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MADRAS RECORD OFFICE.

Government of Madras.

Public DEPARTMENT.

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No. 153. Read the following letter from the Deputy Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 17th June 1871, No. 275 :—

I HAVE the honour to submit the Revenue Account and Traffic Analysis of the Great Southern of India Railway for the half-year ended the 30th June 1870, together with a Memorandum on the same.

Nos. 5, 6, 12, and 15.

G. O., No. 641, dated 4th March 1871.

2. I also forward the Statements marginally noted, referred to in paragraph 5 of this office letter No. 82, dated 18th February 1871.

Memorandum on the Traffic Analysis of the Great Southern of India Railway, for the half-year ended 30th June 1870.

IN the review of the Revenue Account of the Great Southern of India Railway for the half-year ending 30th June 1870, ordered by the Government of India Resolution, No. 1,606-R., dated 22nd September 1870, the form has been adhered to as closely as possible, but in some cases doubts have arisen as to the method of arriving at the results required to be exhibited.

2. Table A.—It would appear that the "Number of trains," "Train mileage," and "Gross ton mileage" should not include the trains run free on account of Revenue. The references to Tables D.—I. and M.—I. seem to indicate that they should be included; but no provision is made for their entry in Table A., the column headings being simply "Coaching," "Goods," "Mixed," and "Total." Trains run free on account of Revenue have therefore been omitted from Table A. In preparing the Table "Average composition of trains," the "Average number of vehicles in a train," and the "Average number of seats provided and used," have been obtained by comparison of the vehicle mileages and passenger mileages with the train mileage. If the number of vehicles and the number of passengers are compared with the number of trains the results arrived at are vitiated by the fact that some trains and almost all passengers do not make a complete journey; and in the case of third-class passengers the results thus obtained are absurd, the number of seats used exceeding very considerably the number provided. No purely passenger or purely goods trains having been run, it is impossible to give the cost of coaching per passenger train mile and of goods traffic per goods train mile, or the average number of vehicles in passenger and goods trains respectively.

3. For the same reason in Table M.—I. the ton mileage of mixed train engines has been divided between coaching and goods, in proportion to the profitable ton mileage of coaching and goods respectively.

4. Similarly ton mileage has been substituted for train mileage in Table M.—II. in distributing the locomotive and general expenses between coaching and goods. In Table M.—II. the special and miscellaneous expenditure is not included.

5. In Tables E., F., G., and H. the number, mileage, and ton mileage of trains run free on Revenue Account are not included.

6. No record has been kept of the rails inverted and renewed, or of the sleepers renewed during the half-year, and the information required in Tables E.—I. and E.—II. cannot be given.

7. The particulars required for Table F.—I. have not been recorded.

8. The information received with regard to stores carried free on Revenue Account is very imperfect, and does not afford sufficient data from which to arrive at the particulars required to be exhibited in Table M.—I.

(Signed) C. J. SMITH, Captain, R. E.,
Dy. Consg. Engr. for Railways.

GREAT SOUTHERN OF INDIA RAILWAY.

TABLE A.

General Statement of Working of half-year ending 30th June 1870.

PUBLIC TRAFFIC.		Passengers or tons of goods carried. Number.	Per-cent. of total number and total tonnage.	Earnings. Amount.	Per-cent. of total earnings from Coaching and from Goods.	Per-centage of total earnings contributed by each description of traffic.
				Rs.		
Coaching. Passengers.	1st Class.	549	0·1	3,435	1·6	55·6
	2nd ,,	4,393	1·0	5,602	2·6	
	3rd ,,	420,301	98·9	1,94,473	90·1	
	4th ,,	...	...	...	...	
Miscellaneous Earnings.		...	...	12,375	5·7	
Total...		425,243	100·0	2,15,885	100·0	...
		TONS.				
Goods. Merchandize...	1st Class.	24,528	69·5	87,074	51·9	43·2
	2nd ,,	6,054	17·2	34,863	20·8	
	3rd ,,	2,057	5·8	16,415	9·8	
	4th ,,	744	2·1	8,339	5·0	
	5th ,,	305	0·9	4,946	3·0	
	Special ,,	1,346	3·8	14,085	8·4	
Railway Materials... ...		242	0·7	1,582	0·9	
Minerals		...	...	...	...	
Miscellaneous Earnings ...		...	...	345	0·2	
Total...		35,276	100·0	1,67,649	100·0	100·0
Rent and Demurrage		...	...	368	7·6	1·2
Electric Telegraph Receipts ...		...	...	2,037	42·2	
Interest on Revenue Balances ...		...	...	8	0·2	
Mileage of Vehicles		...	...	318	6·6	
Bungalow Rents		...	...	1,382	28·7	
Fees on share transfers		...	...	259	5·4	
Sale of Unclaimed Goods		...	...	10	0·2	
Sale of Revenue Stores		...	...	441	9·1	
Total...		...	...	4,823	100·0	100·0
Grand Total...		...	...	3,88,357	...	...

TABLE A.—*(Continued.)*

	Coaching. Per Passenger train Mile.	Coaching. Per open mile per week.	Goods. Per Goods train mile.	Goods. Per open mile per week.	Miscellaneous. Per train mile.	Miscellaneous. Per open mile per week.	Total. Total.	Total. Per Total train mile.	Total. Per open mile per week.	Per-centage of Profits on paid up Capital.
	Rs. A. P.	Rs.	Rs. A. P.	Rs.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs.	Rs.
Earnings ...	.....	49	.....	38	.....	1	4,823	.....	1	
Expenses ...	.....	20	.....	31	.....	3	13,944	.....	3	
Profits ...	.....	29	.....	7	.....	Loss 2	Loss 9,121	.....	Loss 2	0·57
Per-centage of expenses to Earnings ...	.....	.....	.....	.....	.....	.....	Loss 289	.....	.....	.....
	Total.		Total.				Total.	Per Total train mile.	Per open mile per week.	
	Rs.		Rs.				Rs.	Rs. A. P.	Rs.	
Earnings ...	2,15,885		1,67,649				3,88,357	3 1 7	88	
Expenses ...	87,452		1,36,094				2,37,490	1 14 4	54	
Profits ...	1,28,433		31,555				1,50,867	1 3 3	34	
Per-centage of expenses to Earnings ...	40		81				61	.....	.....	

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TABLE A.—*(Concluded.)*

General Statement of Working of half-year ending 30th June 1870.—(Continued.)

	Passenger.	Goods.	Mixed.	Total.
Number of trains run...	.....	.....	1,666	1,666
Train mileage (D—I. 1., page 7) ...	.....	.....	120,248	120,248
Gross ton mileage (M—I. 22, page 14)	.....	.....	.....	17,904,355

Average Composition of Trains.	Average Number of Vehicles.			Average Number of Seats		Average Weight of Trains.	
	Passenger Trains.	Goods Trains.	Mixed Trains.	Provided.	Used.	Freight or live load.	Dead load exclusive of Engine and Tender
						Tons.	Tons.
Passengers ... 1st Class	None.	None.	0·4·8	9·60	0·504	0 027	3 216
2nd ,, ...			0·427	15 26	1 782	0 157	5 196
3rd ,, ...			4 793	230 02	103 28	6 435	23 893
4th ,, ...				..	..	...	...
Others			1 218	...	...	0 4121	8 2314
				Carrying capacity in tons			
Goods. (*Vehicles of all kinds including brakes*)	...	..	9·420	56 52		7 0511	43 0364

Open Mileage on 30th June 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			
									Fixed power.		Locomotive.	
Single.	Double.	Total.				1 in 100 and less.	1 in 101 to 1 in 200	1 in 201 to 1 in 300	Length.	Inclination.	Length.	Inclination
				£	£	M. Ch.	M. Ch.	M. Ch.	M. Ch.		M. Ch.	
168	...	168	168	1,327,523	7,902	3 46	9 11	11 08	Nil.	Nil.	1 00	1 in 100

TABLE B.

Statement showing in comparison the Coaching Traffic of the half-years ending 30th June 1869 *and 30th June* 1870.

Reference to Revenue Account.		Details.	Number.		Fare per Mile.		Receipts.		Average Mileage.	
Table and Main head.	Sub-head.		1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.
X (H.) 1	...	1st Class Passengers—			Pies.	Pies.	Rs.	Rs.		
		Single Journey ...	708	549	18	18	3,697	3,350		
		Excess Fares ...	34	34			121	85		
		Return Journey ...	...	...			...	...		
		Season Tickets ...	...	...			...	...		
		Troops and Police ...	1	...			8	...		
		Total...	709	549	...	...	3,826	3,435	59	67
1	...	2nd Class—								
		Single Journey ...	3,640	4,323	5	5	4,954	5,357		
		Excess Fares ...	165	217			86	119		
		Return Journey ...	...	6			...	4		
		Season Tickets ...	...	...			...	...		
		Troops and Police ...	80	64			137	122		
		Total...	3,720	4,393	...	...	5,177	5,602	52	50

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Statement showing in comparison the Coaching Traffic of the half-years ending 30th June 1869 *and 30th June* 1870.—(Concluded.)

Reference to Revenue Account.		Details.	Number.		Fare per Mile.		Receipts.		Average Mileage.	
Table and Main head.	Sub-head.		1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.
1	...	3rd Class—			Pies.	Pies.	Rs.	Rs.		
		Single Journey ...	378,111	361,902	3	3	1,90,078	1,82,363		
		Excess Fares ...	1,261	435			541	226		
		Return Journey* ...	46,174	56,880			8,688	10,497		
		Season Tickets ...	...	...			...	...		
		Troops and Police ...	1,844	1,519			2,020	1,382		
					*Nearly ½ less than the ordinary fare.					
		Total...	426,129	420,301	...	...	2,01,327	1,94,473	30	29
1	...	4th Class—								
		Single Journey ...	...	...	...	...	...	...		
		Excess Fares ...	...	...	...	...	...	...		
		Return Journey ...	...	...	...	...	...	...		
		Season Tickets ...	...	...	...	...	...	...		
		Troops and Police ...	...	...	...	...	...	...		
		Total...	...	...	...	...	...	...		
2	...	Passengers' Luggage ...	Tons. 98	Tons. 79½	2 Pies per maund per mile.		2,435	1,800	77	168
3	...	Military Baggage	...	...			...	...	...	...
4	1	Public ... Carriages ...	No. 351	No. 62			657	484	34	72
	2	Horses ...	309	207			1,667	1,439	79	96
	3	Dogs ...	207	224			163	187	74	62
5	1	Military Carriages. ...	...	...	*Vide* list attached.		...	...	...	...
	2	Horses ...	...	...			...	...	...	...
	3	Dogs ...	...	...			...	...	...	...
6	...	Parcels	Tons. 208½	Tons. 221			...	...	...	...
7	...	Special Trains	No. ...	No. 2			7,656	6,849	70	69
8		Post Office—					...	1,562	-	...
	1	Haulage and hire of Post Office Vehicles ...	...	...	...	...	...	...	...	...
	2	Special Trains ...	...	...	...	...	...	...	...	...
	3	Parcels	...	...	4 Pies per maund per mile.		...	54	...	...
		Total...	...	...	...	...	12,578	12,375	...	...

TABLE C.

Statement showing in comparison the Goods Traffic of the half-years ending 30th June 1869 *and 30th June* 1870.

Reference to Revenue Account.			Quantity.				Rate per Ton Mile.		Receipts.		Average Mileage.	
			1st half of 1869.		1st half of 1870.							
Table and Main head.	Sub-head.		Up.	Down.	Up.	Down.	1st half of 1869.	1st half of 1870.	1st half of 1869.	1st half of 1870.	1st half of 1869.	1st half of 1870.
X. (I.) 1	...	General Merchandize—	Tons.	Tons.	Tons.	Tons.	Pies.	Pies.	Rs.	Rs.		
		1st Class ...	5,505	1,866	5,984	18,544	12	12	44,709	87,074		
		2nd ,, ...	1,410	477	1,605	4,449	14	14	16,713	34,863		
		3rd ,, ...	815	1,335	1,451	606	18	18	21,443	10,415		
		4th ,, ...	257	538	138	606	24	24	8,027	8,339		
		5th ,, ...	47	83	120	185	36	36	2,502	4,946		
		Special ,, ...	2,114	9,069	595	751	8	8	34,594	14,085		
		Total...	10,148	13,368	9,893	25,141	...	...	1,27,988	1,65,722	70	62

Statement showing in comparison the Goods Traffic of the half-years ending 30th June 1869 and 30th June 1870.—(Concluded.)

Reference to Revenue Account.			Quantity.				Rate per Ton Mile.		Receipts.		Average Mileage.	
			1st half of 1869.		1st half of 1870.							
Table and Main head	Sub-head.		Up.	Down.	Up.	Down.	1st half of 1869.	1st half of 1870.	1st half of 1869.	1st half of 1870.	1st half of 1869.	1st half of 1870.
			TONS.	TONS.	TONS.	TONS.	PIES.	PIES.	Rs.	Rs.		
2	...	Military Stores ..	...	...	...	...	...	...	...	...	...	...
3	...	Railway Materials for Construction ...	1,385	1,324	68	173	14	14	7,473	1,582	...	...
6	...	Minerals— For the Public ...	...	...	...	...	...	...	...	...	...	...
		,, Company. (*Construction only*)	...	...	...	...	...	...	...	...	...	...
		Total...	1,385	1,324	68	173	...	...	7,473	1,582	13	8
		Grand Total...	11,533	14,692	9,961	25,314	...	...	1,35,459	1,67,303	...	...
			No.		No.		Rate per animal per mile.					
4	...	Live Stock— Horses ... / Cattle ... / Sheep ...	173		174		*Vide* list attached.		189	345	63	74
5	...	Military Live Stock— Horses ...	...	...	...	...	...	...	...	...	...	...
		Cattle ...	...	...	...	...	...	...	...	...	...	...
		Sheep ...	...	...	...	...	...	...	...	...	...	...

TABLE C—(1).

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

Description.	Quantity.		Receipts.		Increase in Quantity.	Decrease in Quantity.	Increase in Receipts.	Decrease in Receipts.
	1st half, 1869.	1st half, 1870.	1st half, 1869.	1st half, 1870.				
	TONS.	TONS.	Rs.	Rs.	TONS.	TONS.	Rs.	Rs.
Areca-nuts	971	1,311	6,976	7,377	340	.....	401	.....
Beer and Wine	11	4	1,396	599	.....	7	.....	797
Cloth	182	244	5,190	5,407	62	.....	217	.....
Cotton	12	20	250	267	8	.....	17	.....
Curry-stuff	593	479	2,566	4,994	.....	114	2,428	.....
Firewood	43	29	67	33	.....	14	.....	34
Fruit	530	664	3,450	5,893	134	.....	2,443	.....
Furniture	111	24	772	395	.....	87	.....	377
Grain of all kinds	10,352	17,359	28,914	60,027	7,007	.....	31,113	.....
Granite Stones	1,728	965	13,151	12,984	.....	763	.....	167
Hay and Straw	44	16	59	32	.....	28	.....	27
Hides	179	309	4,720	6,773	129	.....	2,052	.....
Indigo	13	9	271	66	.....	4	.....	205
Lac-dye	8	9	33	112	6	.....	79	.....
Metals	350	113	4,152	1,741	.....	237	.....	2,411
Oil and Ghee	209	303	2,876	5,523	94	.....	2,647	.....
Oil Cakes	533	545	1,693	2,362	7	.....	669	.....
Salt	8,827	2,981	18,119	15,645	.....	846	.....	2,474
Seeds of all kinds	740	1,533	5,680	14,205	793	.....	8,525	.....
Silk	1	.....	135	2	.....	1	.....	133
Sugar	135	119	1,258	1,340	.....	16	82	.....
Soap-sand	371	175	2,256	1,021	.....	196	.....	1,235
Sundries	1,322	1,456	13,361	15,350	134	.....	1,989	.....
Timber	801	625	5,058	1,557	.....	176	.....	3,501
Tobacco	181	126	3,987	2,320	.....	65	.....	1,667
Toddy	.....	.....	.....	.....	.....	.....	.....	.....
Treasure	17	.....	1,594	.....	.....	17	.....	1,594
Total...	23,264	29,417	1,27,984	1,66,024	8,714	2,561	52,663	14,622

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TABLE D.

*Statement of Mileage maintained.**

Reference to Revenue Account.		Details.	1st Half of 1869.			1st Half of 1870.				
Table and Main head.	Sub-head.		Departmentally	By Contract	Total.	Departmentally	By Contract	Total.	Total Increase	Total Decrease
IX. (A.)	.....	1. Mean miles of line maintained. Single ...	168	...	168	168	...	168	...	...
		2. Double ...	...	...	...	...	...	...	...	...
		3. Total ...	168	...	168	168	...	168	...	...
		4. ,, Sidings maintained, Total...	11¾	...	11¾	11¾	...	11¾	...	...
		5. ,, Single Track Total including Sidings	179¾	...	179¾	179¾	...	179¾	...	...

* From Revenue Funds.

TABLE D—I.

Statement of Train Mileage.

Reference to Revenue Account.	Details.	Train Miles run for			Hours of		
		Traffic Department.	Locomotive Department.	Maintenance Department.	Assisting Engines.	Shunting, Piloting, etc.	Miscellaneous Services.
		XIV. 1.	XIV. 2.	XIV. 3.	XIV. 4.	XIV. 5.	XIV. 6.
1	1st half, 1870 ... Passenger.	.....	.....	.....	.....	.....	.....
	Goods ...	.....	.....	.....	.....	.....	.....
	Mixed ...	120,248	.....	5,113	H. M. 14 52	H. M. 4,749 5	H. M. 1,230 10
	Total...	120,248	.....	5,113	14 52	4,749 5	1,230 10
2	1st half, 1869 ... Passenger.	.....	.....	.....	.....	.....	.....
	Goods ...	.....	.....	.....	.....	.....	.....
	Mixed ...	142,749	.....	.....	.....	Miles. 9,938	Empty Engine miles. 1,047
	Total...	142,749	.....	.....	.....	9,938	1,047
3	Increase in 1870. Passenger.	.....	.....	.....	.....	.....	.....
	Goods ...	.....	.....	.....	.....	.....	.....
	Mixed ...	.....	.....	5,113	14 52	.....	.....
	Total...	.....	.....	5,113	14 52	.....	.....
4	Decrease in 1870. Passenger.	.....	.....	.....	.....	.....	.....
	Goods ...	.....	.....	.....	.....	.....	.....
	Mixed ...	501	.....	.....	.....	.....	.....
	Total...	23,...	.....	.....	.....	.....	.....

TABLE E.

Maintenance of Way, Works, and Stations.

RAILS.

Reference to Revenue Account.			1st Half of 1869.	1st Half of 1870.			
Table and Main head.	Sub-head.	——	Total.	Total.	Increase.	Decrease.	
XIV.	....	Train Mileage (D.-I. 1, page 7)	142,749	120,248	.....	22,501	
		Ton Mileage (M.-I. 22, page 14)	.....	17,994,355	.....	.....	

Reference to Revenue Account.			Details.	1st Half of 1869.	1st Half of 1870.			Per mile of line maintained. D. 3.	Per mile of Track including Sidings. D. 5.	Per Train Mile.	Per 1,000 Ton Miles.
				Total.	Total.	Increase.	Decrease.				
				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Pies.	Rs. A. P.
If done Departmentally.	IX. (A.) 1.	1 & 2	Superintendence— Engineers' Salaries and Allowances	10,164	1,570	97	.....	9·35	8·74	2·51	0 1 5
		3 to 5	Inspectors' and Platelayers' Salaries and Allowances, including overtime ...								
		6	Office Expenses		4,651			27·69	25·88	7·43	0 4 1
					4,040			24·05	22·48	6 45	0 3 7
	2	1	Maintenance and Renewal of Permanent Way— Wages	28,508	21,676	.....	6,832	129·02	120·60	34·61	1 3 3
		2	Materials	5,726	23,304	17,578	.....	138·71	129·66	37·21	1 4 8
	3	1	Repairs of Bridges, etc.— Wages and Materials— Bridges and Tunnels ...	8,265	662	.....	6,353	3·94	3·69	1·06	0 0 7
		2	Miscellaneous... ...		1,250	.....		7·44	6·96	1·99	0 1 1
	4	1	Repairs of Stations and Buildings—Wages and Materials— Repairs of all, except Staff quarters	7,032	3,859	.....	2,836	22·97	21·48	6·16	0 3 5
		2	Repairs of Staff quarters...		337			2·01	1·82	0·54	0 0 3
	5		Maintenance by Contract—								
			Unclassified Expenditure...								
	6	1	Plantations	182	40	1,201	.....	0·23	0·22	0·06	0 0 0
		2	Tools and Plant ...		1,005			5·98	5·59	1·60	0 1 0
		3	Loss on Stores, etc. ...		338			2·01	1·88	0·54	0 0 4
			Total...	59,877	62,732	18,876	16,021	373·40	349·00	100 16	3 7 9

TABLE E—I.

Maintenance of Way.

RAILS.

Number.	Details.	Double-headed.		Bridge.	Flat footed.	Others.	Total.
		lbs.	lbs.	lbs.	lbs.		
1	Miles of rail in way, including sidings ...	43,037,064	...	...	...	...	179¾
2	Average age of rails in way at the middle of the half-year						
3	Rails inverted... {Number ... ... / Miles						
4	Proportion inverted per mile of (1) rail ...						
5	Rails renewed... {Number ... / Miles						
6	Proportion renewed per mile of (1) rail ...	Not recorded.					
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.

Number.	Details.	Wood. Transverse. Teak 10′×10″×5″	Sâl 10′×10″×5″	Jungle 10′×9″×5″	Iron-wood 10′×10″×5″	Total.	Wood. Longitudinal Sâl Sleeper 10″×5″	Iron. Pairs of Oval Bowls 95 lbs.	Iron. Sibley's wrought-iron Sub-Way
		No.	No.	No.	No.	No.	Linl. Y.	No.	Linl. Y.
1	Number of sleepers in way, including sidings	...	...	...	...	143,738	...	172,393	...
2	Average age of sleepers in way at the middle of the half-year	Not recorded.							
3	Number renewed ...								
4	Ditto per cent. of (1) ...								

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account.			1st Half of 1869.	1st Half of 1870.			
Table and Main head.	Sub-head.	——	Total.	Total.	Increase.	Decrease.	
XIV.	...	Train Mileage (D.—I. 1, page 7) ...	142,749	120,248	.....	22,501	
		Ton Mileage (M.—I. 22, page 14)...	.....	17,994,355	.....	.....	

Reference to Revenue Account.			Details.	1st Half of 1869.	1st Half of 1870.			Per Train Mile.	Per 1,000 Ton Miles.
				Total.	Total.	Increase.	Decrease.		
				Rs.	Rs.	Rs.	Rs.	Pies.	Rs. A. P.
IX. (B.) 1	1 & 2		General Superintendence— Salaries of Locomotive Superintendents and Assistants, including allowances.	10,740	2,098	1,105	.....	3·35	0 1 10
	2 to 5		Ditto of Foremen, including allowances and overtime ...						
	6		Office Expenses		7,352			11·74	0 6 7
					2,395			3·82	0 2 2
	1 & 2		Running Expenses— Wages of Drivers and Firemen, including overtime ...	23,127	18,222		3,481	29·10	1 0 9
	2	3	Fueling, cleaning, and looking after engines			.....			
		4	Contingent Expenses ...		1,424			2 27	0 1 3
					.....			...	.....
	3	1	Fuel— Coal	42,084	33,792	1,399	.....	53·96	1 14 1
		2	Coke		.....			.....	.....
		3	Patent Fuel		3,386			5·41	0 3 0
		4	Wood		2,546			4 06	0 2 3
	4	1, 2 & 3	Water		1,813			2·89	0 1 7
	5	...	Oil, Tallow, etc.		1,946			3·11	0 1 9

Locomotive Department Expenses.—(Concluded.)

Reference to Revenue Account.		Details.	1st Half of 1869.	1st Half of 1870.			Per Train Mile.	Per 1,000 Ton Miles.
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.		
			Rs.	Rs.	Rs.	Rs.	Pies.	Rs. A. P.
6	1 & 2	Maintenance and Renewals— Wages, including overtime ...	3,394	2,392	.....	1,002	3·82	0 2 2
	3	Materials	9,111	7,247	.....	1,864	11·57	0 6 5
7	...	Services of other Lines ...	.....	.....	.....	.....	...	.....
8	...	Unclassified Expenditure ...	.....	.....	.....	.....	...	.....
		Total...	88,456	84,613	2,504	6,347	135·10	4 11 8

			Total quantity.	Total quantity.	Increase.	Decrease.	Quantity per Train Miles.	Quantity per 1,000 Ton Miles.
			Tons.	Tons.	Tons.	Tons.	lbs.	lbs.
IX (B.) 3	1	Coal consumed	1,145	1,513	368	...	28	188
	2	Coke do.	...	...	...	...	...	.....
	3	Patent Fuel consumed ...	...	155	155	...	3	19
	4	Wood do.	2,151	424	...	1,727	8	53

TABLE F—I.

Locomotive Power.

Reference to Revenue Account		Description.	Passenger.	Goods.	Goods.	Tank.	Total.
Table and Main head.	Sub-head.						
—	—	Locomotives. Wheels coupled...	4 coupled.	6 coupled.	4 coupled.	4 coupled.	18
		Weight on driving axle ...	9 tons.	10½ tons.	9½ tons.	8 tons.	.....
		Total weight in steam, exclusive of tender ...	23½ tons.	29½ tons.	28 tons.	15 tons.	.....
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department ...	9	6	4	2	21
		2.—Average number of Locomotives constantly under repairs	.....	.....	.....	.....	5·0
		3.—Average number of Locomotives at work (1—2) ...	Daily train engines.		.....	.....	8
		4.—Train miles hauled by each class of Locomotives at work (3)	68,415	64,382	4,914	16,055	153,766
		5.—Average train miles hauled by each Locomotive at work (3)	.....	.....	.....	.....	.....
		Per half-year ...	7,602	10,730	1,229	8,028	27,589
		Per day	42	59	7	44	.....
		6.—Average speed between stations of trains ... Passenger ...	25 miles per hour.	Through mixed train.			.....
		Goods ...	.....	.....	.....	.....	.....
		Mixed ...	.....	18 miles per hour.	Local mixed	train.	.....
		7.—Average through speed of trains ... Passenger ...	20 miles per hour.	Through mixed train.			.....
		Goods ...	.....	.....	.....	.....	.....
		Mixed ...	.....	15 miles per hour.	Local mixed	train.	.....
		8.—Weight of coal, etc., used per train mile. *To be separated if possible among the classes of Locomotives.*	26·5	34·9	25·5	9·7	.....
		9.—Weight of wood used per train mile ...	Wood not procurable in quantity to use.				.....
		10.—Average gross weight of the trains hauled by each class of Locomotive	.....	.....	.....	.....	.....

TABLE G.

Carriage and Waggon Expenses.

Reference to Revenue Account.		Details.	1st Half of 1869.	1st Half of 1870.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.		
XIV.	...	Train Mileage (D.—I. 1, page 7).	142,749	120,248	...	22,501		
		Vehicle Mileage. Coaching (M.-I. 8, page 14)	...	837,781	...	...		
		Goods (M.-I. 14, page 14.)	...	1,124,126	...	...		
		Total...	...	1,961,907	...	...		

			1st Half of 1869.	1st Half of 1870.				
			Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	Pies.	Rs. A. P.
IX. (C.) 1	1 & 2	General Superintendence— Salaries of Superintendents and allowances ...	1,247	233	...	184	0·37	0 1 11
	3 to 5	Salaries of Foremen and allowances, including overtime						
	6	Office Expenses		619			0·99	0 5 1
				211			0·34	0 1 9
2	1 to 3	Repairs and Renewals of Vehicles and Machinery— Coaching Vehicles. Wages, including overtime ...	669	607	...	62	0·97	(a) 0 11 7
		Materials ...	7,776	2,884	...	5,392	3·81	(a) 2 13 6
	1 to 3	Goods Vehicles. Wages, including overtime ...	951	928	...	23	1·48	(b) 0 13 2
		Materials ...	9,606	4,281	...	5,325	6·83	(b) 3 12 11
3	1	Cleaning and Oiling— Labour, including wages of Oilers, etc.	...	1,113	1,113	...	1·78	0 9 1
	2	Stores	...	1,553	1,553	...	2·48	0 13 8
4	...	Unclassified Expenditure...	...	...	...	...	...	...
		Total...	20,249	11,929	2,666	10,986	19·05	6 1 3

TABLE H.

Traffic Expenses.

Reference to Revenue Account.		Details.	1st Half of 1869.	1st Half of 1870.		
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.
XIV.	.....	Train Mileage (D..I. 1, page 7) ...	142,749	120,248	...	22,501
		Vehicle Mileage Coaching (M.-I. 8, page 14)	...	837,781	...	...
		Goods (M.-I. 14, page 14)	...	1,124,126	...	...
		Total...	...	1,961,907	...	...

Traffic Expenses.—(Concluded)

Reference to Revenue Account.		Details.	1st Half of 1869.	1st Half of 1870.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	Pies.	Rs. A. P.
IX. (D.) 1	a 1 & 3	Salaries Wages, etc.— General Superintendence, including travelling allowances	18,217	3,000	2,864	...	4·79	1 8 5
	a 2 & 4	Office Establishment and Contingencies		584			0·93	0 4 9
	b	Station Staff		14,690			23·46	7 7 10
	c	Train Staff		2,807			4·48	1 6 11
2	1 to 3	Fuel, Lighting, Water, and General Stores	2,139	2,938	799	...	4·69	1 8 0
3	...	Clothing	187	472	285	...	0·75	0 3 10
4	...	Printing, Stationery, and Tickets	3,200	2,581	...	619	4·12	1 5 0
5	...	Cattle used for Traffic purposes, and delivery and collection of Goods	...	...	...	...	...	...
6	...	Miscellaneous Expenses ...	215	105	...	110	0·17	0 0 10
		Greasing Rolling Stock ...	1,659	...	...	1,659	...	...
7	1	Payments to other Lines— Hire of Vehicles ...	...	...	...	...	...	...
	2	Mileage of Foreign Stock ...	...	1,396	1,396	...	...	...
	3	Expenses at Joint Stations ...	2,052	6,250	4,198	...	2·23	0 11 5
8	...	Unclassified Expenditure ...	15	...	...	15	9·98	3 3 0
		Total...	27,694	84,823	9,542	2,403	55·60	17 12 0

TABLE J.

General Charges.

Reference to Revenue Account.		Details.	1st Half of 1869.	1st Half of 1870.			
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	Pies.
IX. (E.) 1	...	Home Expenditure	2,416	11,781	9,365	...	18·80
	1	Salaries of Indian Management including Office— Agent's Office, including travelling and other allowances	...	...	...	...	.....
	2	Auditor's Office, ditto	...	...	...	...	.....
2	3	Account's Office, ditto	...	...	...	...	.....
	4	Pay Master's Office, ditto	...	...	...	...	.....
	5	Store Department, ditto	16,313	12,773	...	...	.....
	6	Medical Department, ditto ...	...	...	...	2,060	20·39
	7	Rents of buildings and lands ...	...	...	...	...	.....
	8—10	Contingencies, Stationery, and Medicine	...	...	...	...	.....
3	...	Police (*Total Charges*)	...	1,509	...	...	2·40
4	...	Advertising	12	15	3	...	.....
5	1 to 4	Electric Telegraph— Salaries, etc.	2,921	3,344	447	...	0 03
	5	Maintenance (wages and stores) ...		27			5·37 0·04
6	...	Clearing Accounts with other Lines ...	...	...	...	...	.....
7	...	Unclassified Expenditure— Loss on Stores	...	...	...	...	.....
	...	Total...	21,694	29,449	9,815	2,060	47·03

TABLE K.

Steam Boat Service.

Reference to Revenue Account.		Details.	1st Half of 1869.	1st 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.

Reference to Revenue Account.		Details.	1st Half of 1869.	1st Half of 1870.		
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.
IX. (G.) 1	.....	Law Charges	103	20	.....	83
2	1	Compensation— For Goods lost or damaged	175	123	.....	52
	2	For Personal injury		.....		
	3	For other claims		.....		
3	.....	Rates and Taxes	5,762	8,801	3,039	.....
4	1	Contributions to Special Funds— Fire Insurance Fund	5,000	5,000	.....	.....
	2	P. W. Renewal Fund	.....	.....	.....	.....
	3	Casualty Fund	.....	.....	.....	.....
		Total...	11,040	13,944	3,039	135

ANALYSIS OF CARRYING COST.

(See Sketch Revenue Account, p. 16.)

TABLE M—I.

Definitions.

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

Approximate weight of units to be adopted in these calculations

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

Coaching—(Concld.)
A Horse ... 8·75
A Dog ... 0·20

Goods—
A Head of horned cattle ... 5·00
A head of sheep, goats, etc. ... 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 ...	38,639	36,640	0·63	0·055,125	6·70	6·755,125	0·00,816	389,777	.....	.....
2	2nd " ...	76,419	215,117	3·75	0·328,125	6·70	7·028,125	0·04,679	403,112	.....	.....
3	3rd " ...	576,232	13,446,272	21·55	1·346,875	5·925	7·271,875	0·18,522	4,199,287	.....	.....
4	4th " ...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....

Data for calculating the incidence of Carrying Cost per unit per mile, etc.—(Concluded.)

	Details.	Total Mileage of each description of Rolling Stock. (a)	Total Mileage of units of Traffic. (b)	Average Contents in units of each Vehicle. No. (c)	Average Contents in units of each Vehicle. Weight in Tons. (d)	Average weight of Rolling Stock in Tons. (e)	Total average weight including contents of each Vehicle in Tons. (f)	Ratio of weight of paying to total load. (g)	Ton Mileage. Profitable. (h)	Ton Mileage. Unprofitable. (i)	Gross Ton Mileage (k)
5	Carriage Trucks ...	3,242	3,872	1·19	0·401,025	5·0625	5·454,125	0·07,350	17,715	.....	.....
6	Horse Boxes.	20,689	18,419	0·88	0· 88,500	7·0875	7·472,500	0·05,152	154,599	.....	.....
7	Luggage Vans	122,560	6,349	...	0·051,795	5·0625	5·114,295	0·01,013	626,868	.....	.....
8	Total Coaching Vehicle Mileage ...	837,781	.....	...	.....	.....	.....	.....	.....	.....	.....
9	Passenger Engines and Tenders ...	47,459	.....	...	.....	.....	.....	.....	.....	.....	.....
10	Passenger Brake Vans	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
11	Total Coaching Ton Mileage ...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
	Goods—										
12	Goods Vehicles	1,124,126	2,493,269	...	2·218	5·675	7·893	·281	5,782,298	1,317,936	7,100,2
13	Minerals (public) ...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
14	Total Goods Vehicle Mileage ...	1,124,126	.....	...	.....	.....	.....	.....	.....	.....	.....
15	Goods Engines and Tenders ...	72,789	.....	...	.....	.....	.....	.....	.....	.....	.....
16	Goods Brakes ...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
17	Total Goods Ton Mileage	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
	Miscellaneous for Stores carried free on Revenue Account—								8,872,770	2,021,851	10,894,12
18	For Traffic Department	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
19	For Locomotive Department ...	8,588	.....	...	.....	.....	.....	.....	.....	.....	.....
20	For Engineering Department...	5,113	.....	...	.....	.....	.....	.....	.....	.....	.....
21	Total Miscellaneous Ton Mileage ...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....
22	Total Gross Ton Mileage	.....	.....	...	.....	.....	.....	.....	.....	.....	17,994,355

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)	Total.
Expenses due to Coaching	24,128	32,54	15,1			
Do. due to Goods	38,604	52,0				
Total ...	62,732	84,	4,584	14,870	11,327	87,4
			7,345	19,953	18,123	1,36,09
		618	11,929	34,823	29,449	2,23,516

Proceedings of the Madras Government, Public Works Department, 11th July 1871.

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, etc.
Maintenance (a) ...	1,627	1,682	17,488	.....	74	645	2,612	24,128	38,604	.....	38,604
Locomotive (b)... ...	2,194	2,269	23,587	.....	100	870	3,523	32,543	52,070	.....	52,070
Carriage and Waggon (c) ...	316	314	3,153	.....	18	113	670	4,584	7,345	.....	7,345
Traffic (d)	1,024	1,018	10,228	.....	58	367	2,175	14,870	19,953	.....	19,953
General (e)	780	775	7,791	.....	44	280	1,657	11,327	18,122	.....	18,123
Total...	5,941	6,058	62,247	.....	294	2,275	10,637	87,452	136,094	.....	136,094

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.
	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.
Maintenance*	5·41	5·64	5·83	.....	4·38	5·99	4·09	6 59	
Locomotive*	7·30	7·59	7·86	.....	5·92	8·07	5·52	8·89	
Carriage and Waggon*	1·05	1·05	1·05	.....	1·07	1·05	1·05	1·25	
Traffic*	3·41	3·41	3·41	.....	3·43	3·40	3·41	3·41	
General*	2·60	2·59	2·59	.....	2·61	2·60	2·62	3·10	
Total...	19·77	20·28	20·74	.....	17·41	21·11	16·69	23·24	
Cost per unit†	31·38	5·41	0·96	.....	14·63	23·99	322·24	10·48	

M—V.

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

Details.	Average Receipt per unit per mile. (a)	Actual Cost per unit per mile. (b)	Profit or Loss per unit per mile.	Proportion per cent. of profits to receipts.
	Pies.	Pies.	Pies.	Pies.
Coaching—				
1st Class	18·00	31·38	Loss 13·38	.....
2nd ,, ...	5·00	5·41	[illegible]	.....
3rd ,, ...	3·00	0·96	Profit 2·04	68·00
4th ,, ...	.....	.....	.....	.....
Carriages	24·00	14·63	Profit 9·37	39·04
Horses	15·00	23·99	Loss [illegible]	.....
Luggage	54·44	322·24	,, [illegible]	.....
Goods—				
Goods	12·91	10·48	Profit 2·43	18·82
Minerals	.....	.....	.....	.....

Sketch Revenue Account for the Specimen Analysis of Cost.

Passenger Train Mileage ... ...
Goods ,, ,, ...

Total...

Expenditure.		RS.	RS.
Maintenance of way		62,732	
LOCOMOTIVE EXPENSES—			
Superintendence ...	11,845		
Working Train ...	63,129		
Maintenance and renewals... ...	9,639		
		84,613	
CARRIAGE AND WAGGON DEPARTMENT—			
Superintendence ...	1,063		
Carriage Repairs ...	2,991		
Waggon	5,200		
Cleaning and Oiling...	2,666		
		11,929	
Traffic Department		34,823	
General Charges		29,449	
Total...		.....	2,23,546
Balance...		.....	1,59,988
Grand Total...		.....	3,83,534

Receipts.	RS.	RS.
COACHING—		
1st-Class Passengers... ...	3,435	
2nd ,, ,, ...	5,602	
3rd ,, ,, ...	1,94,473	
4th ,, ,, ...	.....	
Carriages	484	
Horses...	1,439	
Luggage, Parcels, etc. ...	10,452	
		2,15,8
MERCHANDIZE—		
Goods	1,67,649	
Minerals	.....	
		1,67,6
Grand Total...	.....	3,83,53

(Signed) C. J. SMITH, Captain, R. E.,
Dy. Constg. Engr. for Railways.

LIST OF RATES AND FARES.

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

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

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

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

	Per truck per mile. RS. A. P.
From 1 to 50 miles	0 2 6
,, 5 to 100 ,, ...	0 2 3
,, 101 to 150 ,, ...	0 2 0
,, 151 miles and upwards	0 1 9

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

LIST OF MADRAS RAILWAY RATES AND DISTANCES FROM ERODE STATION.

For Goods.

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

For Parcels.

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

For Ice, Fish, Meat, and Vegetables.

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

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

For Passengers' Luggage.

1st Class ... 82 lbs.
2nd ,, ... 25 ,,
3rd ,, ... 15 ,,
} Free.

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

For Horses, Carriages, and Dogs.

One Horse	1¼ Annas per mile.
Two Horses (if one property) ...	2¼ ,, ,,
Three Horses (do.)... ...	3 ,, ,,
Four-wheeled Carriage	2½ ,, ,,
Two- do. do.	1½ ,, ,,
Palanquin	1 ,, ,,

Dogs.	RS.	A.	P.	
1 to 50 miles	0	8	0	each.
51 ,, 100 ,, ...	1	0	0	,,
101 ,, 150 ,, ...	1	4	0	,,
151 ,, 200 ,, ...	1	8	0	,,
201 ,, 250 ,, ...	1	12	0	,,
251 ,, 300 ,, ...	2	0	0	,,
301 ,, 350 ,, ...	2	4	0	,,
351 ,, 400 ,, ...	2	8	0	,,

No. V.

Details of Capital Expenditure for the half-year ending 30th June 1870.

	RS. A. P.	RS. A. P.	RS. A. P.
LINE OPEN FOR TRAFFIC	.....	.....	66,024 13 1
Construction of Line	.....	5,948 14 1	
Earthwork	3,500 9 2		
Level crossings	176 3 11		
Fencing	2,272 1 0		
BALLAST AND PERMANENT WAY	.....	2,015 7 4	
Permanent Way	2,015 7 4		
STATIONS AND BUILDINGS	.....	37,435 9 7	
Stations	9,477 1 4		

	RS.	A.	P.
Negapatam	1,897	6	9
Trivellore	797	10	6
Kordacherry	34	1	8
Ammapettah	415	2	8
Tanjore	32	9	1
Trichinopoly ...	133	4	0
Ellamanoor	5	6	5
Kulithaly	6	5	1
Lallapettah	6	5	0
Cuttaly	8	12	1
Carroor	256	15	10
Poogaloor	940	15	6
Passoor	3,221	14	3
Codoomoody	1,453	13	4
Lightning conductors..	119	4	2
Planting trees in Station compound ...	147	3	0

				.....	.....
				25,208	8 3
WORKSHOPS				.....	.....
Boiler Shop,	Negapatam	...	16,456	15 11	
Timber Shed,	do.	...	2,013	2 7	
Furnace Shop,	do.	...	2,548	11 9	
Smith Shop,	do.	...	770	14 11	
Tool Shop,	do.	...	488	11 0	
Time Office,	do.	...	1,880	14 8	
Saw Pit,	do.	...	1,049	1 5	

Details of Capital Expenditure for the half-year ending 30th June 1870.—(Concluded.)

	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
STAFF QUARTERS		2,750 0 0		
Caroor	2,000 0 0			
Poogaloor	750 0 0			
ELECTRIC TELEGRAPH		.....	4,469 11 10	
			49,869 10 10	
Less value of Stores transferred and old material sold		.....	13,861 6 5	
			36,008 4 5	
			710 0 11	
MAINTENANCE		.....	29,306 7 9	
Establishments		.....		
Direction		15,151 6 2		
Engineering		10,962 15 2		
Stores		3,192 2 5		
LINES IN COURSE OF CONSTRUCTION... ...		.....	.....	94,693 6 10
Preliminary expenses—Survey of Southern Extension		.....	94,693 6 10	
			.....	1,70,275 9 9
WORKING STOCK		.....	1,04,228 6 4	
Locomotive Stock		.....	66,047 3 5	
Carriage and Waggon Stock ...		.....		
High-sided Open Trucks		20,368 0 2		
Covered Goods Trucks		21,508 12 11		
Salt Vans		18,931 11 9		
Travelling Crane		5,131 11 10		
Composite Carriage		9 4 0		
Passengers' Brake Vans		19 14 7		
Altering Axle Boxes of Stock ...		77 12 2		
Total...		.....	.....	3,30,993 13 8

(Signed) W. S. BETTS, *Agent.*
(,,) S. M. JOHNSON, *Assistant Controller.*
(Signed) C. J. SMITH, Captain, R. E., *Depy. Consltg. Engr. for Railways.*
(Signed) J. SMITH, *Chief Auditor.*

No. VI.

Estimate of further Expenditure on Capital Account.

	FURTHER EXPENDITURE		
	During the half-year ending 31st December 1870.	In subsequent half-years.	Total.
	RS.	RS.	RS.
Lines open for traffic for more than two years ...	65,000	1,80,000	2,45,000
Working stock	31,100	98,770	1,29,870
Locomotives 4			
Composite Carriages ... 2			
Passenger Brake Vans ... 2			
Covered Goods Waggons... 41			
Works not yet commenced and in abeyance— Southern Extension	1,00,000	1,59,00,000	1,60,00,000
Total estimated further expenditure of Capital...	1,96,100	1,61,78,770	1,63,74,870

(Signed) W. S. BETTS, *Agent.*
(Signed) C. J. SMITH, Captain, R. E., *Depy. Consltg. Engr. for Railways.*

No. XII.

LOCOMOTIVE DEPARTMENT.

Statement of Engine and Rolling Stock for the half-year ending 30th June 1870.

	Description.	Total stock authorized up to date.	Total stock constructed against authorization up to 31st December 1869.	Additions to stock during the half-year.	Total stock constructed up to 30th June 1870.	Actual stock running on the 30th June 1870.	Repairs and Renewals.				Average number undergoing repairs and renewal at any one time.
							Total number of vehicles renewed during the half-year.	Total number of vehicles repaired during the half-year.	Total number of vehicles undergoing renewal on 30th June 1870.	Total number of vehicles undergoing repairs on 30th June 1870.	
Engines.	Tank	2	2	.....	2	2		10		.....	
	Passengers	9	9	.....	9	4		51		5	6·01
	Goods	10	6	.....	6	4		37		2	
Vehicles	Composite Carriage	7	5	.....	5	5		9		.....	
	Second Class do.	2	2	.....	2	2		28		.....	
	Third Class do.	34	34	.....	34	34		32		.....	
	Passengers' Brake Van ...	8	6	.....	6	3		20		3	
	Horse Boxes	3	3	.....	3	3		1		.....	
	Carriage Trucks	1	1	.....	1	1		.....		.....	
	Goods Brake Van	4	4	.....	4	4		4		.....	
	Covered Goods Waggons ...	166	111	9	120	119		199		3	4·77
	Ballast Waggons	50	50	.....	50	49		103		2	
	Open Goods Waggons ...	50	50	.....	50	50		50		.....	
	Timber Trucks	4	4	.....	4	4		4		.....	
	Salt do.	25	5	4	9	9		8		.....	
	Gunpowder Van	1	.....	.....	.....	.....		.....		.....	
	High-sided Trucks	50	36	14	50	50		33		.....	
	Five-ton Travelling Crane ...	1	1	.....	1	1		1		.....	
	Ten ,, do. ...	1	.....	.....	.....	.....		.....		.....	

No renewals. No renewals.

Negapatam,
20th July 1870.

(Signed) W. S. BETTS,
Agent.

(Signed) C. J. SMITH, Captain, R. E.,
Deputy Consulting Engineer for Railways

No. XV.

Distribution Statement of Audited Salaries for the half-year ending 30th June 1870.

——	Capital.			Revenue.			Total.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Home Expenditure	.....			11,522	2	5	11,522	2	5
Engineering Department	80,800	15	1	29,546	9	0	1,10,347	8	1
Locomotive do.	9,085	4	0	31,756	15	5	40,842	3	5
Carriage and Waggon	.....			1,814	0	7	1,814	0	7
Traffic	.....			21,016	1	4	21,016	1	4
Agency.									
Audit.									
Accounts.	13,135	8	2	10,320	12	0	23,456	4	2
Paymasters.									
Medical.									
Stores	3,192	2	5	2,311	8	11	5,503	11	4
Electric Telegraph	.....			2,852	13	0	2,852	13	0
Total...	1,06,213	13	8	1,11,140	14	8	2,17,354	12	4

(Signed) S. M. JOHNSON,
Assistant Controller.

(,,) J. SMITH,
Chief Auditor.

(,,) C. J. SMITH, Captain, R. E.,
Dy. Consltg. Engr. for Railways.

(,,) W. S. BETTS,
Agent.

DR. *Statement of Revenue Account for half-year ending 30th June 1870.* CR.

—	Amount.	Train Miles, 120,248. Cost per Train Mile.	Percentage of Working Expenses.	Percentage of Revenue.	—	Amount.	Earnings per Train Mile.
	RS. A. P.	ANNAS.				RS. A. P.	
To Maintenance of Way and Works, (Abstract A.)	62,732 6 1	8·35	26·42	16·15	By Coaching Traffic (Abstract H.)	2,15,885 8 3	28·72
,, Locomotive Expenses (,, B.)	84,612 11 8	11·26	35·62	21·78	,, Goods do. (,, I.)	1,68,017 1 8	22·36
,, Carriage and Waggon Expenses, (Abstract C.)	11,928 12 1	1·58	5·03	3·07	,, Electric Telegraph Receipts ...	2,036 14 0	·27
,, Traffic Expenses (,, D.)	34,822 11 1	4·63	14·66	8·98	,, Sundry. do. (Abstract K.)	2,417 11 8	·32
,, General Charges (,, E.)	29,449 8 6	3·92	12·40	7·58			
,, Special and Miscellaneous, (Abstract G.)	13,944 6 8	1·85	5·87	3·59			
	2,37,490 8 1	31·59	100·00	61·15			
,, Balance	1,50,866 11 6	20·08	0·0	38·85			
Total...	3,88,357 3 7	51·67	100·00	100·00	Total...	3,88,357 3 7	51·67

NEGAPATAM,
10th September 1870.

(Signed) J. SMITH,
Chief Auditor.
(,,) F. G. HANKIN,
Examiner of Railway Accounts.

(Signed) W. S. BETTS,
Agent and Traffic Manager.
(,,) C. J. SMITH, Captain, R. E.,
Dy. Consltg. Engr. for Railways.

ABSTRACT A.

Maintenance of Way and Works.

	RS.	A.	P.	RS.	A.	P.
SALARIES, OFFICE EXPENSES, AND GENERAL SUPERINTENDENCE	.....			10,261	5	10
Engineer's salary	1,472	11	8			
Do. allowances	97	8	0			
Inspectors' salaries	4,380	9	0			
Do. allowances	270	0	0			
Office Expenses	4,040	9	2			
MAINTENANCE AND RENEWALS OF PERMANENT WAY ...	.....			44,979	13	5
Wages	21,675	12	9			
Material	23,304	0	8			
REPAIRS TO BRIDGES, ETC., WAGES AND MATERIAL ...	.....			1,912	8	6
Bridges	662	2	0			
Miscellaneous, including earthwork, etc. ...	1,250	6	6			
REPAIRS TO STATIONS AND BUILDINGS, WAGES AND MATERIALS	.....			4,195	13	9
Repairs of stations, buildings, etc. ...	3,858	10	6			
Do. of Staff quarters	337	3	3			
UNCLASSIFIED EXPENDITURE	.....			1,382	12	7
Plantations	39	12	0			
Tools and Plant	1,005	7	4			
Miscellaneous	337	9	3			
Total...	.....			62,732	6	1

Mileage Statement.

	Miles.
Lines owned by Company sanctioned, not commenced	.....
Do. do. under construction	.....
Do. do. constructed, not worked	.....
Do. do. worked by Company	168
Do. do. do. by others	.....
	168
Lines worked by Company—	
Its own	168
Foreign	.....
	168
Foreign lines worked over by Company	.....

ABSTRACT B.

Locomotive Expenses.

		Rs. A. P.	Rs. A.
General Superintendence		.....	11,845 3
Locomotive Superintendent's salary		1,773 7 3	
Do. do. allowance		324 0 0	
Foremen's salaries		6,511 9 6	
Do. allowances		631 4 3	
Do. overtime		209 9 4	
Office Expenses		2,395 4 9	
Running Expenses		.....	19,646 2
Wages of Drivers and Firemen		15,353 9 0	
Overtime and allowances		2,868 2 0	
Fuelling and cleaning Locomotives ...		1,424 7 0	
Contingent expenses		.....	
Fuel		.....	39,724 4
	Tons. Cwt. Qr.		
Coal	1,513 2 0	33,792 1 5	
Patent Fuel	155 8 0	3,385 13 0	
Wood	424 1 1	2,546 5 10	
Water		.....	1,812 10 7
Pumpers' wages		1,574 8 0	
Coal, etc., for pumping Engines		43 9 8	
Maintenance and renewals of Engines ...		194 8 11	
Oil, Tallow, Waste, etc.		.....	1,945 12 3
Oil, tallow, waste, grease, etc.		1,616 6 7	
Small stores		329 5 8	
Maintenance and Renewals of Locomotive Engines and Machinery		.....	9,638 11 6
Wages		2,282 4 5	
Overtime allowances		109 15 4	
Materials		7,246 7 9	
Total...		.....	84,612 11 8

Statement of Train Mileage.

	Miles.
Train Miles run for Traffic Department	1,20,248
Do. for Locomotive Department	.....
Do. for Maintenance	5,113
	Total... 1,25,361
	Hrs. Mins.
Hours of assisting Engines	14 52
Do. of shunting and piloting	4,749 5
Do. of miscellaneous service	1,230 10
	Total... 5,994 7

ABSTRACT C.

Carriage and Waggon Expenses.

		Rs. A. P.	Rs. A. P.
General Superintendence		.....	1,063 0 6
Salary of Locomotive Superintendent		197 0 9	
Allowances of do.		36 0 0	
Foremen's salaries		610 9 6	
Do. allowances		3 15 7	
Do. overtime		4 12 10	
Office Expenses		210 9 10	
Repairs and Renewals of Vehicles		.....	8,199 10 4
	Rs. A. P.		
Coaching Vehicles—Wages ...	575 10 9		
Overtime ...	30 13 7		
Material ...	2,384 3 1	2,990 11 5	
Goods do. —Wages ...	895 13 10		
Overtime ...	32 4 7		
Material ...	4,280 12 6	5,208 14 11	
Cleaning and oiling Carriages and Waggons ...		.....	2,666 1 3
Labour		1,112 9 0	
Stores		1,553 8 3	
Total...		.....	11,928 12 1

ABSTRACT D.

Traffic Expenses.

		Rs. A. P.	Rs. A. P.
Salaries, Wages, etc.		.....	21,081 4 8
General Superintendence		3,584 5 10	
	Rs. A. P.		
Assistant Traffic Manager	3,000 0 0		
Office Establishment	578 6 4		
Contingencies	5 15 6		
Station Staff		14,690 4 10	
Station Masters, Clerks, etc.			
Train Staff		2,806 10 0	
Guards and Assistant Guards.			
Lighting and General Stores		.....	2,937 10 9
General stores for stations, etc.		1,169 4 4	
Waggon covers and ropes		1,161 8 6	
Office and station fittings		606 13 11	
Clothing Guards, Porters, etc.		.....	471 10 6
Printing, Stationery, and Tickets		.....	2,580 8 6
Miscellaneous Expenses		.....	105 0 0
Services of other Lines		.....	7,646 8 8
Use of Erode Station, including rent		6,250 1 6	
Milcage of foreign stock		1,396 7 2	
Total...		.....	34,822 11 1

Proceedings of the Madras Government, Public Works Department, 11th July 1871.

ABSTRACT E.
General Charges.

	Rs.	A.	P.	Rs.	A.	P.
HOME EXPENDITURE	.....			11,781	3	10
Directors' fees, salaries, and rent	6,960	0	0			
Consulting Engineer and inspection of material ...	4,200	0	0			
Office expenses and medical fees	621	3	10			
SALARIES OF INDIAN MANAGEMENT	.....			12,773	5	10
Agency Department	10,461	12	11			
Stores do.	2,311	8	11			
CONTINGENCIES, INCLUDING FURNITURE STATIONERY	.....			1,162	2	9
MEDICINES	.....			325	11	3
ADVERTISING	.....			20	10	7
ELECTRIC TELEGRAPH	.....			15	1	0
Salaries	.....			3,371	5	3
Working Establishment	397	13	0			
Maintenance, labour, and stores	2,946	5	11			
	27	2	4			
Total...	.....			29,449	8	6

ABSTRACT G.
Special and Miscellaneous Expenses.

	Rs.	A.	P.
Law charges	20	4	0
Compensation goods	122	14	0
Rates and taxes	8,801	4	8
Fire Insurance and Fund	5,000	0	0
Total...	13,944	6	8

ABSTRACT H.
Coaching Traffic.

	First Class.			Second Class.			Third Class.			Total.			
	No.	Amount.		No.	Amount.		No.	Amount.		No.	Amount.		
		Rs.	A. P.		Rs.	A. P.		Rs.	A. P.		Rs.	A.	P.
Ordinary fares ...	549	3,350	1 0	4,323	5,356	11 0	361,902	1,82,367	12 0	366,774	1,91,074	8	0
Excess do. ...	34	85	2 0	217	118	14 0	435	226	6 0	686	450	3	0
Return do. ...	...	.....		6	4	0 0	56,880	10,496	12 0	56,886	10,500	12	0
Troops and Police...	...	.....		64	122	9 0	1,519	1,382	2 0	1,583	1,504	11	0
Total...	583	3,435	3 0	4,610	5,602	2 0	420,736	1,94,472	13 0	425,929	2,03,510	2	0
Passengers' Luggage											1,800	1	0
Horses, Carriages, and Dogs											2,109	15	0
Parcels											6,848	9	8
Special Trains											1,562	6	2
Post Office Parcels											54	6	5
										Total...	2,15,885	8	3

Proceedings of the Madras Government, Public Works Department, 11th July 1871.

ABSTRACT I.
Goods Traffic.

	Weight in Tons.	Rs.	A.	P.
Merchandize, General	35,034·78	1,65,722	3	6
Railway materials	241·65	1,581	11	0
Live stock	.....	345	5	0
Rent and demurrage	.....	367	14	2
Total...	.....	1,68,017	1	8

ABSTRACT K.
Sundry Receipts.

	Rs.	A.	P.	Rs.	A.	P.
Interest on Revenue Balances	.....			8	4	10
Mileage of vehicles over foreign lines	.....			318	0	1
Bungalow rents	.....			1,381	9	2
Fees on Share Transfers	.....			259	1	5
Sale of unclaimed goods, etc.	.....			10	4	0
Sale of Revenue Stores	.....			440	8	2
Maintenance of Way and Works	308	4	0	.....		
Carriage and Waggon Repairs	11	12	0	.....		
Traffic Department	87	8	2	.....		
General Charges	33	0	0	.....		
Total...	.....			2,417	11	8

Statement of Net Profits for the half-year ending 30th June 1870.

	Rs.	A.	P.		Rs.	A.	P.
To balance as per last Account ...	.....			By balance as per last Account ...	939	1	6
,, gross earnings, as per Revenue Account	3,88,357	3	7	,, ...	.....		
,, less transfer fees received in England	259	1	5	,, ...	3,88,098	2	2
Total...	.....			Total...	3,89,037	3	8

Traffic receipts paid to Government as per above statement ... ... Rs. 3,88,871 12 2
Deduct working expenses as per Revenue Account ... ... ,, 2,37,231 6 8
,, 1,51,640 5 6

(Signed) C. J. SMITH, Captain, R. E.,
Deputy Consulting Engineer for Railways.

(Signed) J. SMITH,
Chief Auditor.

	Rs.	A.	P.		Rs.	A.	P.
By payments to Government Treasury ...	.....				4,10,178	2	10
,, interest on Revenue balances ...	.....				8	4	10
					4,10,186	7	8
Deduct amount paid in in January and February belonging to previous half-year...	41,895	15	5				
Less amount erroneously included in last statement as paid in in these two months instead of being included in gross payments to the Treasury of that half-year...	133	7	3		41,762	8	2
Add payments made in July and August ...	.....				3,68,423	15	6
					21,503	5	6
Less amounts due to Madras Railway Company and Government Telegraph ...	.....				3,89,927	5	0
					1,055	8	10
Total Traffic Receipts...	.....				3,88,871	12	2
Balance, *i.e.*, outstanding amount on the 1st September 1870	.....				165	7	6
Total...	.....				3,89,037	3	8

	Rs.	A.	P.		Rs.	A.	P.
... ...	.....				3,88,871	12	2
... ...	.....						
Less transfer fees ...	2,37,490	8	1				
	259	1	5				
					2,37,231	6	8
Total...	.....				1,51,640	5	6

(Signed) W. S. BETTS,
Agent and Traffic Manager.

Examined and found correct.
(Signed) F. G. HANKIN, Major,
Examiner of Railway Accounts.

Certificate respecting the Permanent Way, etc.

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

TRICHINOPOLY,
4th October 1870.

(Signed) B. C. ST. JOHN,
Resident Engineer.

Certificate respecting the Rolling Stock.

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

TRICHINOPOLY,
5th October 1870.

(Signed) E. G. SHEWARD,
Locomotive and Carriage Supt.

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

MADRAS,
8th October 1870.

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

No. 154. ORDER THEREON, 11th July 1871, No. 1,817.

RAILWAY, No. 14.

ORDERED that these papers be forwarded to the Government of India :—

(Here enter No. 1,818, dated 11th July 1871.)

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways.

Exd. A. S. Rodgers,

Statement of Net Profits for the half-year ending 30th June 1870.

	Rs.	A.	P.	Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.
To balance as per last Account ...	.....			939	1	6	By payments to Government Treasury ...	.....			4,10,178	2	10
,, gross earnings, as per Revenue Account	3,88,357	3	7	.....			,, interest on Revenue balances	.....			8	4	10
,, less transfer fees received in England	259	1	5	3,88,098	2	2	Deduct amount paid in in January and February belonging to previous half-year...	41,895	15	5	4,10,186	7	8
							Less amount erroneously included in last statement as paid in in these two months instead of being included in gross payments to the Treasury of that half-year...	133	7	3	41,762	8	2
							Add payments made in July and August ...	.....			3,68,423	15	6
											21,503	5	6
							Less amounts due to Madras Railway Company and Government Telegraph ...	.....			3,89,927	5	0
											1,055	8	10
							Total Traffic Receipts...	.....			3,88,871	12	2
							Balance, *i.e.*, outstanding amount on the 1st September 1870	.....			165	7	6
Total...	.....			3,89,037	3	8	Total...	.....			3,89,037	3	8

	Rs.	A.	P.	Rs.	A.	P.
Traffic receipts paid to Government as per above statement	.....			3,88,871	12	2
Deduct working expenses as per Revenue Account	2,37,490	8	1			
Less transfer fees ...	259	1	5			
				2,37,231	6	8
Total...	.....			1,51,640	5	6

(Signed) C. J. SMITH, Captain, R. E.,
Deputy Consulting Engineer for Railways.

(Signed) J. SMITH,
Chief Auditor.

(Signed) W. S. BETTS,
Agent and Traffic Manager.

Examined and found correct.
(Signed) F. G. HANKIN, Major,
Examiner of Railway Accounts.

Certificate respecting the Permanent Way, etc.

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

TEICHINOPOLY, *4th October* 1870.

(Signed) B. C. Sr. JOHN,
Resident Engineer.

Certificate respecting the Rolling Stock.

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

TEICHINOPOLY, *5th October* 1870.

(Signed) E. G. SHEWARD,
Locomotive and Carriage Supt.

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

MADRAS, *8th October* 1870.

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

No. 154. ORDER THEREON, 11th July 1871, No. 1,817.

RAILWAY, No. 14.

ORDERED that these papers be forwarded to the Government of India :—

(Here enter No. 1,818, dated 11th July 1871.)

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways.

Exd. A. S. Rodgers.

Statement of Net Profits for the half-year ending 30th June 1870.

	Rs.	A.	P.	Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.
To balance as per last Account ...	.....			939	1	6	By payments to Government Treasury ...	.....	.....		4,10,178	2	10
,, gross earnings, as per Revenue Account	3,88,357	3	7	.....			,, interest on Revenue balances	.....			8	4	10
,, less transfer fees received in England	259	1	5	3,88,098	2	2	Deduct amount paid in in January and February belonging to previous half-year...	41,895	15	5	4,10,186	7	8
							Less amount erroneously included in last statement as paid in in these two months instead of being included in gross payments to the Treasury of that half-year...	133	7	3	41,762	8	2
											3,68,423	15	6
							Add payments made in July and August ...	.....			21,503	5	6
											3,89,927	5	0
							Less amounts due to Madras Railway Company and Government Telegraph ...	.....			1,055	8	10
							Total Traffic Receipts...	.....			3,88,871	12	2
							Balance, *i.e.*, outstanding amount on the 1st September 1870	.....			165	7	6
Total...	.....			3,89,037	3	8	Total...	.....			3,89,037	3	8

	Rs.	A.	P.	Rs.	A.	P.
Traffic receipts paid to Government as per above statement	.....			3,88,871	12	2
Deduct working expenses as per Revenue Account	2,37,490	8	1			
Less transfer fees ...	259	1	5			
				2,37,231	6	8
Total...	.....			1,51,640	5	6

(Signed) C. J. SMITH, Captain, R. E.,
Deputy Consulting Engineer for Railways.

(Signed) J. SMITH,
Chief Auditor.

(Signed) W. S. BETTS,
Agent and Traffic Manager.

Examined and found correct.
(Signed) F. G. HANKIN, Major,
Examiner of Railway Accounts.

Certificate respecting the Permanent Way, etc.

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

TEICHINOPOLY,
4th October 1870.

(Signed) B. C. St. JOHN,
Resident Engineer.

Certificate respecting the Rolling Stock.

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

TEICHINOPOLY,
5th October 1870.

(Signed) E. G. SHEWARD,
Locomotive and Carriage Supt.

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

MADRAS,
8th October 1870.

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

No. 154. ORDER THEREON, 11th July 1871, No. 1,817.

RAILWAY, No. 14.

ORDERED that these papers be forwarded to the Government of India :—

(Here enter No. 1,818, dated 11th July 1871.)

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways.

Exd. A. S. Rodgers.

16

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 11*th July* 1871.

No. 155.

No. 1,818.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 15.

SIR,—I am directed to forward the Revenue Account and Analysis of the traffic operations of the Great Southern of India Railway for the half-year ended 30th June 1870, prepared in accordance with the forms prescribed in the Resolution of the Government of India under date the 22nd September 1870, No. 1,605-R., and accompanied by a Memorandum by the Depvty Consulting Engineer,

I have the honour to be,
Sir,
Your most obedient servant,

Colonel, R. E.,
Secretary to Government.

Exd. A. S. Rodgors.

CONSULTING ENGINEER'S OFFICE.

Railway Department.

No. 275

From Captain C. S. Smith R.E.,
Dy. Consulting Engineer for Railways,

To Colonel A. 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 Great Southern of India Railway for the half-year ended the 30th June 1870, together with a memorandum on the same.

2. I also forward the statements, marginally noted, referred

Nos. 5, 6, 12 and 15.

referred to in para 5 of this office letter № 82 dated 18th February 1871.

G.O. № 641 dated 4th Mar 1871.

I have the honour to be
Sir
Your most obedient servant
Captain R.E.
Dy. Cons. Engineer for Dys

Madras 17th June 1871

Rw 22nd December/70 nos 492-493
" 4 January-71-100-102

E.W. 1871 Dept. for July
Rec'd. off. for July

RAILWAY DEPARTMENT.

No. 2830.

From

The Consulting Engineer
for Railways,

To

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

Dated 17th June 1871.
Received 19
Encl: 10

No. 275.

Submitting the
Revised Statement of Traffic
Analysis of the Great
Southern of India Ry for
the half-year ended
the 30th June 1870.
No. 1817-1818-11 July 1871

No. 153

No. V.

Great Southern of India

Details of Capital Expenditure for the half ye

Line open for Traffic

Construction of Line			
Earthwork			3500 9
Level Crossings			176 3
Fencing			2272 1
Ballast and Permanent Way			
Permanent way			2015 7
Stations and Buildings			
Stations			9477 1
Negapatam		1897 6 9	
Trivalore		797 10 6	
Kopadacherry		34 1 8	
Ammapettah		415 2 8	
Tanjore		32 9 1	
Puschimpoly		133 14 -	
Ellamcumbum		5 6 5	
Pulivalam		6 5 1	
Lallapettah		6 5 -	
Cuttalay		8 12 1	
Coorah		256 4 10	
Pongalore		940 15 6	
Pleasure		3221 14 3	
Godowns &c		1453 13 14	
Lightning Conductors		119 4 2	
Plantain Trees in Plastering Compounds		147 3 -	
Workshops			25208 8
Boiler Shop Negapatam		1456 15 11	
Timber Shed do		203 2 7	
Carpenter shop do		2548 11 9	
Smith shop do		770 14 11	
Tool shop do		485 11 -	
Engine shed do		1880 14 8	
Saw Pit do		1249 1 5	
Staff Quarters			2750 -
Negapatam		2000 - -	
Pongalore		750 - -	
Electric Telegraph			
Less value of Store transferred to Mechanical debit			
Maintenance			
Establishments			
Direction			15787 6
Engineering			10962 15
Stores			3192 2

Memorandum on the Traffic Analysis
Great Southern of India Railway. D
For the half-year ended 30th June 1870.

In the Returns of the
Revenue Accounts of the Great Southern
of India Railway for the half-year
ending 30th June 1870 prescribed by the
Government of India Resolution No.
1606 R dated 22nd September 1870; the
form has been adhered to as closely
as possible, but in some cases doubts
have arisen as to the method of arriving
at the results required to be exhibited.

2. Table A. It would appear
that the number of trains, train
mileage and grade ton mileage should

not

not include the trains run free on account of Revenue. The references to table D. I. and D. II seem to indicate that they should be included, but no provision is made for them only in table A. the columns Headings being simply "Coaching", "Goods", "Mixed" and "Total". Trains run free on account of Revenue have therefore been omitted from table A. In preparing the table "average composition of trains" the "average number of Vehicles in a train" and the "average number of seats provided and used" have been obtained by comparison of the vehicle mileages and Passenger mileages with the

numbers, mileages and ton mileages of trains run free on Revenue Account are not included.

6. No record has been kept of the rails inverted and renewed, or of the sleepers renewed during the half-year, and the information required in tables E. I and E. II cannot be given.

7. The particulars required for Table F. I have not been recorded.

8. The information received with regard to stores carried free on Revenue account is very imperfect and does not afford sufficient data from

from which to derive at the particulars
required to be exhibited in Table No. I.

C. Smith Captain R.E.
Dy. Cons. Engr. for Railways

P. W. 283

Great Southern of India Railway. 6

TABLE A.

GENERAL STATEMENT of Working of half-year ending 30th June 1879.

PUBLIC TRAFFIC.			Passengers or tons of goods carried. Number.	Passengers or tons of goods carried. Per cent. of total number and total tonnage.	Earnings. Amount.	Earnings. Per cent. of total earnings from Coaching and from Goods.	Per-centage of total earnings contributed by each description of traffic.
Coaching.	Passengers ...	1st Class	549	0·1	Rs. 2,435	1·6	55·6
		2nd "	4,293	1·0	5,602	2·6	
		3rd "	420,301	98·9	194,478	90·1	
		4th "	"	"	"	"	
	Miscellaneous earnings		"	"	12,375	5·7	
		Total...	425,243	100·0	215,835	100·0	
			Tons.				
Goods ...	Merchandize ...	Special	4,523	6·5	37,074	51·9	42·2
		1st Class	6,654	17·2	34,563	20·3	
		2nd "	2,167	5·3	16,415	9·8	
		3rd "	744	2·1	8,029	5·0	
		4th "	305	0·9	4,946	3·6	
		5th "	1,806	3·8	14,085	8·4	
		Special "	242	0·7	1,582	0·9	
	Railway Materials		"	"	"	"	
	Minerals		"	"	345	0·2	
	Miscellaneous earnings		...	...	100·0	100·0	
		Total...	35,276	100·0	167,649		
	Rent and Demurrage		"	"	368	7·6	1·2
	Electric Telegraph Receipts		"	"	2,037	42·2	
	Interest on Revenue balances		"	"	8	0·2	
	Mileage of Vehicles		"	"	318	6·6	
	Bungalow Rents		"	"	1382	28·7	
	Fees on share transfers		"	"	259	5·4	
	Sale of unclaimed goods		"	"	10	0·2	
	Sale of Revenue Stores		"	"	441	9·1	
		Total	"	"	4828	100·0	100·0
		Grand Total	"	"	388257		

	Coaching			Goods			Miscellaneous			Total			
	Total	Per train mile run	Per mile in work	Total	Per train mile run	Per mile in work	Total	Per train mile run	Per mile in work	Total	Per train mile run	Per mile in work	Per centage of Profits on paid up Capital &c.
Earnings	215835			167649			4828			388257	3-1-7	88	
Expenses	87452		1·9	136094		38	13944			237490	1-14-4	54	0·89
Profits	128383		20			31				150867	1-3-3	84	
Per centage of Expenses to Earnings	40		29	81		7				61			

TABLE A.—(*Continued.*)

GENERAL STATEMENT of Working of half-year ending 30th June 1870.

—	Passenger.	Goods.	Mixed.	Total.
Number of trains run			1,666	1,666
Train mileage (D. I. 1, page 7)			120,248	120,248
Gross ton mileage (M. I. 22, page 10)				17,994,355

AVERAGE COMPOSITION OF TRAINS. —	Average Number of Vehicles. Passenger trains.	Goods trains.	Mixed trains.	Average Number of Seats. Provided.	Used.	Average Weight of Trains. Freight or live load.	Dead load, exclusive of Engine and Tender.
						Tons.	Tons.
Passengers ... 1st Class			0·456	9·60	·204	0·027	3·216
2nd "			1·477	15·20	1·754	0·157	3·196
3rd "			5·792	280·42	103·23	0·455	28·393
4th "			...	"	"		
Others			1·213			0·421	3·2074
			9·456	Carrying capacity in tons. 56·12		7·011	43·0364

Goods. (*Vehicles of all kinds including brakes.*)

Open Mileage on 30th June 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			
									Fixed power.		Locomotive.	
Single.	Double.	Total.				1/100 and less.	1/101 to 1/200	1/201 to 1/300	Length.	Inclination.	Length.	Inclination.
				£	£	M. Ch.	M. Ch.	M. Ch.	M. Ch.		M. Ch.	
165	"	165	165	1,329,022	7902	8-46	9-40	11·08	Nil	Nil	1·00	1 in 100

2917

TABLE B.

STATEMENT showing in comparison the Coaching Traffic of the half-years ending 30th June 1869 and 30th June 1870

Reference to Revenue Account. Table and Main head.	Sub-head.	DETAILS.	Number. 1st Half 1869.	Number. 1st Half 1870.	Fare per Mile. 1st Half 1869.	Fare per Mile. 1st Half 1870.	Receipts. 1st Half 1869.	Receipts. 1st Half 1870.	Average Mileage. 1st Half 1869.	Average Mileage. 1st Half 1870.
					Pies.	Pies.	Rs.	Rs.		
X. (H.) 1	...	1st Class Passengers—								
		Single Journey ...	708	549			2,697	2,350		
		Excess Fares ...	34	34	18	18	121	85		
		Return Journey ...	"	"			"	"		
		Season Tickets ...	"	"			"	"		
		Troops and Police ...	1	"			8	"		
		Total...	709	549			2826	2435	59	67
1	...	2nd Class—								
		Single Journey ...	3,640	4,320			4954	6,357		
		Excess Fares ...	165	217			86	119		
		Return Journey ...	"	6	4½	5	"	4		
		Season Tickets ...	"	"			"	"		
		Troops and Police ...	80	64			139	122		
		Total...	3720	4393			5177	5602	52	50
1	...	3rd Class—								
		Single Journey ...	378,111	361,902			140,078	132,365		
		Excess Fares ...	1261	425	2	2	541	256		
		Return Journey ...	46,174	56,880			8,688	10,497		
		Season Tickets ...	"	"			"	"		
		Troops and Police ...	1844	1519			2,020	1,382		
		Total...	426,129	420,801			201,327	194,478	30	29

* Less by 1/2 than the ordinary fare. Do. Do.

TABLE B.—(*Continued.*)

STATEMENT showing in comparison the Coaching Traffic of the half-years ending 30th June 1869 and 30th June 1870.

Reference to Revenue Account.		Details.	Number.		Fare per Mile.		Receipts.		Average Mileage.	
Table and Mean head.	Sub-head.		1st Half 1869	1st Half 1870	1st Half 1869	1st Half 1870	1st Half 1869	1st Half 1870	1st Half 1869	1st Half 1870
1	...	4th Class—			Pies.	Pies.	Rs.	Rs.		
		Single Journey ...								
		Excess Fares ...								
		Return Journey ...								
		Season Tickets ...								
		Troops and Police ...								
		Total...								
2	...	Passengers' Luggage ...	Tons. 98	Tons. 79½	Two pies per ton per mile		2436	1800	77	168
3	...	Military Baggage ...								
4	1	Public... Carriages ...	No. 351	No. 62			657	434	34	72
	2	Public... Horses ...	309	207			1167	1439	79	96
	3	Public... Dogs ...	207	224			163	187	74	62
5	1	Military. Carriages ...			Vide Separate Sheet					
	2	Military. Horses ...								
	3	Military. Dogs ...								
6	...	Parcels	Tons. 2082	Tons. 221			7656	6849	70	69
7	...	Special Trains ...	No. "	No. 2			"	1562	"	"
		Post Office—								
8	1	Haulage and hire of Post Office vehicles.	"	"	"	"	"	"	"	
	2	Special Trains ...	"	"	"	"	"	"	"	
	3	Parcels... ...	"	"	4 pies per mile and per mile		"	64	"	"
		Total...					12578	12375		

4

the train mileage. Of the number of Vehicles and the number of Passengers are compared with the number of trains the results arrived at are vitiated by the fact that some trains and almost all passengers do not make a complete journey; and in the case of third class passengers the results thus obtained are absurd; the number of seats used exceeding very considerably the number provided. No purely passenger purely goods trains having been run it is impossible to give the cost of coaching per passenger train mile and of goods traffic per goods train mile,

mile, or the average number of vehicles in passenger and goods trains respectively.

3. For the same reason in table No. I the ton mileage of mixed train Engines has been divided between Coaching and Goods in proportion to the profitable ton mileage of Coaching and goods respectively.

4. Similarly ton mileage has been substituted for train mileage in table No. II in distributing the Locomotive and General expenses between Coaching and goods.

In table No. II the Special and Miscellaneous expenditure is not included.

5.

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TABLE C.

STATEMENT showing in comparison the Goods Traffic of the half-years ending 30th June 1869 and 30th June 1870

Reference to Revenue Account. Table and Main head.	Sub-head.		Quantity. 1st half of 1869. Up.	Down.	1st half of 1870. Up.	Down.	Rate per Ton Mile. 1st half of 1869	1st half of 1870	Receipts. 1st half of 1869.	1st half of 1870.	Average Mileage. 1st half of 1869.	1st half of 1870.
			Tons.	Tons.	Tons.	Tons.	Pies.	Pies.	Rs.	Rs.		
		General Merchandize—										
		~~Special Class~~										
X. (I.) 1		1st Class	5505	1816	5934	18544	12	12	44709	87074		
		2nd "	1410	477	1605	4449	14	14	16713	34563		
		3rd "	816	1335	1451	606	18	18	21443	16415		
		4th "	257	538	138	606	24	24	8027	8339		
		5th "	47	53	120	185	56	86	2502	4946		
		Special "	2114	9069	595	751	18	8	84594	114085		
		Total	10148	13286	9893	25141			279376	365722	70	62
2		Military— Stores										
3		Railway Materials for Construction	1385	1324	68	173	14	14	7473	1582		
		Minerals—										
		For the public										
6		" Company.										
		(Construction only)									13	8
		Total	1385	1324	68	173			7473	1582		
		GRAND TOTAL	11533	14692	9961	25314			286849	367304		
							Rate per animal per mile.					
		Live Stock—	No.	No.	No.	No.						
4		Horses				46						
		Cattle	93		174		Rate not calculated	List not calculated	184	245	63	74
		Sheep										
		~~Military~~ Live Stock—										
5		Horses										
		Cattle										
		Sheep										

TABLE—C.—(1).

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

Description.	Quantity.		Receipts.		Increase in Quantity.	Decrease in Quantity.	Increase in Receipts.	Decrease in Receipts.
	1st half 1869	1st half 1870.	1st half 1869	1st half 1870				
	Tons.	Tons.	Rs.	Rs.	Tons.	Tons.	Rs.	Rs.
Area Nuts	971	1311	6976	7377	340		401	
Beer and Wine	11	4	1396	599		7		797
Cloth	182	244	5190	5407	62		217	
Cotton	12	20	250	267	8		17	
Curry Stuffs	593	479	12566	4944		111	2423	
Firewood	43	29	87	32		14		34
Fruit	520	664	3450	3893	134		2443	
Furniture	111	24	772	395		37		377
Grain of all kinds	10352	17359	21914	63027	7007		31113	
Granite Stones	1728	963	13151	12984		765		167
Hay and Straw	44	16	59	32		28		27
Hides	174	305	4720	6772	129		2052	
Indigo	13	9	271	66		4		205
Lac-dye	3	9	33	112	6		79	
Metals	350	113	4152	1761		237		2411
Oil and Ghee	209	303	2376	5023	94		2647	
Oil Cakes	538	545	1693	2362	7		669	
Salt	3827	2981	13119	15645		846		2474
Seeds of all kinds	740	1523	5680	14205	793		8525	
Silk	1	"	135	2		1		133
Sugar	135	117	1253	1340		16	82	
Soap Sand	371	175	2266	1021		196		1235
Sundries	1322	1456	13361	15350	134		1989	
Timber	801	625	5058	1557		176		3501
Tobacco	181	126	3987	2320		55		1667
Toddy	"	"	"	"				
Treasure	17	"	1594	"		17		1594
Total	28214	29417	127984	166024	8714	2561	52662	14622

TABLE D.

Statement of mileage maintained.*

Reference to Revenue Account.		Details.	1st half of 1869			1st half of 1870				
Table and Main head.	Sub-head.		Departmentally.	By Contract.	Total.	Departmentally.	By Contract.	Total.	Total Increase.	Total Decrease.
IX. (A.)	...	1. Mean miles of line maintained. Single...	168	"	168	168	"	168	"	"
		2. Mean miles of line maintained. Double...	"	"	"	"	"	"	"	"
		3. Mean miles of line maintained. Total ...	168	"	168	168	"	168	"	"
		4. „ Sidings maintained, Total.	11¾	"	11¾	11¾	"	11¾	"	"
		5. „ Single Track Total including Sidings.	179¾	"	179¾	179¾	"	179¾	"	"

* From Revenue Funds.

TABLE D—I.

Statement of Train Mileage.

	Details.	Train Miles run for			Hours of		
		Traffic Department.	Locomotive Department.	Maintenance Department.	Assisting Engines.	Shunting, Piloting, &c.	Miscellaneous Services.
	Reference to Revenue Account.	XIV. 1.	XIV. 2.	XIV. 3.	XIV. 4.	XIV. 5.	XIV. 6.
1	1st half, 1870. ... Passenger.	"	"	"	"	"	"
	1st half, 1870. ... Goods ...	"	"	5113	14-52	4749-5	1230-10
	1st half, 1870. ... Mixed ...	120248	"				
	Total ...	120248	"	5113	14-52	4749-5	1230-10
2	1st half, 1869 ... Passenger.	"	"	"	"	miles	Cubic yards miles
	1st half, 1869 ... Goods ...	"	"	"	"	9938	1047
	1st half, 1869 ... Mixed ...	142749	"	"	"	9938	1047
	Total ...	142749	"	"	"		
3	Increase in 1870. Passenger.	"	"	"	"	"	"
	Increase in 1870. Goods ...	"	"	5113	14-52	"	"
	Increase in 1870. Mixed ...	"	"				
	Total ...	"	"	5113	14-52	"	"
4	Decrease in 1870. Passenger.	"	"	"	"	"	"
	Decrease in 1870. Goods ...	"	"	"	"	"	"
	Decrease in 1870. Mixed ...	22501	"	"	"	"	"
	Total ...	22501	"	"	"	"	"

TABLE E.

Maintenance of Way Works and Stations.

RAILS.

Reference to Revenue Account. Table and Main head.	Sub-head.		1st Half of 1869 Total.	1st Half of 1870 Total.	Increase.	Decrease.
XIV.	...	Train Mileage (D. I. 1, page 4) ...	142749	120248	"	22501
		Ton Mileage (M. I. 22, page 13) ...	"	7994262		

		DETAILS.	1st Half of 1869 Total.	1st Half of 1870 Total.	Increase.	Decrease.	Per mile of line maintained. D. 3.	Per mile of Track including Sidings. D. 5.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IX. (A.) 1		SUPERINTENDENCE—								
	1 & 2	Engineers' salaries and allowances ...		1570			9·35	8·76	2·51	0-1-6
	3 to 5	Inspectors' and Platelayers' salaries and allowances, including overtime ...	10164	1451	97		27·69	25·88	7·43	0-4-2
	6	Office expenses		4040			24·06	22·48	6·45	0-3-7
2		MAINTENANCE AND RENEWAL OF PERMANENT WAY—								
	1	Wages	28508	21676	"	6832	129·02	120·60	34·61	1-8-8
	2	Materials	5726	23304	17578	"	128·71	129·66	37·21	1-4-8
3		REPAIRS OF BRIDGES, &c. WAGES AND MATERIALS—								
	1	Bridges and Tunnels ...	8265	662		6858	3·94	3·69	1·06	0-0-7
	~~2~~	~~Tunnels~~		"	"	"	"	"	"	"
	~~2~~ 3	Miscellaneous ...		1250			7·44	6·96	1·99	0-1-1
4		REPAIRS OF STATIONS AND BUILDINGS : WAGES AND MATERIALS—								
	1	Repairs of all except Staff Quarters ...	1032	3854	"	2836	22·97	21·48	6·16	0-0-5
	2	Repairs of Staff Quarters		337			2·01	1·82	0·51	0-0-3
5	...	MAINTENANCE BY CONTRACT—	"	"						
		UNCLASSIFIED EXPENDITURE—								
6	1	Plantations	182	40	1201	"	0·23	0·22	0·06	0-0-0
	2	Tools and Plant ...		1005			5·98	5·59	1·60	0-1-9
	3	Loss on Stores, &c. ...		338			2·01	1·88	0·54	0-0-4
		TOTAL ...	50877	62732	18876	16021	373·40	349·00	100·16	0-7-9

If done Departmentally.

TABLE E—I.

Maintenance of Way.

RAILS.

27

Number.	DETAILS.	Double-headed.		Bridge.	Flat-footed.	Others.	Total.
		lbs.	lbs.	lbs.	lbs.		
1	Miles of rail in way, including sidings	420870 64	"	"	"	"	179 2/4
2	Average age of rails in way at the middle of the half-year ...	Not recorded.					
3	Rails inverted { Number ... / Miles ...						
4	Proportion inverted per mile of (1) rail						
5	Rails renewed { Number ... / Miles ...						
6	Proportion renewed per mile of (1) rail						
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.

Number.	DETAILS.	Wood. Transverse. Teak 10′×10″×5″	Sal 10′×10″×5″	Jungle 10′×9″×5″	Iron-wood 10′×10″×5″	Total.	Wood. Longitudinal Sal Sleeper 10″×5″	Iron. Pairs of Oval Bowls 95 lbs.	Iron. Sibley's Wrought-iron Sub-Way.
		No.	No.	No.	No.	No.	Linl. Yds.	No.	Linl. Yds.
1	Number of sleepers in way, including sidings ...	"	"	"	"	142728	"	172393	"
2	* Average age of sleepers in way at the middle of the half-year ...	Not recorded.							
3	Number renewed ...								
4	Ditto. per cent. of (1)...								

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account. Table & Main head.	Sub-head.		1st Half of 1869 Total.	1st Half of 1870. Total.	Increase.	Decrease.	
XIV.	...	Train Mileage (D. I. 1, p. 7) ...	142749	120248	"	22501	
		Ton Mileage (M. I. 2, p. 16) ...	"	1799435	"	"	

Reference to Revenue Account. Table & Main head.	Sub-head.	DETAILS.	1st Half of 1869 Total.	1st Half of 1870. Total.	Increase.	Decrease.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	Pies As.	Rs.
		General Superintendence—						
IX. (B.) 1	1 & 2	Salaries of Locomotive Superintendents and Assistants, including allowances ...	10740	2098			8·26	0-1-10
	2 to 5	Ditto of Foremen, including allowances and overtime ...		7352	1105	"	11·74	0-6-7
	6	Office Expenses		2395			3·82	0-2-2
		Running Expenses—						
2	1 & 2	Wages of Drivers and Firemen, including overtime ...	23127	18222		3481	29·10	1-0-2
	3	Fuelling, cleaning and looking after Engines		1424	"		2·27	0-1-3
	4	Contingent Expenses ...		"				
		Fuel—						
3	1	Coal	42084	33792			53·96	1-14-1
	2	Coke		"			"	"
	3	Patent Fuel		2386	1399	"	5·41	0-3-"
	4	Wood		2546			4·06	0-2-3
				1813			2·89	0-1-7
4	1, 2 & 3	Water—		1946			3·11	0-1-9
5	...	Oil, Tallow, &c.—						
		Maintenance and Renewals—						
6	1 & 2	Wages, including overtime ...	3394	2392	"	1002	3·82	0-2-2
	3	Materials	9111	7247	"	1864	11·57	0-6-5
7	...	Services of other Lines—	"	"	"	"	"	"
8	...	Unclassified Expenditure—	"	"	"	"	"	"
		Total...	88456	84613	2504	6347	135·10	4-11-3

Reference to Revenue Account. Table & Main head.	Sub-head.		Total Quantity.	Total Quantity.	Increase.	Decrease.	Quantity per Train Mile.	Quantity per 1,000 Ton Miles.
			Tons.	Tons.	Tons.	Tons.	lbs.	lbs.
IX. (B.) 3	1	Coal consumed	1145	1513	368	"	28	188
	2	Coke do.	"	"	"	"	"	"
	3	Patent Fuel consumed ...	"	155	155	"	3	19
	4	Wood do. ...	2151	424	"	1727	8	53

TABLE F—1.

Locomotive Power.

Reference to Revenue Account. Table & Main head.	Sub-head.	DESCRIPTION.	Passenger.	Goods Passenger.	Goods.	Tank.	Total.
		Locomotives ... Wheels coupled ...	4 coupled	4 coupled	4 coupled	4 coupled	18
		Locomotives ... Weight on driving axle ...	9 tons	10½ tons	9½ tons	8 tons	
		Locomotives ... Total weight in steam, exclusive of tender ...	28½ tons	29½ tons	28 tons	15 tons	
XII.	...	1.—Number of Locomotives erected and made over to Locomotive Department	4	6	4	2	21
		2.—Average number of Locomotives constantly under repairs ...	"	"	"	"	6·01
		3.—Average number of Locomotives at work (1—2)	Daily train engines				8
		4.—Train miles hauled by each class of Locomotives at work (3)...	68415	64382	4914	16055	153766
		5.—Average train miles hauled by each Locomotive at work (3)	7602	10730	1229	8028	27589
		Per half-year ...	42	59	7	44	
		Per day	25 miles per hour	Through Mixed train.			
		6.—Average speed between stations of trains. Passenger ...	"	"	"	"	"
		6.—Average speed between stations of trains. Goods ...		18 miles per hour	Local Mixed train		
		6.—Average speed between stations of trains. Mixed ...	"	20 miles per hour	Through Mixed train.		
		7.—Average through speed of trains .... Passenger ...	"	"	"	"	"
		7.—Average through speed of trains .... Goods ...		15 miles per hour	Local Mixed train		
		7.—Average through speed of trains .... Mixed ...	"				
		8.—Weight of coal, &c., used per train mile ... (*To be separated if possible among the classes of Locomotives.*)	26·5	34·9	25·5	9·7	
		9.—Weight of wood used per train mile ... (*To be separated if possible among the classes of Locomotives.*)	Wood not procurable in quantity to use				
		10.—Average gross weight of the trains hauled by each class of Locomotive	"	"	"	"	"

TABLE G.

Carriage and Wagon Expenses.

Reference to Revenue Account.		Details.	Half of 1869	1st Half of 1870.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	Pies	Rs.
XIV.	...	Train Mileage (D. I. 1, p. 7)	142749	120248	"	22501		
		Vehicle Mileage: Coaching (M. I. 8, p. 16) ...	"	837781	"	"		
		Vehicle Mileage: Goods (M. I. 14, p. 16) ...	"	1124126	"	"		
		Vehicle Mileage: Total		1961907	"	"		
		General Superintendence—						
IX. (C.) 1.	1 & 2	Salaries of Superintendents and allowances ...		233			0·27	0-1-11
IX. (C.) 1.	3 to 5	Salaries of Foremen and allowances, including overtime	1247	619	"	184	0·99	0-5-1
IX. (C.) 1.	6	Office Expenses		211			0·34	0-1-9
		Repairs and Renewals of Vehicles and Machinery—						
2	1 to 3	Coaching Vehicles: Wages including overtime ...	669	607	"	62	0·97	(a) 0-11-7
2	1 to 3	Coaching Vehicles: Materials ...	7776	2384	"	5392	3·81	(a) 2-13-6
2	1 to 3	Goods Vehicles: Wages, including overtime ...	951	928	"	23	1·48	(b) 0-13-2
2	1 to 3	Goods Vehicles: Materials ...	9606	14281	"	5325	6·83	(b) 3-12-11
		Cleaning and Oiling—						
3	1	Labor, including wages of oilers, &c.	"	1113	1113	"	1·78	0-9-1
3	2	Stores	"	1553	1553	"	2·48	0-12-8
4	...	Unclassified Expenditure—	"	"	"	"	"	
		Total ...	20249	11929	2666	10986	14·05	6-1-3

TABLE H.

Traffic Expenses.

Reference to Revenue Account.		Details.	Half of 1869	1st Half of 1870.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	Pies	Rs.
XIV.	...	Train Mileage (D. I. 1, p. 7) ...	142749	120248	"	22501		
		Vehicle Mileage: Coaching (M. I. 8, p. 16) ...	"	837781	"	"		
		Vehicle Mileage: Goods (M. I. 14, p. 16) ...	"	1124126	"	"		
		Vehicle Mileage: Total		1961907	"	"		
		Salaries, Wages, &c. ...						
IX. (D.) 1.	a (1 & 3)	General Superintendence, including travelling allowances		3000			4·79	1-3-5
IX. (D.) 1.	a (2 & 4)	Office Establishment and Contingencies	18217	584	2864	"	0·93	0-4-9
IX. (D.) 1.	b	Station Staff		14690			23·467	7-7-10
IX. (D.) 1.	c	Train Staff		2807			4·481	1-6-11
2	1 to 3	Fuel, Lighting, Water and General Stores ...	2139	2935	799	"	4·69	1-8-0
3	...	Clothing	137	472	286	"	0·75	0-3-10
4	...	Printing, Stationery and Tickets	2200	2581	"	619	4·12	1-5-4
5	...	Cattle used for Traffic purposes, and Delivery and Collection of Goods ...	"	"				
6	...	Miscellaneous Expenses ... Grazing, Tolling & Tack	215	105	"	110	0·17	0-0-10
		Payments to Services of other Lines—	1659	"		1659		
7	1	Hire of Vehicles ...	"	"	"	"		
7	2	Mileage of Foreign Stock ...	"	1396	1396	"	2·23	0-11-6
7	3	Steamers & Steam Harbour Use of Stations	2032	6250	4198	"	9·98	3-2-0
8	...	Unclassified Expenditure ...	15	"	"	15	"	
		Total	27684	34823	9542	2403	55·60	17-12-0

TABLE J.

General Charges.

Reference to Revenue Account.		DETAILS.	1st half of 1869.	1st half of 1870.			
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	Pies
IX. (E.) 1	...	Home Expenditure	2,416	11,781	9,365	"	18·80
		Salaries of Indian Management—including Office					
2	1	Agent's Office, including travelling and other allowances, ...					
	2	Auditor's Office, ditto. ...					
	3	Account's Office, ditto. ...					
	4	Pay Master's Office, ditto. ...	16342	12778	"	2060	20·39
	5	Store Department, ditto. ...					
	6	Medical Department, ditto. ...					
	7	Rents of buildings & lands					
	8–10	Contingencies, Stationery, and Medicine		1509			2·40
3	...	Police (*Total Charges*) ...	"	"	"	"	"
4	...	Advertising	12	15	3	"	0·02
		Electric Telegraph—					
5	1 to 4	Salaries, &c.	2924	3344			5·37
	5	Maintenance (~~labour~~ wages and stores)		27	447	"	0·04
6	...	Clearing Accounts with other Lines					
7	....	Unclassified Expenditure ...					
		Loss on Stores					
		Total ...	21694	29449	9815	2060	47·02

30

TABLE K.

Steam Boat Service.

Reference to Revenue Account.		DETAILS.	1st half of 1869.	1st 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.

			163	20			83
IX. (G.) 1.	.....	Law Charges—					
2	1	Compensation— For Goods lost or damaged	175	123	"	52	
	2	~~Claims for Goods, &c.~~ For Personal injury	5762	8801	3039	"	
	3	For other claims					
3	...	Rates and Taxes—					
		Contributions to Special Funds—					
4	1	Fire Insurance Fund	5000	5000	"	"	
	2	P. W. Renewal Fund	"	"	"	"	
	3	Casualty Fund					
		Total ...	11040	13944	3039	135	

ANALYSIS OF CARRYING COST.

(*See Sketch Revenue Account, p.*)

TABLE M.—I.

Definitions.

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

Approximate weight of units to be adopted in these calculations

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

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

	DETAILS.	Total Mileage of each description of Rolling Stock. (a)	Total Mileage of units of Traffic. (b)	Average Contents in units of each Vehicle. No. (c)	Average Contents in units of each Vehicle. Weight in Tons. (d)	Average weight of Rolling Stock in Tons. (e)	Total average weight including contents of each Vehicle in Tons. (f)	Ratio of weight of paying to total load. (g)	Ton Mileage. Profitable. (h)	Ton Mileage. Unprofitable. (i)	Gross Ton Mileage. (k)
	COACHING—										
1	1st Class ...	38639	2664	0·62	0·044125	6·70	6·755125	0·00816	384777	"	"
2	2nd " ...	76419	215117	2·75	0·328125	6·70	7·028125	0·04679	402112	"	"
3	3rd " ...	576232	1244627	2·158	0·346875	5·925	7·271875	0·18522	4190287	"	"
4	4th "	"	"	"	"	"	"	"	"	"	"
5	Carriage Trucks ...	8242	3872	1·19	0·401025	5·0625	5·464125	0·07380	17715	"	"
6	Horse Boxes.	20689	18419	0·98	0·35500	7·0875	7·472500	0·05152	154599	"	"
7	Luggage Vans ...	122560	6348	"	0·051795	5·0625	5·114295	0·01013	626808	"	"
8	Total Coaching Vehicle Mileage ...	837781	"	"	"	"	"	"	"	"	"
9	Passenger Engines & Tenders ...	47459	"	"	"	"	"	"	"	"	"
10	Passenger Brake-vans	"	"	"	"	"	"	"	"	"	"
11	Total Coaching Ton Mileage ...	"	"	"	"	"	"	"	5732298	1317936	7100234

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

	DETAILS.	Total Mileage of each description of Rolling Stock. (a.)	Total Mileage of units of Traffic. (b.)	Average Contents in units of each Vehicle. No. (c.)	Average Contents in units of each Vehicle. Weight in Tons. (d.)	Average weight of Rolling Stock in Tons. (e.)	Total average weight including contents of each Vehicle in Tons. (f.)	Ratio of weight of paying to total load. (g.)	Ton Mileage. Profitable. (h.)	Ton Mileage. Unprofitable. (i.)	Gross Ton Mileage. (k.)
	GOODS—										
13	Goods Vehicles ...	1124126	2492269	"	2·218	5·675	7·893	·281	8872770	"	"
13	* Minerals (public).	"	"	"	"	"	"	"	"	"	"
14	Total Goods Vehicle Mileage ...	1124126	"	"	"	"	"	"	"	"	"
15	Goods Engines and Tenders...	72789	"	"	"	"	"	"	"	"	"
16	Goods Brakes.	"	"	"	"	"	"	"	"	"	"
17	Total Goods Ton Mileage ...	"	"	"	"	"	"	"	8872770	2021251	10894021
	MISCELLANEOUS FOR STORES CARRIED FREE ON REVENUE ACCOUNT—										
18	For Traffic Department	"	"	"	"	"	"	"	"	"	"
19	" Locomotive Department	8688									
20	" Engineering Department	5118									
21	Total Miscellaneous Ton Mileage ...	"	"	"	"	"	"	"	"	"	"
22	TOTAL GROSS TON MILEAGE										17994242

Sketch Revenue Account for the Specimen Analysis of Cost.

Passenger Train Mileage ...

Goods " " ...

TOTAL ...

EXPENDITURE.	Rs.	Rs.	RECEIPTS.	Rs.	Rs.
MAINTENANCE OF WAY ...	62722		COACHING—		
LOCOMOTIVE EXPENSES—			1st Class Passengers ...	2486	
Superintendence ...	1184		2nd " " ...	5602	
Working Passenger Train ...	60129		3rd " " ...	194478	
Maintenance and Repairs ...	11939	84252	4th " " ...		
CARRIAGE AND WAGON DEPARTMENT—			Carriages ...	484	
Superintendence ...	1063		Horses ...	1429	
Carriage Repairs ...	2991		Luggage, Parcels, &c. ...	10452	
Wagon	5209				215886
Cleaning & Oiling Carriages, &c.	2666		MERCHANDIZE—		
		11929	Goods	167649	
TRAFFIC DEPARTMENT	24822		Minerals		
GENERAL CHARGES	29449				167649
TOTAL...		223546			
BALANCE...		159988			
GRAND TOTAL...		383534	GRAND TOTAL...		383534

Calcutta Capt. RE
Deputy Consg Engr for Railways.

No. Gr. 2830/71

Great Southern of India Railway.

List of Rates and Fares.

Troops and Police.

Troops - Officers on duty pay 2nd Class fare for 1st Class accommodation and non-Commissioned Officers and Soldiers travel 2nd Class on payment of the lowest fare -

Police - Policemen are conveyed on payment of the ordinary fares -

Special trains.

Special trains are run at a charge of 3 Rs a mile when consisting of an engine a carriage and break 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 ½ anna per mile - Sheep in wagon loads of 50 or any less number and cattle for slaughter in wagon loads of 8 or any less number will be conveyed as under -

	Per truck per mile
From 1 to 60 miles —	2 — 6
" 61 to 100 "	2 — 3
" 101 to 150 "	2 — 0
" 151 & upwards	1 — 9

Sheep sent singly are charged for at the rate of 8 annas for distances not exceeding 50 miles, one rupee for distances from 51 to 100 miles, and four annas additional for every 50 miles or portion of 50 miles above 100 miles.

Dealers horses are conveyed in "wagons" by "Goods" train at 3 annas per mile per truck load of 6 or any less number.

Great Southern of India Railway.

LIST OF MADRAS RAILWAY RATES & DISTANCES FROM ERODE STATION.

For Goods.

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

For Parcels.

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

For Ice, Fish, Meat, and Vegetables.

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

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

For Passenger's Luggage.

1st Class 82 lbs.
2nd „ 25 lbs.
3rd „ 15 lbs.
} Free.

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

For Horses, Carriages, and Dogs.

One horse	...	1½ annas per mile.
Two horses (if one property)	...	2¼ „ „
Three horses(„)	...	3 „ „
Four wheeled carriage	...	2½ „ „
Two „ „	...	1½ „ „
Palanquin	...	1 „ „

		Rs.	A.	
Dogs. ...	1 to 50 miles ...	... 0	8	each.
	51 „ 100 „ ...	... 1	0	„
	101 „ 150 „ ...	... 1	4	„
	151 „ 200 „ ...	... 1	8	„
	201 „ 250 „ ...	... 1	12	„
	251 „ 300 „ ...	... 2	0	„
	301 „ 350 „ ...	... 2	4	„
	351 „ 400 „ ...	... 2	8	„

Distances from Erode Station.

Amboor ...	130	Madras ...	243	Sholingur ...	18
Arconum ...	201	Mailputty ...	138	Shoranoor ...	1
Arcot ...	178	McDonald's Choultry	28	Somanoor ...	43
Avady ...	230	Moodanoor ...	254	Sunkerydroog ...	13
Avenashy ...	32	Moorapoor ...	77	Tanoor ...	150
Bangalore ...	196	Muddikurry ...	65	Theruvellum ...	17
Beypore ...	163	Mullapooram ...	63	Tinnanoor ...	22
Camalapoor ...	334	Naggery ...	218	Tiroor ...	14
Chinnamapett ...	207	Nundalore ...	285	Tirupatty ...	24
Codgody ...	184	Palghaut ...	89	Tiruttany ...	2
Coloor ...	267	Perpengady ...	155	Tripatore ...	19
Coimbatore ...	59	Peramdurai ...	9	Trivellore ...	21
Colar Road ...	155	Poody ...	264	Vaniambaddy ...	12
Conjeeveram ...	81	Purley ...	95	Vellore ...	16
Coopum ...	133	Puttamby ...	121	Wallaur ...	7
Cootipuram ...	135	Puttoor ...	225	Weraperumbu ...	17
Cuddapah ...	329	Rajampett ...	288	Wettiveddy ...	30
Cudumalathoor ...	214	Reddypully ...	280	Wuthalur ...	2
Coriattum ...	148	Salem ...	57	Yerrapeeda ...	34
Jolarpett ...	111	Sumbputty ...	52		
Luckaly ...	104	Shevaroy Hills ...	51		

Great Southern of India Railway.

Estimate of further expenditure on Capital Account –

	Further Expenditure		
	During the half year ending 31st Dec 1870	In Subsequent half years	Total
	Rs	Rs	Rs
Lines open for Traffic for more than two years	65,000	180,000	2,45,000
Working Stock	31,100	98770	1,29,870
Locomotives 4			
Composite Carriages 2			
Passenger Break Vans 2			
Covered Goods Waggons 41			
Works not yet commenced and in abeyance Southern Extension	100,000	159,00,000	160,00,0
Total estimated further Expenditure of Capital Rs	196,000	161,78,770	163,74,87

Audited and Passed

Agent

Offices Cash[illegible]

Dy Chief Engr to Railways

Great Southern & Indian Railway

Locomotive Department

Statement of Engine and Rolling Stock for the half Year ending 30th June 1870

Description	Total Stock authorized to date	Total Stock constructed against Authorizations up to 31st December 1869	Additions to Stock during the half year	Total Stock constructed up to 30th June 1870	Actual Stock up to 30th June 1870	Repairs and renewals: Total Number of Vehicles examined during the half year	Total Number of Vehicles requiring to be taken out of Traffic for repairs at 30th June 1870	Total Number of Vehicles undergoing repairs and renewals on 30th June 1870	Total Number of Vehicles awaiting repairs and renewals on 30th June 1870	Average number undergoing repairs and renewals at any one time
Engines: Tank	2	2	"	2	2	"	12	"	"	6.01
Passengers	9	9	"	9	4	"	31	"	5	
Goods	10	6	"	6	4	"	3	"	2	
Vehicles: Composite Carriage	7	5	"	5	5		9		"	
2nd Class	2	2	"	2	2	"	28		"	
3rd "	34	34	"	34	34		22		"	
Passengers Brake Van	8	6	"	6	3		20		3	
Horse Boxes	3	3	"	3	3		1		"	
Carriage Trucks	1	1	"	1	1				"	
Goods Brake Van	4	4	"	4	4		4		"	
Covered Goods Waggons	166	111	7	120	118		177		2	4.17
Ballast "	50	50	"	50	48		103		2	
Open goods "	50	50	"	50	50		50		"	
Timber Trucks	4	4	"	4	4	No Renewals	4	No Renewals	"	
Salt "	25	5	4	9	9		8		"	
Gunpowder Van	1	"	"	"	"		"		"	
High sided Trucks	50	36	4	50	50		33		"	
Five tons travelling Crane	1	1	"	1	1		1		"	
Do	1	"	"	"	"		"		"	

Loco Dept Perth 1st July 1870

Engr Gen Office

Adelaide 1st July 1870

Engineer-in-Chief

Chief Engr

Asst Engr

Asst Engr in Charge

No XV

Great Southern of India Railway

Distribution Statement of Audited Salaries for the half year ending 30th June 1870

27

	Capital			Revenue			Totals		
Home Expenditure				11522	2	5	11,522	2	5
Engineering Department	80800	13	1	29546	19	11	110,347	8	1
Locomotive do	9085	4	0	21756	15	5	40,842	3	5
Carriage and Waggons				1814	0	7	1814	0	7
Traffic				21016	1	4	21,016	1	4
Agency									
Audit									
Accounts	13135	8	2	10320	12	0	23,456	4	2
Paymasters									
Medical									
Stores	3192	2	5	2311	8	11	5503	11	4
Electric Telegraph				2852	13	0	2852	13	0
	106213	13	8	111,140	14	8	217,354	12	4

W. Johnson.
Asst. Controller

James Smith
Chief Auditor

Allan Scott.
Agent

A. Cousins Capt. R.E.
Dy. Cons. Engr. for Railways

Dr.

Great Southern of India Railway.

Cr.

STATEMENT of Revenue Account for half year ending 30th June 1870.

	Amount.			Train Miles 1,20,248 Cost per train Mile.	Per centage of working expenses.	Per centage of Revenue.		Amount.			Earnings per train Mile.
				Annas.							
To Maintenance of Way & Works (A)	62,732	6	1	8.35	26.42	16.15	By Coaching Traffic (Abstract H)	2,15,885	8	3	28.72
„ Locomotive expenses (B)	84,612	11	8	11.26	35.62	21.78	„ Goods Do. (Do. I)	1,68,017	1	8	22.36
„ Carriage & Waggon expenses (C)	11,928	12	1	1.58	5.03	3.07	„ Electric Telegraph Receipts ...	2,036	14	0	.27
„ Traffic expenses (D)	34,822	11	1	4.63	14.66	8.98	„ Sundry Do. (Abstract K)	2,417	11	8	.32
„ General Charges (E)	29,449	8	6	3.92	12.40	7.58					
„ Special and miscellaneous (G)	13,944	6	8	1.85	5.87	3.59					
	2,37,490	8	1	31.59	100.00	61.15					
To Balance... ...	1,50,866	11	0	20.08	0. 0	38.85					
	3,88,357	3	7	51.67	100.00	100.00		3,88,357	3	7	51.67

Negapatam,
10th September 1870.

Chief Auditor.

Government Examiner of Railway Accounts.

Agent and Traffic Manager.

Acting Consulting Engineer for Railways.

ABSTRACT A

Maintenance of Way and Works.

Salaries Office Expenses and General Superintendence			
Engineer's Salary	...	...	
Do. Allowances	...	1,172	
Inspectors' Salaries	...	57	
Do. Allowances	...	4,390	
Office Expenses	...	270	
	...	4,040	
Maintenance and Renewals Permanent Way ...		...	
Wages	...	21,675	
Material	...	23,204	
Repairs to Bridges &c. Wages and Material ...		...	
Bridges ...	...	662	
Miscellaneous, including earth work &c.	...	1,250	
Repairs to Stations and Buildings. Wages and Materials ...		...	
Repairs of Stations, Buildings &c.	...	3,858	
Do. of Staff Quarters	...	317	
Unclassified Expenditure		...	
Plantations ...	...	39	
Tools and Plant	...	1,005	
Miscellaneous ...	...	337	

Mileage Statement.

Lines owned by Company Sanctioned not commenced	...	Miles.
do. do. under construction	...	—
do. do. constructed not worked	...	—
do. do. do. worked by Company	...	1½
do. do. do. do. by others	...	—
Lines worked by Company		
Its own	...	1½
Foreign	...	—
Foreign lines worked over by Company ...	...	1½

ABSTRACT B

Locomotive Expenses.

General Superintendence	...	...	...	11,845	3 1
Locomotive Superintendent's Salary	...	1,773	7 3		
Do. Allowance	...	324	0 0		
Foremen's Salaries ...	...	6,511	9 6		
Do. Allowances ...	...	631	4 3		
Do. Overtime ...	...	209	9 4		
Office Expenses ...	...	2,395	4 9		
Running Expenses	...	...	...	19,646	2 0
Wages of Drivers and Firemen	...	15,353	9 0		
Overtime and allowances ...	...	2,868	2 0		
Fuelling and cleaning Locomotives	...	1,424	7 0		
Contingent expenses ...	...	0	0 0		
Fuel	...	...	...	39,724	4 3
Coal Tons 1513 Cwt. 2	...	33,792	1 5		
Patent Fuel Tons 155 „ 8	...	3,385	13 0		
Wood „ 424 „ 1 Qr. 1	...	2,546	5 10		
Water	...	...	...	1,812	10 7
Pumpers, wages... ...	...	1,574	8 0		
Coal &c. for pumping engines	...	43	9 8		
Maintenance and renewals of do.	...	194	8 11		
Oil, Tallow, Waste &c.	...	...	...	1,945	12 3
Oil, Tallow, Waste, Grease &c.	...	1,616	3 7		
Small stores	...	329	5 8		
Maintenance and Renewals of Locomotive Engines and Machinery		...	...	9,638	11 6
Wages ...	...	2,282	4 5		
Overtime allowances ...	...	109	15 4		
Materials	...	7,246	7 9		
				84,612	11 8

Statement of Train Mileage.

	Miles.
Train miles run for Traffic Department	1,20,248
Do. Locomotive Department	—
Do. Maintenance	5,113
Total.....	1,25,361
	Hrs. Min.
Hours of assisting engines	14 52
„ of shunting and piloting	4,749 5
„ of miscellaneous service	1,230 10
Total.....	5,994 7

ABSTRACT I

Goods Traffic.

	Weight in Tons.			
Merchandize General	35,031·78	1,65,722	3	6
Railway Materials	241·65	1,581	11	0
Live Stock	...	345	5	0
Rent and Demurrage	...	367	14	2
		1,68,017	1	8

ABSTRACT K

Sundry Receipts.

Interest on Revenue Balances	...	...	...	8	4	10
Mileage of Vehicles over foreign lines	...	...	...	318	0	1
Bungalow Rents	...	...	...	1,381	9	2
Fees on share Transfers	...	...	...	220	1	5
Sale of unclaimed Goods &c.	...	...	...	10	4	0
Sale of Revenue Stores...	...	...	...	440	8	2
Maintenance of Way and Works	...	...	...	...	...	...
Carriage and Waggon Repairs	...	308	4 0	...	...	...
Traffic Department	...	11	12 0	...	...	...
General Charges	...	87	8 2	...	...	...
	...	33	0 6	...	...	...
				2417	11	8

P.O. Rs. 2830/12.
Rs. 29-Rly/20.

Great Southern of India Railway.

Statement of Traffic Receipts for the half-year ending 30th June 1870.

	Rs.	as.	p.	Rs.	as.	p.
To balance as per last account						
" gross earnings as per Revenue do	388,357	3	7	737	1	6
" less transfer fees received in England	259	1	5	388,098	2	2
Total				388,837	3	8

	Rs.	as.	p.	Rs.	as.	p.
By payments to Government Treasury				4,10,178	2	10
" interest on Revenue balances				8	4	10
				4,10,186	7	8
Deduct amount paid on in January and February belonging to previous half-year	41,895	15	5			
Less amount erroneously included in last statement as paid in, in these two months instead of being included in gross payments to the treasury of that half-year	133	7	3	41,762	8	2
				3,68,423	15	6
Add payments made in July and August				21503	5	6
				3,89,927	5	0
Less amounts due to Madras Railway Company and Government Telegraph				1055	8	10
Total Traffic Receipts				3,88,871	12	2
Balance, i.e. outstanding amount on the 1st September 1870				165	7	6
Total				389,037	3	8

Traffic receipts paid into Government as per above statement — Rs. 237490-8-1
Deduct working expenses as per Revenue Account — " 259-1-5
Less transfer fees — 237231-6-8
151,640-6-6

Rs. as. p.
3,88,871-12-2

/ Signed J. Smith
Chief Auditor.

Examined and found correct.
/ Signed Y. G. Hanbin Majr.
Examiner of Railway Accounts.

/ Signed W. S. Betts
Agent and Traffic Manager.

Captain RE.
Dy. Consulting Engr. for Railways.

P.W. 2830/71

Great Southern of India Railway

Certificate respecting the Permanent way

I hereby certify that the whole of the Company's Permanent way, Stations, Buildings, Telegraph, Fencing &c. have, during the past half year, been maintained in good working Condition and repair

Trichinopoly
4 Oct. 1870

/Signed/ D C A. Johns
Resident Engineer

Certificate respecting the Rolling Stock.

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

Trichinopoly
5 Oct 1870

/Signed/ E G Sheward
Loco: and Carriage Superintendent

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

Madras
8 Oct 1870

/Signed/ H L Rendergast Capt. R.E.
Asst. Consl Engr for Railways

No. 1817 P. W. D.

Proceedings of the Madras Govt.

Read the following

from

The Dy: Cons: Engineer for Railways } (H. E. Leo. 27 Sep. 17 June 71)

Ordered that these papers be forwarded to the Government of India

The Cons: Engineer for Railways

No. 1818.

Dep. 12/7/71

The Secy: to the Govt. of India P. W. D.

Sir

I am directed to forward the Revenue account and Analysis of the traffic operations of the Great Southern of India Railway for the half year ended 30th June 1870.

P. W. 2830/71

Ans. 15/7/71

prepared in accordance with the forms prescribed in the Resolutions of the Govt of India under date the 22d Sept 1865 No 1605 R, and accompanied by a Memo by the Govt Engineer

45

Dec 12 1871 No 2602

of Govt 1817 of 1871