6,840	7,127
Reduced by telegraph receipts	287	..
" fees on share transfers, &c	..	34,675
Net Amount	..	13,684
Special and Miscellaneous Expenses	..	79
Reduced by sale of unclaimed and damaged goods	..	13,605
Net Amount	..	..

Division of Expenses.

	Maintenance.	Locomotive.	Carriage and Wagon.	Traffic.	General Charges.	Special and Miscellaneous.	Total.
	(a)	(b)	(c)	(d)	(e)	(f)	
Expenses as reduced above	32,082	2,58,881	1,56,029	64,231	34,675	13,605	5,59,503
Due to coaching	16,523	1,37,337	80,158	33,690	18,395	7,217	2,93,320
" to goods	15,559	1,21,544	75,871	30,541	16,280	6,388	2,66,183

TABLE M—III.

Distributed Cost of carrying the Vehicles of each class, including Freight.

Details.	COACHING									Goods.			
	First Class.	Second Class.	Third Class.	Fourth Class.	Carriage Trucks.	Horse Boxes.	Luggage Vans.	Post Office Vehicles.	Total.	Goods Vehicles.	Cattle Vans.	Mineral Trucks.	Total.
Maintenance (a) ..	Rs. 971	Rs. 1,190	Rs. 12,689	Rs. ..	Rs. 31	Rs. 235	Rs. 796	Rs. 621	Rs. 16,523	Rs. 15,488	Rs. 71	Rs. ..	Rs. 15,559
Locomotive (b) ..	8,071	9,888	1,05,467	..	262	1,952	6,537	5,160	137,337	1,20,987	557	..	1,21,544
Carriage and Wagon (c) ..	5,177	5,738	60,800	..	184	1,176	3,837	3,216	80,158	75,315	625	..	75,940
Traffic (d) ..	2,176	2,412	25,554	..	77	494	1,613	1,364	33,690	30,329	212	..	30,541
General (e) ..	1,188	1,317	13,953	..	42	270	880	745	18,395	16,167	113	..	16,280
Special and Miscellaneous (f) ..	468	517	5,474	..	17	106	345	292	7,217	6,344	44	..	6,388

TABLE 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.	COACHING									Goods.		
	First Class.	Second Class.	Third Class.	Fourth Class.	Carriage Trucks.	Horse Boxes.	Luggage Vans.	Post Office Vehicles.	Total.	Goods Vehicles.	Cattle Vans.	Mineral Trucks.
Maintenance ..	Pies. 1-055	Pies. 1-198	Pies. 1-207	Pies. ..	Pies. 0-974	Pies. 1-155	Pies. 1-184	Pies. 1-106	Pies. 1-241	Pies. 0-814	Pies. ..	Pies. ..
Locomotive ..	9-013	9-961	1-025	..	8-229	9-597	9-848	9-190	9-652	6-387	..	..
Carriage and Wagon ..	5-781	5-780	6-780	..	5-779	5-781	5-781	5-781	6-036	6-032	..	..
Traffic ..	2-430	2-430	2-430	..	2-418	2-429	2-430	2-429	2-430	2-431	..	..
General ..	1-327	1-327	1-327	..	1-319	1-327	1-326	1-327	1-295	1-296	..	..
Special and Miscellaneous ..	0-520	0-521	0-520	..	0-534	0-521	0-520	0-520	0-508	0-505	..	..
Total ..	20-156	21-217	21-292	..	19-253	20-810	21-089	20-353	21-202	17-465	..	..
Cost per unit ..	15-833	3-479	0-897	..	10-133	24-225	50-093	45-229	8-461	33-716	..	..

TABLE M—V.

Statement showing in comparison the Receipts and the Carrying Cost per Vehicle per mile and per unit per mile of Coaching and Merchandize Traffic.

Details.	Average Receipt per Vehicle per Mile. (a)	Carrying Cost per Vehicle per Mile. (b)	Profit per Vehicle per Mile. (c)	Loss per Vehicle per Mile. (d)	Average Receipt per Unit per Mile. (e)	Carrying Cost per Unit per Mile. (f)	Profit per Unit per Mile. (g)	Loss per Unit per Mile. (h)	Proportion per cent. of Profits to Receipts. (i)
COACHING—	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	
1st-Class ..	10-035	20-156	..	10-121	7-885	15-833	..	7-947	..
2nd " ..	18-202	21-217	..	3-015	2-945	3-479	..	0-494	..
3rd " ..	49-574	21-292	28-282	..	2-088	0-897	1-191	..	67-040
4th " ..	..	..	..	..	..	..	..	..	..
Carriages ..	43-689	19-253	24-436	..	22-990	10-133	12-87	..	55-924
Horses ..	13-662	20-810	..	7-148	15-900	24-225	..	8-325	..
Luggage, including parcels and dogs ..	28-842	21-089	7-753	..	68-516	50-093	1-453	..	26-921
Post Office vehicles ..	..	..	..	..	..	..	..	..	..
Goods—									
Merchandize, including Government Stores and Railway Materials ..	25-623	21-202	4-427	..	10-240	8-481	1-758	..	17-250
Cattle ..	11-720	17-465	..	5-745	22-604	33-716	..	11-112	..
Minerals ..	..	..	..	..	..	..	..	..	..

MADRAS,
12th February 1877.(Signed) P. LAIBERT, Major, R.E.
Examiner Railway Accounts, Madras

No 693

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 28 Feb/77
Read the following:—

From
The Hon Engineer
for Railways { (H.E. N° 119 d/20 Feb/77) }

Ordered to be for-
warded to The Govern-
ment of India.

Per 24/2

(H.E. N° 64 d/28 Feb/77)

Copy of the above
forwarded to The
Government of India.

U.

29-3-77

Ans. by Mr. Laibert
by Mr. Laibert

[illegible]