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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 15,1b,017 — 8.0871-86 Press Mis.

Dated — 8-9- 18 1 6.

Not to be folded or roughly handled

No. 15. Read the following letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 8th August 1872, No. 417 :—

I HAVE the honour to forward, herewith, the review of the Revenue Account of the Great Southern of India Railway for the second half of 1871.

2. The preparation of the review has been greatly delayed by a number of references to the Agent of the Railway Company, the necessity for which will, it is hoped, be avoided in future.

3. Every endeavour has been made to render the review as complete as possible and to avoid such imperfections as have been previously remarked upon by the Government of India.

4. The revised form for Table A, which should have accompanied Government of India Resolution, Public Works Department (R), dated 29th September 1871, No. 1,875-R,* was not received in this office until the 31st October. This is, therefore, the first review in which Table A has been prepared in accordance with the revised form.

* G. O., No. 2,727, dated 27th October 1871.

5. Instructions are requested upon the following points :—

TABLE F.-I.

Weight on driving axle of locomotives ...	What information is required under this head? Should it be the total weight on all coupled axles?
Train miles hauled by each class of locomotives at works.	Are train-miles or engine-miles to be given? The return furnished by the Agent of the Great Southern of India Railway gives engine-miles.
Average speed between stations of trains and average through speed of trains.	The speeds hitherto (and now) given are the time-table speeds. The actual speeds can, of course, be worked out from the Engine Drivers' tickets and Guards' journals; but if this is done throughout the half-year the labour will be very great. Will it be sufficient to do this for one or two weeks in the half-year?
Average gross weight of the trains hauled by each class of locomotive.	In order to render this information accurately the mileage of vehicles and of freight must be separately recorded for each class of engines. This will involve a very great deal of labour. Will an approximation, derived from the working of a fortnight or a month in each half-year, suffice?

TABLE E.-I.

Thousands of tons hauled over each kind of rail.	This information cannot be accurately rendered unless the mileages of vehicles and freight are separately recorded for each portion of the line laid with a particular kind of rail.

TABLES E. AND F.

The ton-mileage used in the calculations of these tables does not include ton-mileage run on Capital Account, *e. g.*, ballasting on line open less than two years. Should this be allowed for?

TABLE G.

The vehicle-mileage used in calculations: this table does not include mileages of brakes, mileage of vehicles run free on Revenue Account, or mileages of vehicles ballasting on Capital Account, etc. The same vehicle-mileage is used in Table II, and, as the object is to arrive at the cost per vehicle-mile run for traffic purposes, this seems right; but in Table G the object is different, and it would appear that the whole mileage should be included.

GREAT SOUTHERN OF INDIA RAILWAY.

TABLE A.

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

Traffic.	Passengers or tons of goods carried.		Earnings.		Percentage of total earnings contributed by each description of traffic.
	Number.	Per cent. of total number and total tonnage.	Amount.	Per cent. of total earnings from Coaching and Goods.	
			Rs.		
Coaching. Passengers. 1st Class ...	995	·24	4,808	2·02	58·19
Passengers. 2nd ,, ...	7,456	1·80	7,124	3·00	
Passengers. 3rd ,, ...	404,265	97·96	2,16,018	90·89	
Passengers. 4th ,, ...	...	...	...	...	
Miscellaneous earnings ...	...	...	9,718	4·09	
Total ...	412,716	100·00	2,37,668	100·00	...
	Tons.				
Goods ... General merchandize. Special ...	18,233	40·26	26,264	16·17	39·77
General merchandize. 1st Class ...	18,638	41·16	74,702	45·98	
General merchandize. 2nd ,, ...	4,934	10·90	28,679	17·65	
General merchandize. 3rd ,, ...	2,178	4·81	16,819	10·35	
General merchandize. 4th ,, ...	736	1·63	7,894	4·86	
General merchandize. 5th ,, ...	279	0·61	4,947	3·05	
Government stores... ...	8	0·04	83	0·05	
Railway materials	279	0·61	2,260	1·39	
Minerals	...	...	...	...	
Miscellaneous earnings ...	...	...	808	0·50	
Total ...	45,285	100·00	1,62,456	100·00	...
Miscellaneous, including Electric Telegraph, Steam Boat, and sundries ...	...	...	8,330	...	2·04
Grand Total...	...	...	4,03,454	...	100·00
Less outstandings irrecoverable...	...	...	...	...	...
	...	...	4,03,454	...	...

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

	Coaching.			Goods.			Total (including Miscellaneous Earnings) and less irrecoverable outstandings.				Percentage of profits on paid-up Capital.
	Total.	Per total train mile.	Per open mile per week.	Total.	Per total train mile.	Per open mile per week.	Total.	Excluding Steam Boat traffic and contribution to Flotilla Reserve Fund.			
								Total.	Per total train mile.	Per open mile per week.	
Financial results.	Rs.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs.	Rs.	Rs.	Rs. A. P.	Rs.	
Earnings	2,37,668	1 14 1	54·41	1,62,456	1 4 6	37·19	4,08,454	4,08,454	3 3 8	93·51	0·57
Expenses (M.-II., page 16) ...	97,668	0 12 4	22·36	1,26,923	1 0 1	29·06	2,30,517	2,30,517	1 13 2	52·77	
Profits	1,40,000	1 1 9	32·05	35,533	0 4 5	8·13	1,77,937	1,77,937	1 6 6	40·74	
Percentage of expenses to earnings	41·09	...	...	78·12	...	...	56·43	56·43	...	...	

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

Haulage.	Passenger.	Goods.	Mixed.	Total.
Number of trains run for public traffic.	.....	.....	1,346	1,346
Train mileage (D-I.-2, page 7) ...	.....	.....	126,544	126,544
Gross ton-mileage (M-I.-22, page 15)	.....	.....	21,236,130	21,236,130

Average composition of Trains.	Average number of Vehicles.			Average number of seats per Vehicle.		Average weight of Trains.	
	Passenger Trains.	Goods Trains.	Mixed Trains.	Provided.	Used.	Freight or live load.	Dead load, exclusive of Engine, Tender, and Brakes.
						TONS.	TONS.
Passenger ... 1st Class	...	...	0·51	20·0	0·88	7·635	41·402
2nd ,, ...	...	...	0·45	51·6	6·28		
3rd ,, ...	...	...	5·05	46·0	22·60		
4th ,, ...	...	...	...	...	...		
Others, including Brakes.	...	...	0·98	...	...		
Goods.—*Vehicles of all kinds including Brakes*	...	...	7·57	Carrying capacity in tons 1·5 to 6		20·035	44·747
Total...	...	...	14·56	According to nature of goods.		27·670	86·149

N. B.—For average load per vehicle, see page

Open Mileage on 31st December 1871.			Mean mileage worked.	Average number of stations maintained.	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.		Locomotives.	
Single.	Double.	Total.					1/100 and less.	1/101 to 1/200	1/201 to 1/300	Length.	Inclination.	Length.	Inclination.
					£	£	M. CHS.	M. CHS.	M. CHS.			M. CHS.	
168	...	168	168	21	1,384,750	8,242	3 46	9 11	11 08	*Nil.*	*Nil.*	1 00	1 in 100

3

TABLE B.

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

Reference to Revenue Account.		Details.	Number.		Fare per Mile.		Receipts.		Average Mileage.	
Table and main head.	Sub head.		2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871.
					PIES.	PIES.	RS.	RS.		
X. (H) 1	...	First Class Passengers—								
		Single journey ...	508	828	18	18	2,696	4,097	...	53
		Excess fares ...	24	46			78	89	...	...
		Return journey ...	82	164			800	598	...	69
		Troops and Police ...	...	3			...	24	...	...
		Total...	590	995	...	...	3,074	4,808	56	55
		Season tickets ...	...	...	...	...	...	...	...	...
1	...	Second Class—								
		Single journey ...	3,684	3,584	5	5	4,244	4,220	...	47
		Excess fares ...	189	195			93	96	...	...
		Return journey ...	2,120	3,704			1,229	2,396	...	47
		Troops and Police ...	37	167			80	362	...	...
		Total ...	5,841	7,455	...	...	5,646	7,074	37	47
		Season tickets ...	...	1	...	...	...	50	...	...
1	...	Third Class—								
		Single journey ...	346,456	342,905	3	3	1,71,416	1,72,753	...	35
		Excess fares ...	416	549			172	259	...	...
		Return journey ...	30,962	59,198			20,744	40,604	...	67
		Troops and Police ...	1,791	2,162			1,941	2,402	...	...
		Total ...	379,209	404,265	...	...	1,94,273	2,16,018	30	36
		Season tickets ...	...	...	...	...	...	...	...	...
1	...	Fourth Class—								
		Single journey ...	...	...	...	...	...	...	...	...
		Excess fares ...	...	...	...	...	...	...	...	...
		Return journey ...	...	...	...	...	...	...	...	...
		Troops and Police ...	...	...	...	...	...	...	...	...
		Total ...	...	...	...	...	...	...	...	...
		Season tickets ...	...	...	...	...	...	...	...	...
2	...	Passengers' Luggage ...	TONS. 65	TONS. 102	2 Pies per maund per mile.		1,615	2,179	70	73
3	...	Military Baggage ...	...	1	...	...	...	34	...	91
4	1	Public ... Carriages ...	No. 52	No. 93	*Vide* list attached.		1,933	639	63	99
	2	Horses ...	110	226				1,240	76	65
	3	Dogs ...	184	243				195	58	61
5	1	Military ... Carriages ...	...	...	...	...	...	...	...	...
	2	Horses ...	...	3	...	...	...	20	...	86
	3	Dogs ...	...	...	...	...	...	...	...	...
			TONS. 167	TONS. 151	*Vide* list attached.		6,280	5,353	74	72
6	...	Parcels	No. ...	No. ...	Do.	do.	156	...	...	...
7	...	Special Trains								
		Post Office—								
8	1	Haulage and hire of Post Office vehicles ...	...	...	4 Pies per maund per mile.		70	58	...	73
	2	Special Trains ...	...	1						
	3	Parcels								
		Total ...	...	...	...	...	10,054	9,718	...	...
		Grand Total...	...	...	...	...	2,13,047	2,37,668	...	...

TABLE C.

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

Reference to Revenue Account.			Quantity.				Rate per Ton Mile.		Receipts.		Average Mileage.	
			2nd half of 1870.		2nd half of 1871.							
Table and main head.	Sub head.		Up.	Down.	Up.	Down.	2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871.
			TONS.	TONS.	TONS.	TONS.	PIES.	PIES.	RS.	RS.		
X. (I.) 1	...	General Merchandize— Special Class ...	2,728	1,157	2,443	15,789	8	8	21,579	26,264	133	35
		1st ,, ...	9,861	12,172	6,021	12,617	12	12	77,714	74,702	56	64
		2nd ,, ...	2,524	3,929	1,645	3,289	14	14	33,320	28,679	70	80
		3rd ,, ...	754	1,238	555	1,643	18	18	14,203	16,819	76	80
		4th ,, ...	309	808	243	493	24	24	9,638	7,894	69	84
		5th ,, ...	94	199	102	178	36	36	5,116	4,947	93	89
		Total...	16,270	19,503	11,009	33,989	...	...	1,61,570	1,59,305	45	55
2	...	Military Stores...	...	...	8	...	...	...	...	83	...	86
3	...	Railway Materials for construction ...	62	306	136	143	14	14	1,198	2,260	77	129
6	...	Minerals— For the public ...	...	...	...	...	...	...	...	...	...	...
		Do. Company ...	...	...	...	...	...	...	...	...	...	...
		(*Construction only.*) ...	...	...	...	...	...	...	...	...	...	...
		Total...	62	306	144	143	...	...	1,198	2,343	77	127
		Grand Total...	16,332	19,809	11,153	34,132	...	...	1,63,072	1,61,886	...	...
			TONS.	TONS.	No.	No.	Rate per animal per mile.					
4	...	Live Stock— Horses ...										
		Cattle ...	6,475	1,100	80	7	*Vide* list attached.		304	195	59	12
		Sheep ...	...	...	463	44	...	...	...	43	...	54
5	...	Military Live Stock— Horses ...	...	...	...	...	...	...	...	...	...	...
		Cattle ...	...	...	...	...	...	...	...	...	...	...
		Sheep ...	...	...	...	...	...	...	...	...	...	...

TABLE C-I.

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

Description.	Quantity.		Receipts.		Increase in quantity.	Decrease in quantity.	Increase in receipts.	Decrease in receipts.
	2nd half of 1870.	2nd half of 1871.	2nd half of 1870.	2nd half of 1871.				
	TONS.	TONS.	RS.	RS.	TONS.	TONS.	RS.	RS.
Areca Nuts	942	771	5,591	3,554	...	171	...	2,037
Cloth	269	329	9,536	4,256	60	...	...	5,280
Currystuffs	321	1,752	5,616	5,022	1,431	...	...	594
Fruit and vegetables ...	407	1,933	6,052	6,500	1,526	...	448	...
Grain of all kinds... ...	14,064	15,656	50,686	42,449	1,592	...	...	8,237
Granite stones	961	7,666	7,297	13,047	6,705	...	5,750	...
Hides	236	345	5,877	6,270	109	...	393	...
Oil and Ghee	351	1,716	7,691	6,283	1,365	...	...	1,408
Oil cakes	843	2,079	6,933	6,906	1,236	...	...	27
Salt	4,032	5,626	21,197	31,112	1,594	...	9,915	...
Seeds of all kinds	925	2,834	10,768	13,468	1,909	...	2,700	...
Sundries	1,981	4,026	17,401	14,808	2,045	...	...	2,593
Tobacco	327	265	7,238	5,713	...	62	...	1,525
Total...	25,659	44,998	1,61,883	1,59,388	19,572	233	19,206	21,701

TABLE D.

*Statement of Mileage maintained.**

Reference to Revenue Account.		Details.	2nd half of 1870.			2nd half of 1871.				
			Departmentally	By contract.	Total.	Departmentally	By contract.	Total.	Total increase.	Total decrease.
Table and main head.	Sub head.									
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... ...	13½	...	13½	13½	...	13½	½	...
		5. ,, Single Track Total including Sidings.	181	...	181½	181½	...	181½	½	...

* From Revenue Funds.

TABLE D-I.

Statement of Train Mileage.

No.	Details.	Train Miles run for			Hours of		
		Traffic Department.	Locomotive Department.	Maintenance Department.	Assisting Engines.	Shunting, Piloting, etc.	Miscellaneous Services.
	Reference to Revenue Account.	XIV.-1.	XIV.-2.	XIV.-3.	XIV.-4.	XIV.-5.	XIV.-6.
1	2nd half of 1870. Passenger ...	119,420	...	9,007	H. M. 5 3	H. M. 4,511 31	H. M. 1,221 3
	Goods ...						
	Mixed ...						
	Total...	119,420	...	9,007	5 3	4,511 31	1,221 3
2	2nd half of 1871 Passenger ...	126,544	...	8,920	0 42	5,289 55	1,223 25
	Goods ...						
	Mixed ...						
	Total...	126,544	...	8,920	0 42	5,289 55	1,223 25
3	Increase in 1871 Passenger ...	7,124	...	...	...	778 24	2 22
	Goods ...						
	Mixed ...						
	Total...	7,124	...	...	...	778 24	2 22
4	Decrease in 1871 Passenger ...	...	...	5,087	4 21	...	...
	Goods ...						
	Mixed ...						
	Total...	...	...	5,087	4 21	...	...

TABLE E.

Maintenance of Way, Works, and Stations.

RAILS.

Reference to Revenue Account.			2nd half of 1870.	2nd half of 1871.		
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease
XIV.	...	Train-Mileage (D-I. 1 page 7)...	119,420	126,544	7,124	...
		Ton-Mileage (M-I. 22 page 15)...	18,842,934	21,236,130	2,393,196	...

If done Departmentally.			Details.	Half of 1870.	Half of 1871.			Per mile of line maintained. D.-3.	Per mile of track including sidings. D.-5.	Per Train Mile.	Per 1,000 Ton Miles.
				Total	Total.	Increase.	Decrease				
	IX. (A.) I.	1 & 2	Superintendence— Engineers' salaries and allowances	Rs. 2,982	Rs. 3,787	Rs. 805	Rs. ...	Rs. 22·542	Rs. 20·821	As. 0·507	Rs. 0·178
		3 to 5	Inspectors' and Platelayers' salaries and allowances, including overtime ...	4,709	3,878	...	831	23·084	21·322	0·520	0·183
		6	Office expenses	2,819	2,176	...	643	12·952	11·964	0·291	0·102
	2	1	Maintenance and Renewal of Permanent Way— Wages	21,074	20,147	...	927	119·923	110·771	2·699	0·949
		2	Materials	21,761	20,489	...	1,272	121·958	112·651	2·745	0·965
	3		Repairs of Bridges, etc.— Wages and Materials—								
		1	Bridges and Tunnels ...	369	161	...	208	0·958	0·885	0·023	0·008
		2	Miscellaneous ...	2,797	658	...	2,139	3·917	3·618	0·088	0·031
	4		Repairs of Stations and Buildings—Wages and Materials—								
		1	Repairs of all, except Staff quarters	2,067	3,126	1,059	...	18·607	17·187	0·419	0·147
		2	Repairs of Staff quarters.	392	475	83	...	2·827	2·612	0·064	0·022
	5	...	Maintenance by contract ...	...	...	...	...	...	...	...	...
			Unclassified expenditure—								
	6	1	Plantations	1,374	105	...	1,269	0·625	0·577	0·014	0·005
		2	Tools and Plant ..	309	150	...	159	0·893	0·825	0·020	0·007
		3	Loss on stores, etc. ...	309	3	...	306	0·018	0·016	0·001	0·
			Total...	60,962	55,155	1,947	7,754	328·304	303·249	7·390	2·597

TABLE E-I.

Maintenance of Way.

RAILS.

No.	Details.	Double-headed.		Bridge.	Flat-footed.	Others.	Total.
		68 lbs.	lbs.	lbs.	lbs.		
1	Miles of rail in way, including sidings ...	180¼	...	...	...	...	180¼
2	Average age of rails in way at the middle of the half-year in years	7	...	...	...	...	7
3	Rails inverted... {Number	1,134	...	...	...	...	1,134
	{Miles	2·25	...	...	...	...	2·25
4	Proportion inverted per mile of (1) rail ...	504	...	...	...	...	504
5	Rails renewed... {Number	86	...	...	...	...	86
	{Miles	·171	...	...	...	...	·171
6	Proportion renewed per mile of (1) rail ...	502 9	...	...	...	...	502·9
7	Average number of tons hauled over each kind of rail in the half-year	126,400	...	...	...	...	126,400
8	Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2)	*2,025,000	...	...	...	...	*2,025,00 0

* Approximately.

TABLE E-II.

Maintenance of Way.

SLEEPERS.

No.	Details.	Wooden Sleepers of all descriptions.	Iron Pot Sleepers, pairs.
		No.	
1	Number of sleepers in way including sidings	145,442	171,798
2	* Average age of sleepers in way at the middle of the half-year, in years ...	10	4¼
3	Number renewed	20,364	18¾
4	Do. do. per cent. of (1)	14 0015	·01077

* Since receipt by Store Department.

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account.			2nd half of 1870.	2nd half of 1871.		
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.
XIV.	...	Train Mileage (D-I. 1, page 7) ...	119,420	126,544	7,124	...
		Ton Mileage (M-I. 22, page 15) ...	18,842,934	21,236,130	2,393,196	...

			Details.	Half of 1870.	Half of 1871.			Per Train Mile.	Per 1,000 Ton Miles.
				Total.	Total.	Increase.	Decrease.		
IX. (B.)	1	1 & 2	General Superintendence— Salaries of Locomotive Superintendents and Assistants, including allowances ...	Rs. 2,403	Rs. 2,477	Rs. 74	Rs. ...	As. 0·332	Rs. 0·117
		3 to 5	Salaries of Foremen, including allowances and overtime ...	9,034	6,263	...	2,771	0·819	0·295
		6	Office expenses	2,546	2,378	...	168	0·39	0·112
	2	1 & 2	Running Expenses— Wages of Drivers and Firemen, including overtime ...	16,184	15,917	...	267	2·132	0·749
		3	Fuelling, cleaning, and looking after engines	1,844	1,189	...	655	0·159	0·056
		4	Contingent expenses ...	...	...	...	...	...	...
			Fuel—	34,112	19,724	...	14,388	2 642	0·929
	3	1	Coal	...	...	...	...	...	...
		2	Coke	...	12,064	12,064	...	1·616	0·563
		3	Patent Fuel	1,100	1,905	805	...	0· 55	0·090
		4	Wood	1,130	1,109	...	21	0 149	0·052
	4	1, 2, & 3	Water	1,796	1,985	189	...	0·266	0·003
	5	...	Oil, Tallow, etc.						

Locomotive Department Expenses.—(Concluded.)

Reference to Revenue Account.		Details.	Half of 1870.	Half of 1871.			Per Train Mile.	Per 1,000 Ton Miles.
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.		
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
6	1 & 2	Maintenance and Renewals—Wages, including overtime ...	3,373	4,745	1,372	...	0 636	0·223
	3	Materials	11,555	14,763	3,208	...	1·978	0 695
7	...	Services of other Lines ...	...	...	...	...	...	...
8	...	Unclassified Expenditure ...	...	183	183	...	0·025	0·009
		Total...	85,077	84,702	17,895	18,270	11·348	3·988

			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	1,676	1,014	...	662	19·02	106·96
	2	Coke do.	...	...	...	...	...	...
	3	Patent fuel consumed... ...	...	...	606	...	11·37	63·92
	4	Wood do.	261	382	121	...	7·17	40·29

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.	...
		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	3·94	3·46	0·42	0·56	8·38
		3.—Average number of locomotives at work (1—2)	5·06	2·54	3·58	1·44	12·62
		4.—Train miles hauled by each class of locomotives at work (3)	71,605	30,044	45,540	14,988	1,62,177
		5.—Average train miles hauled by each locomotive at work (3)— Per half-year	7,956	5,007	11,385	7,494	31,842
		Per day	44	28	62	41	173
		6.—Average speed between stations of trains. Passenger ...	25 miles per hour.	Through mixed trains.			
		Goods	...	...	...	...	...
		Mixed	...	18 miles per hour.	Local mixed trains.		...
		7.—Average through speed of trains. Passengor ...	20 miles per hour.	Through mixed trains.			
		Goods	...	...	...	...	...
		Mixed	...	15 miles per hour.	Local mixed trains.		...
		8.—Weight of coal, etc., used per train mile. *To be separated, if possible, among the classes of locomotives.*	21·6	32·9	21·1	9·2	21·75
		9.—Weight of wood used per train mile.	6·3	3·7	2 3	8 3	5·27
		10.—Average gross weight of the trains hauled by each class of locomotive ...	...	Not recorded.		...	...

TABLE G.

Carriage and Waggon Expenses.

Reference to Revenue Account.		Details.	2nd half of 1870.	2nd half of 1871.			
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.	
XIV.	...	Train Mileage (D.-I. 1, page 7) ...	119,420	126,544	7,124	...	
		Vehicle Mileage. Coaching (M.-I. 8, page 14)	745,424	869,671	124,247	...	
		Goods (M.-I. 14, page 14)	1,331,872	963,453	...	368,419	
		Total...	2,077,296	1,833,124	...	244,172	

			2nd half of 1870.	2nd half of 1871.				
			Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
IX (C.) 1.	1 & 2	General Superintendence— Salaries of Superintendents and allowances ...	1,282	360	...	922	0·048	0·196
	3 to 5	Salaries of Foremen and allowances, including overtime	859	703	...	156	0·094	0·384
	6	Office expenses	295	306	11	...	0·041	0·167
2	1 to 3	Repairs and Renewals of Vehicles and Machinery— Coaching Vehicles. Wages, including overtime ...	755	1,211	456	...	0·162	(a) 1·392
		Materials ...	2,428	5,345	2,917	...	0·716	(a) 6·146
	1 to 3	Goods Vehicles. Wages, including overtime ...	1,003	2,043	1,045	...	0·275	(b) 2·126
		Materials ...	5,263	7,980	2,712	...	1·069	(b) 8·283
3	1	Cleaning and Oiling— Labour, including wages of oilers, etc.	647	1,294	647	...	0·173	0·706
	2	Stores...	1,224	946	...	278	0·127	0·516
4	...	Unclassified expenditure ...	...	...	...	...	...	...
		Total ...	13,761	20,193	7,788	1,356	2·705	11·016

TABLE H.

Traffic Expenses.

Reference to Revenue Account.		Details.	2nd half of 1870.	2nd half of 1871.			
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.	
XIV.	...	Train Mileage (D.-I. 1, page 7) ...	119,420	126,544	7,124	...	
		Vehicle Mileage Coaching (M.-I. 8, page 14)	745,424	869,671	124,247	...	
		Goods (M.-I. 14, page 14)	1,331,872	963,453	...	368,419	
		Total...	2,077,296	1,833,124	...	244,17 2	

Traffic Expenses.—(Concluded.)

Reference to Revenue Account.		Details.	2nd half of 1870.	2nd half of 1871.				
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
		Salaries, Wages, etc.—	Rs.	Rs.	Rs.	Rs.	As.	Rs.
IX. (D.) 1	(1 & 3) *a*	General Superintendence, including travelling allowances	3,455	3,570	115	...	0·478	1·948
	(2 & 4) *a*	Office Establishment and contingencies	594	558	...	36	0·075	0·304
	b	Station staff	14,594	14,124	...	470	1·892	7·704
	c	Train staff	2,859	2,752	...	107	0·369	1·501
2	1 to 3	Fuel, Lighting, Water, and General Stores	4,028	1,136	...	2,892	0·152	0·620
3	...	Clothing	424	763	339	...	0·102	0·416
4	...	Printing, Stationery, and Tickets	1,962	1,425	...	537	0·191	0·777
5	...	Cattle used for traffic purposes, and delivery and collection of goods	...	...	...	..	...	...
		Greasing rolling stock ...	...	...	...	...	...	...
6	...	Miscellaneous expenses ...	235	246	11	...	0·033	0·134
		Payments to other Lines—						
7	1	Hire of Vehicles	...	...	...	...	...	...
	2	Mileage of foreign stock ...	656	1,252	596	...	0·168	0·683
	3	Use of stations	5,554	6,041	487	...	0·809	3·296
8	...	Unclassified expenditure ...	...	...	...	...	...	...
		Total ...	34,361	31,867	1,548	4,042	4·269	17·383

TABLE J.

General Charges.

Reference to Revenue Account.		Details.	2nd half of 1870.	2nd half of 1871.			
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	As.
IX. (E.) 1	...	Home Expenditure	9,411	11,071	1,660	...	1·484
		Indian Management—					
2	1	Agent's Office, including travelling and other allowances	10,283	12,449	2,166	...	1·664
	2	Auditor's Office, do.					
	3	Account's Office, do.					
	4	Paymaster's Office, do.					
	5	Store Department, do.	1,689	3,270	2,730	...	0·438
	6	Medical Department, do.		1,149	...	...	0·154
	7	Rents					
	8—10	Contingencies, stationery, and medicine.	783	1,041	258	...	0·140
3	...	Police *(total charges)*	...	...	...	...	...
4	...	Advertising	68	125	57	...	0·017
5		Electric Telegraph—					
	1 to 4	Salaries, etc.	3,827	3,070	...	757	0·412
	5	Maintenance (labour and stores) ...	22	154	132	...	0·022
6	...	Clearing Accounts with other Lines ...	...	...	...	...	...
7	...	Unclassified Expenditure... ...	...	...	...	...	...
		Loss on stores	...	...	...	...	...
		Total...	26,083	32,329	7,003	757	4·331

TABLE K.

Steam Boat Service.

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

TABLE L.

Special and Miscellaneous Expenditure.

Reference to Revenue Account.		Details.	2nd half of 1870.	2nd half of 1871.		
Table and main head.	Sub head.		Total.	Total.	Increase.	Decrease.
IX. (G.) 1	...	Law Charges	3	11	8	...
		Compensation—	89	59	...	30
2	1	Claims for goods, etc.	...	...	...	...
	2	Personal injury	1,593	1,200	...	393
		Rates and Taxes				
3	...	Contributions to Special Funds—				
		Fire Insurance Fund	5,000	5,000	...	...
4	1	P. W. Renewal Fund	...	...	...	...
	2	Casualty Fund...	...	...	...	...
	3	Value of boats purchased	821	...	...	821
		Total...	7,506	6,270	8	1,244

ANALYSIS OF CARRYING COST.

TABLE M.-I.

Definitions.

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 Post Office Vehicles	is—1 ,,
,, of Goods	is—1 ,,
,, of Cattle	is—1 ,,

Approximate weight of units adopted in these calculations:

	CWT.	TON.
COACHING—		
First class Passenger with free luggage	1·75	= 0·0875
Second ,, ,, do.	1·75	= 0·0875
Third ,, ,, do.	1·25	= 0·0625
Fourth ,, ,, do.	1·25	= 0·0625
A carriage (average for two and four-wheeled)	6·75	= 0·3375
COACHING—(*Concluded.*)		
A horse	8·75	= 0·4375
A dog	0·20	= 0·0100
GOODS—		
A head of horned cattle ...	5·00	= 0·2500
A head of sheep, goats, etc.	0·50	= 0·0250

	Details.	Total mileage of each description of rolling stock.	Total mileage of units of traffic.	Average contents in units of each Vehicle. No.	Average contents in units of each Vehicle. Weight in Tons.	Average weight of rolling stock in tons.	Total average weight including contents of each vehicle in tons.	Tons of vehicles and freight per ton of freight.	Ton Mileage. Of freight.	Ton Mileage. Of dead weight.	Total Ton Mileage. Excluding Engines and Tenders and Brake Vans.	Total Ton Mileage. Including Engines and Tenders and Brake Vans.
	COACHING.											
1	1st Class	64,618	56,758	0·878	0·077	7·29	7·367	95·85	4,966	471,065	476,031	...
2	2nd ,, ...	56,988	357,536	6·273	0·549	7·22	7·769	14·15	31,284	411,453	442,737	...
3	3rd ,, ...	638,431	14,441,589	22·620	1·414	5·58	6·994	4·95	902,600	3,561,145	4,463,745	...
4	4th ,, ...	...	...	...	...	...	...	...	...	...	...	...
5	Carriage trucks	5,066	6,189	1·222	0·412	5·06	5·472	13·27	2,089	25,634	27,723	...
6	Horse Boxes	18,391	14,875	0·809	0·354	7·06	7·414	20·95	6,508	129,866	136,374	...
7	Luggage, Parcels, and Dogs' Vans.	86,177	18,659	0·217	0·217	6·11	6·327	29 22	18,659	526,542	545,201	...
7-A.	Post Office Vehicles	...	...	...	...	...	...	..	...	...	...	...
8	Total...	669,671	...	...	...	...	...	...	966,106	5,125,705	6,091,811	...
9	Passenger Engines and Tenders.	...	...	...	...	41·64	...	...	...	2,837,073	...	...
10	Do. Brake Vans ...	18,565	...	...	...	6·11	...	...	...	113,432	...	...
11	Total Coaching Ton Mileage...	...	...	...	...	...	...	...	966,106	8,076,210	6,091,811	9,042,316
	GOODS.											
12	Goods Vehicles	961,519	2,531,998	2·633	2·633	5·73	8·363	3·176	2,531,998	5,500,613	8,032,611	...
12-A.	Cattle Vans	1,934	37,361*	19·318	1·614	6·11	7·724	4·786	3,121	11,818	14,939	...
13	Mineral trucks	...	...	...	...	...	...	...	...	...	...	...
14	Total...	963,453	...	...	...	...	...	...	2,535,119	5,512,431	8,047,550	...
15	Goods Engines and Tenders ...	...	...	...	...	41·64	...	...	...	3,747,897	...	...
16	Do. Brakes	24,524	...	...	...	6·11	...	...	...	149,842	...	...
17	Total Goods Ton Mileage...	...	...	...	...	...	...	...	2,535,119	9,410,170	8,047,550	11,945,289
	MISCELLANEOUS FOR STORES CARRIED FREE ON REVENUE ACCOUNT.											
18	For Traffic Department ...	397	2,580	6·499	6·499	5·99	12·489	1·922	2,580	2,378	4,958	...
19	,, Locomotive do. ...	4,682	18,004	3·845	3·845	4·94	8·785	2·284	18,004	23,129	41,133	...
20	,, Engineering do. ...	4,690	20,697	4·413	4·413	5·26	9·673	2·192	20,697	24,669	45,366	...
20-A.	Total...	9,669	...	...	...	...	...	...	41,281	50,176	91,457	...
20-B.	Engines and Tenders ...	...	...	...	...	39·67	...	...	...	157,068	...	...
20-C.	Brake Vans	...	...	...	...	...	...	...	...	...	...	...
21	Total Miscellaneous Ton Mileage...	...	...	...	...	...	...	...	41,281	207,244	91,457	248,525
22	Total Ton Mileage...	...	...	...	...	...	...	...	3,542,506	17,693,624	14,230,818	21,236,130

* Mileage of horned cattle 9,720
Do. of sheep 27,641
Total... 37,361

Proceedings of the Madras Government, Public Works Department, 3rd September 1872.

M-II.

Division between Coaching and Goods of the expenditure of Departments.

Details.	Maintenance.	Locomotive.	Carriage and Waggon.	Traffic.	General.	Special and Miscellaneous.		Total.
						Permanent Way Renewal Fund.	Other items.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Expenses due to Coaching	22,680	36,426	7,753	15,077	13,830	...	1,902	97,668
Do. due to Goods	29,962	48,120	11,355	16,703	18,271	...	2,512	1,26,923
Total...	52,642	84,546	19,108	31,780	32,101	...	4,414	2,24,591

M-III.

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

Details.	First Class Carriages.	Second Class Carriages.	Third Class Carriages.	Fourth Class Carriages.	Carriage Trucks.	Horse Boxes.	Luggage Vans.	Post Office Vehicles.	Total Coaching Stock.	Goods Vehicles.	Cattle Vans.	Mineral Trucks.	Total Goods Stock.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Maintenance	1,772	1,643	16,619	...	103	508	2,030	...	22,680	29,906	56	...	29,962
Locomotive	2,847	2,647	26,651	...	166	815	3,260	...	36,426	48,031	89	...	48,120
Carriage and Waggon	576	503	5,622	...	45	164	768	...	7.753	11,332	23	...	11,355
Traffic	1,120	983	11,063	...	88	319	1,494	...	15,077	16,669	34	...	16,703
General	1,028	906	10,153	...	81	292	1,370	...	13,830	18,234	37	...	18,271
Special and Miscellaneous. P. W. Renewal Fund...	...	...	...	...	...	...	...	...	...	...	...	...	...
Special and Miscellaneous. Other items ...	111	125	1,396	...	11	40	189	...	1,902	2,502	5	...	2,512
Total...	7,134	6,822	71,619	...	494	2,138	9,111	...	97,668	1,26,679	244	...	1,26,923

M-IV.

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

Details.	First Class.	Second Class.	Third Class.	Fourth Class.	Carriage Trucks.	Horse Boxes.	Luggage Vans.	Post Office Vehicles.	Goods Vehicles.	Cattle Vans.	Mineral Trucks.
	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.	Pies.
Maintenance	5·266	5·553	4·998	.....	3·912	5·300	4·522	.....	5·972	5·522	.....
Locomotive	8·458	8·919	8 027	.....	6·283	8·513	7·263	.....	9·591	8·868	.....
Carriage and Waggon	1·712	1·712	1·712	.....	1·712	1·712	1·712	.....	2·263	2·263	.....
Traffic	3·329	3·329	3·329	.....	3·329	3·329	3·329	.....	3·329	3·329	.....
General	3·053	3 053	3·053	.....	3·053	3·053	30·53	.....	3·641	3·641	.....
Special and Miscellaneous P.W. Renewal Fund	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Special and Miscellaneous Other items ...	0·420	0·420	0·420	.....	0·420	0·420	0·420	.....	0·500	0·500	.....
Total...	22·238	22·986	21·539	.....	18·709	22·327	20·299	.....	25·296	24·123	.....
Cost per unit...	25·317	3·664	0·952	.....	15·325	27·596	93·752	.....	9·606	1·254	.....

M-V.

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

Details.	Average receipt per unit per mile.	Actual cost per unit per mile.	Profit per unit per mile.	Loss per unit per mile.	Proportion per cent. of profits to receipts.
	Pies.	Pies.	Pies.	Pies.	
Coaching—					
1st Class	16·264	25·317	.....	9·053	.....
2nd ,, ...	3·799	3·664	0·155	.....	4·080
3rd ,, ...	2·872	0·952	1·920	.....	66·854
4th ,, ...	.....	.....	.....	.....	.....
Carriages	19·824	15·325	3·499	.....	17·605
Horses	16·263	27 596	.....	11·333	.....
Luggage	80·447	93·752	.....	13·305	.....
Post Office Vehicles	.....	.....	.....	.....	.....
Goods—					
Merchandize, including Government Stores and Railway materials ...	12·258	9·606	2·652	.....	21·635
Cattle	1·218	1·254	.....	0 036	.....
Minerals	.....	.....	.....	.....	.....

Madras,
8th August 1872.

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

No. 149.

Statement of Revenue Account for the half-year ending 31st December 1871.

Cr.

Half-year ended 31st Dec. 1870. Train Miles, 119,420.		Half-year ended 31st Dec. 1870.		Per-centage of Revenue.	Train Miles, 126,544. Cost per Train Mile.	Per-centage of Working Expenses.		Amount.		Earnings per Train Mile.
Rs. A. P.		Rs. A. P.			As.			Rs. A. P.		As.
60,962 6 3	To Maintenance of Way and Works (Abstract A.)						By Coaching Traffic (Abstract H.) ...	2,37,668 3 1		30·05
85,076 9 1	,, Locomotive Expenses (Abstract B.) ...						,, Goods do. (Abstract I.)	1,62,456 5 5		20·54
13,761 7 7	,, Carriage and Waggon Expenses (Abstract C.)						,, Electric Telegraph Receipts	2,404 11 10		·30
34,361 5 10	,, Traffic Expenses (Abstract D.)						,, Sundry do. (Abstract K.) ...	5,925 3 8		·75
26,082 11 4	,, General Charges (Abstract E.) ...									
7,506 0 5	,, Special and Miscellaneous (Abstract G.)									
2,27,750 3 6										
1,58,025 13 9	Balance...									
3,85,776 6 3	Total...	3,85,776	6 3	100·00	51·64	100·00	Total...	4,08,454	8 0	51·64
				43·56	22·50	.....				
				56·44	29·14	100·00				
3,85,776 6 3	Total...	4,08,454	8 0	100·00	51·64	100·00				

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

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

NEGAPATAM,
5th March 1872.

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

(Signed) J. SMITH,
Chief Auditor.

ABSTRACT A.

Maintenance of Way and Works.

	Rs. A. P.	Rs. A. P.
1st.—SALARIES, OFFICE EXPENSES, AND GENERAL SUPERINTENDENCE	.....	9,840 11 4
1. Engineer's salary	3,436 6 0	
2. Allowances of do., including travelling allowances ..	350 0 0	
3. Subordinate Superintendents	3,698 4 0	
4. Allowances of do.	180 0 0	
6. Office expenses	2,176 1 4	
2nd.—MAINTENANCE AND RENEWALS OF PERMANENT WAY ...	.....	40,636 0 3
1. Wages	20,147 1 3	
2. Materials	20,488 15 0	
3rd.—REPAIRS OF BRIDGES, ETC.—WAGES AND MATERIALS ...	.....	819 6 4
1. Bridges	161 1 0	
2. Miscellaneous, including earthwork, roads, fencing, etc.	658 5 4	
4th.—REPAIRS OF STATIONS AND BUILDINGS—WAGES AND MATERIALS	.....	3,601 0 10
1. Repairs of Buildings of every description, including station yards, signals, etc.	3,126 0 4	
2. Repairs of staff quarters	475 0 6	
6th.—UNCLASSIFIED EXPENDITURE	.....	258 1 4
1. Plantations	105 4 2	
2. Tools and Plant	149 12 2	
3. Miscellaneous	3 1 0	
Total...	.....	55,155 4 1

Miles maintained.	Departmentally.	By Contract.	Total.
Railway Line... {Double	.....	.....	.....
{Single	168	.....	168
	13⅞	.....	13⅞
Sidings	.....	.....	181⅞

ABSTRACT B.

Locomotive Expenses.

	Rs. A. P.	Rs. A. P.
1st.—GENERAL SUPERINTENDENCE	.....	11,117 14 4
1. Salary of Locomotive Superintendent	2,258 3 3	
2. Allowances of do., including travelling allowances ...	218 8 11	
3. Subordinate Superintendents	6,164 13 0	
4. Allowances of do., including travelling allowances ...	4 2 6	
5. Overtime allowances	94 4 4	
6. Office expenses	2,377 14 4	

Locomotive Expenses.—(Concluded.)

2ND.—RUNNING EXPENSES				
1. Wages of Drivers and Firemen				17,106 8 8
2. Overtime and allowances	13,400 9 0			
3. Labour connected with fueling, cleaning, and looking after engines in yards	2,516 9 0			
	1,189 6 8			
3RD.—FUEL				
1. Coal	Tons 1,013	Cwts. 15		33,692 11 2
3. Patent fuel	,, 606	,, 10		
4. Wood ,,	,, 381	,, 18		
	19,724 2 6			
	12,063 9 6			
	1,904 15 2			
4TH.—WATER—*Wages and Stores*				1,108 15 10
5TH.—OIL, TALLOW AND OTHER STORES EXPENDED ON ENGINES IN WORK				1,985 1 1
6TH.—MAINTENANCE AND RENEWALS OF LOCOMOTIVE ENGINES AND MACHINERY				19,507 9 8
1. Wages	4,676 2 8			
2. Overtime	68 3 8			
3. Materials	14,763 3 4			
8TH.—UNCLASSIFIED EXPENDITURE				
Tools and Plant	183 0 0			183 0 0
Total				84,701 12 9

ABSTRACT C.

Carriage and Waggon Expenses.

1ST.—GENERAL SUPERINTENDENCE				
1. Salary of Superintendent				1,368 14 8
2. Allowances of do., including travelling allowances	343 10 3			
3. Subordinate Superintendents	16 7 1			
4. Allowances of do., including travelling allowances	692 11 9			
5. Overtime allowances	0 7 11			
6. Office expenses	10 6 7			
	305 3 1			
2ND.—REPAIRS AND RENEWALS OF VEHICLES AND MACHINERY				16,583 10 4
Coaching Vehicles—(1).—Wages	1,210 11 0			
(2).—Overtime	.....			
(3).—Materials	5,344 15 2			
Goods Vehicles—(1).—Wages	2,022 12 4			
(2).—Overtime	24 13 2			
(3).—Materials	7,980 6 8			
	6,555 10 2			
	10,028 0 2			
3RD.—CLEANING CARRIAGES AND WAGGONS AND OILING				2,240 0 8
1. Labour, including wages of Oilers, Carriage Cleaners, and Examiners	1,293 11 10			
2. Oil, grease, and other stores	946 4 10			
Total				20,192 9 8

ABSTRACT D.

Traffic Expenses.

1ST.—SALARIES, WAGES, ETC.				21,003 13 1
(a).—General Superintendence			4,128 6 0	
1. Assistant Traffic Manager	3,000 0 0			
2. Office establishment	552 0 0			
3. Travelling allowances	570 0 0			
4. Contingencies	6 6 0			
(b).—Station Staff—1. Station Masters, Clerks, Porters, Gatekeepers at level crossings, etc.			14,123 7 1	
(c).—Train Staff—1. Guards and Assistant Guards			2,752 0 0	
2ND.—LIGHTING, GENERAL STORES, ETC.				1,136 2 6
1. Lights, general stores, etc., for stations, carriages, offices, etc.			1,096 1 1	
3. Office and station fittings and furniture			40 1 5	
3RD.—CLOTHING				763 8 0
4TH.—PRINTING, STATIONERY, AND TICKETS				1,425 4 1
6TH.—MISCELLANEOUS EXPENSES				246 0 0
7TH.—PAYMENTS TO OTHER LINES				7,292 11 6
2. Mileage of foreign stock			1,251 7 3	
3. Expenses at Joint Station (Erode), including rent			6,041 4 3	
Total				31,867 7 2

ABSTRACT E.

General Charges.

1ST.—HOME EXPENDITURE				11,071 7 3
1-2. Directors, Secretary, Auditors, and Accountants			7,658 2 11	
3. Consulting Engineer and Inspecting Officers' fees and travelling allowances			2,324 10 10	
4. Office expenses			1,088 9 6	
2ND.—SALARIES OF INDIAN MANAGEMENT, INCLUDING OFFICES				17,908 12 3

	Salaries.	Travelling Allowances.	Contingencies.
	RS. A. P.	RS. A. P.	RS. A. P.
1. Agent's Office, including Audit and Accounts.	12,391 2 8	0 13 0	57 4 3
5. Store Dept.	3,256 14 7	12 11 10	.....
6. Medical ,,	1,129 10 10	5 6 4	13 13 4
Total	16,777 12 1	18 15 2	71 1 7

	16,867 12 10	
8. Contingencies, including furniture and fittings	487 2 8	
9. Stationery	398 15 7	
10. Medicines	154 13 2	

General Charges.—(Concluded.)

		Rs. A. P.	Rs. A. P.
4TH.—ADVERTISING...		.....	125 9 0
5TH.—ELECTRIC TELEGRAPH		.....	3,223 9 11
2. Signallers		2,591 8 0	
4. Office expenses and contingencies		478 8 3	
5. Maintenance, wages, and stores		153 9 8	
	Total...	.....	32,329 6 5

ABSTRACT G.

Special and Miscellaneous Expenses.

	Rs. A. P.
1.—LAW CHARGES	11 4 0
2.—COMPENSATION	58 15 0
(1). For goods lost or damaged	.....
3.—RATES AND TAXES	1,200 1 1
4.—CONTRIBUTION TO SPECIAL FUNDS	5,000 0 0
(1). Fire Insurance Fund	.....
Total...	6,270 4 1

ABSTRACT H.

Coaching Traffic.

Ordinary Mileage Fares.	First Class. 18 Pies. No.	Amount.	Second Class. 5 Pies. No.	Amount.	Third Class. 3 Pies. No.	Amount.	Total. No.	Amount.
		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.
1ST.—PASSENGERS.								
Single journeys ...	828	4,097 5 0	3,584	4,219 13 0	342,905	1,72,753 2 0	347,317	1,81,070 4 0
Excess fares	46	89 3 0	195	96 0 0	549	258 9 0	790	443 12 0
Return journeys ...	164	597 8 0	3,704	2,396 2 0	59,198	40,604 8 0	63,066	43,598 2 0
Troops and Police ...	3	24 3 0	167	362 3 0	2,162	2,401 10 0	2,332	2,788 0 0
Total ..	1,041	4,808 3 0	7,650	7,074 2 0	404,814	2,16,017 13 0	413,505	2,27,900 2 0
Season Ticket...	...	.....	1	50 0 0	...	.....	1	50 0 0
2ND.—PASSENGERS' LUGGAGE ...						Total...	...	2,27,950 2 0
3RD.—MILITARY BAGGAGE						Ton Miles...	7,369·69	2,179 4 4
4TH.—CARRIAGES, HORSES, AND DOGS ...						Do. ...	110·94	33 11 0
(1).—Carriages			No. 93	Rs. 639 6 0		... ...	...	2,074 5 0
(2).—Horses			,, 226	,, 1,240 1 0		... ...	...	
(3).—Dogs			,, 243	,, 194 14 0		... ...	...	
5TH.—MILITARY CARRIAGES, HORSES, ETC. ...						... ...	...	
(1).—Horses			No. 3	Rs. 20 3 0		... ...	...	20 3 0
6TH.—PARCELS						... ...	...	
8TH.—POST OFFICE—						Ton Miles..	10,930·32	5,352 12 0
(3).—Parcels						... Do. ...	100·03	57 13 9
						... ...	...	.....
						Total ...	...	2,37,668 3 1

Proceedings of the Madras Government, Public Works Department, 3rd September 1872.

ABSTRACT I.

Goods Traffic.

	Rate per Ton per Mile.	Ton Miles.	Amount.	Total.
	.....	.....	Rs. A. P.	Rs. A. P. 1,59,305 0 0
1ST.—MERCHANDIZE, GENERAL ...	12 Pies	1,196,799	74,701 8 0	
1st Class	14 ,,	393,472	28,678 13 0	
2nd ,, ...	18 ,,	174,654	16,819 3 0	
3rd ,, ...	24 ,,	62,018	7,894 6 0	
4th ,, ...	36 ,,	24,715	4,946 12 0	
5th ,, ...	8 ,,	646,245	26,264 6 0	
Special ,, ...	.....	688	.....	83 0 0
2ND.—MILITARY STORES	.....	33,407	.....	2,259 13 0
3RD.—RAILWAY MATERIALS FOR CONSTRUCTION	.....	.....	.....	237 15 0
5TH.—LIVE STOCK	.....	243	195 7 0	
Cattle	.....	691	42 8 0	
Sheep, etc.	.....			570 9 5
7TH.—RENTS AND DEMURRAGE, WHARFAGE, STORAGE, ETC.	.....	.....	.....	1,62,456 5 5
Total...	.....	.....	.....	

ABSTRACT K.

Sundries.

	Rs. A. P.
Interest on Revenue balances deposited with Government	1,170 0 3
Mileage of vehicles over foreign lines	1,077 13 8
Rents of dwelling-houses	1,862 6 4
Fees on share transfers, etc.	685 14 7
Sale of unclaimed and damaged goods	107 0 10
Sale of Revenue Stores	1,022 0 0
Maintenance 650 13 0	
Locomotive 156 4 0	
Carriage and Waggon 6 15 7	
Traffic 86 15 5	
General 121 0 0	
Total	5,925 3 8

Mileage Statement.

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

Statement of Train Mileage.

	No.	Estimated Locomotive Expenses.
		RS.
Train miles run for Traffic Department	126,544	66,041
Do. for Locomotive do.	.....	.....
Do. for Maintenance do.	3,920	2,046
Total...	130,464	68,087
	H. M.	
Hours of assisting engines	0 42	7
,, of shunting, piloting, etc.	5,289 55	15,268
,, of miscellaneous services	1,223 25	1,339
Total...	6,514 2	16,614
Total cost...	.....	84,701

FORM No. XVI.

GOVERNMENT FORM OF ACCOUNT.

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

	RS. A. P.		RS. A. P.	RS. A. P.
To Balance outstanding as per last account	484 12 11	By payments to Treasury during the half-year	3,63,175 15 0	
,, Earnings during the half-year as per Revenue Account	4,08,454 8 0	,, Interest on Revenue balances	1,170 0 3	
		,, transfer fees received in England ...	685 14 7	
				3,65,031 13 10
		Deduct payments made during July and August on account of outstandings belonging to previous half-years	.....	18,360 11 0
				3,46,671 2 10
		By traffic earnings paid into Treasury during Jan. and Feb. 1872.	.....	62,138 3 0
		,, Balance, *i.e.*, earnings unpaid to Government on 1st March 1872.		4,08,809 5 10
		At stations ...	48 4 0	
		Government ...	24 3 1	
		Public Companies and traders ...	57 8 0	
				129 15 1
Total...	4,08,939 4 11	Total...	.....	4,08,939 4 11

	RS. A. P.
Traffic receipts paid to Government as per above statement ...	4,08,809 5 10
Deduct working expenses as per Revenue Account...	2,30,516 12 2
Balance being net profits for the six months...	1,78,292 9 8

NEGAPATAM,
5th March 1872.

(Signed) J. SMITH,
Chief Auditor.

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

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

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

List of Rates and Fares.

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

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

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

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

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

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

LIST OF MADRAS RAILWAY RATES AND DISTANCES FROM ERODE STATION.

For Goods.

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

For Parcels.

Distance.	100 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 to 100 ,, ...	0 6	0 9	0 12	1 2	1 10	2 2	2 10	3 2	3 10
101 to 150 ,, ...	0 8	0 12	1 0	1 8	2 2	2 12	3 6	4 0	4 10
151 to 200 ,, ...	0 10	0 15	1 4	1 14	2 10	3 6	4 2	4 14	5 10
201 to 250 ,, ...	0 12	1 2	1 8	2 4	3 2	4 0	4 14	5 12	6 10
251 to 300 ,, ...	0 14	1 5	1 12	2 10	3 10	4 10	5 10	6 10	7 10
301 to 350 ,, ...	1 0	1 8	2 0	3 0	4 2	5 4	6 6	7 8	8 10
351 to 400 ,, ...	1 2	1 11	2 4	3 6	4 10	5 14	7 2	8 6	9 10

For Ice, Fish, Meat, and Vegetables.

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

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

For Passengers' Luggage.

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

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

For Horses, Carriages, and Dogs.

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

Dogs.

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

No. 16. ORDER THEREON, 3rd September 1872, No. 2,087.

RAILWAY, No. 4.

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

(Here enter No. 2,088, dated 3rd September 1872.)

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Consulting Engineer for Railways.

Exd. T. O'Conner.

PUBLIC WORKS DEPARTMENT,

OOTACAMUND, *3rd September* 1872.

No. 17.

No. 2,088.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 5.

SIR,—I am directed by His Excellency the Governor in Council to forward the Revenue Account and Analysis of the traffic operations of the Great Southern of India Railway for the half-year ending 31st December 1871.

2. It will be observed from the Consulting Engineer's letter that, owing to a number of references that had to be made to the Agent, these papers could not be submitted earlier. I am also directed to solicit instructions on the several points noticed by Lieutenant-Colonel Shaw-Stewart.

I have the honour to be,

Sir,

Your most obedient servant,

Colonel, R.E.,

Secretary to Government.

Exd. E. C. Shunker.

Great Southern of India Railway.

Table A

16 5

General Statement of Working of half year ending 31st December 1870.

Traffic			Passengers or tons of Goods carried: Number	Percent of total Nos and total Tonnage	Earnings: Amount	Percent of total Earnings from each class of Goods	Percentage of total Earnings contributed by each description of traffic
					Rs		
Coaching	Passengers	1st Class	995	0·24	2,808	2·02	30·19
		2nd "	7,456	1·80	7,124	3·00	
		3rd "	4,04,265	97·96	216,018	90·89	
		4th "					
	Miscellaneous Earning				9,718	4·09	
	Total		4,12,716	100·00	2,37,668	100·00	
			Tons				
Goods	General Merchandise	Special	18,233	40·26	26,264	16·17	39·77
		1st Class	18,638	41·16	74,702	45·98	
		2nd "	4,934	10·90	28,679	17·65	
		3rd "	2,178	4·81	16,819	10·35	
		4th "	736	1·63	7,894	4·86	
		5th "	279	0·61	4,947	3·05	
	Government Stores		8	0·04	83	0·05	
	Railway Materials		279	0·61	2,260	1·39	
	Minerals				808	0·50	
	Miscellaneous Earnings						
	Total		45,285	100·00	1,62,456	100·00	
Miscellaneous, including electric telegraph, steamboat and sundries					8,330	2·04	
Grand Total					4,08,454	100·00	
Less outstandings irrecoverable							
Grand Total					4,08,454		

Financial Results	Coaching: Total	Coaching: Rs. total earnings per train mile	Coaching: Pence per passenger mile	Goods: Total	Goods: Rs. total earnings per train mile	Goods: Pence per ton mile	Total (including Miscellaneous Earnings & less irrecoverable outstandings)	Total	Total (excluding steamboat traffic and contributions to Flotilla Reserve Fund)	Percentage of profits	Rs. per total train mile per week	Rs. per other mile per week	Rs. paid up capital
	Rs	Rs a p	Rs	Rs	Rs a p	Rs	Rs	Rs	Rs		Rs a p	Rs a p	Rs
Earnings.	2,37,668	1-14-1	54·41	1,62,456	1-4-6	37·19	4,08,454	4,08,454	3-3-8	93·51			
Expenses & Mileage	97,668	0-12-4	22·36	1,26,923	1-0-1	29·06	2,30,517	2,30,517	1-13-2	52·77			
Profits	1,40,000	1-1-9	32·05	35,533	0-4-5	8·13	1,77,937	1,77,937	1-6-6	40·74			0·57
Percentage of Expenses to Earnings	41·09			78·12			56·43	56·43					

	Haulage	Passenger	Goods	Mixed	Total
Number of trains run for public traffic				1,346	1,346
Train Mileage (P.I. 1 page 4)				126,524	126,524
Gross-ton Mileage (M.I. 22 page 13)				21,236,130	21,236,130

Description of trains	Average number of Vehicles: Passenger & Mixed trains	Goods trains	Average number of tons per vehicle: Provided	Used	Average weight of trains: Freight or live load	Dead load (exclusive of Engine & Tender)
Passenger 1st class			0·51	20·0	0·88	
Passenger 2nd			0·45	51·6	6·28	
Passenger 3rd			5·05	46·0	22·60	
Passenger Others including Brakes			—	—	—	
			0·93		7·635	41·402
Goods (Vehicles of all kinds including Brakes)		7·57	1·5 to 6 according to nature of goods	Carrying Capacity in Tons. 20·035		44·747
Total		1456		27·670		86·149

(N.B.—For average loads per vehicle see page)

Open Mileage on 31st December 1871	Double	Total	Train Mileage worked over	Average No. of Stations Harmonium	Capacity of sundries and Mileage employed in Passenger Stock	Cost per mile exclusive of Land	Total length of the following gradients: 1/100 and less	1/101 to 1/200	1/201 to 1/300	Steepest gradients worked by: Fixed power	Locomotives	Length	Gradient
Single					£	£	Rich	Rich	Rich	Rich		Rich	
168	—	168	168	21	384,750	8242	3·46	9·11	11·08	Nil	Nil	1·00	1 in 100

(13)

17 6

TABLE B.

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

Reference to Revenue Account: Table and Main head.	Sub-head.	Details.	Number. 2d Half 1870	Number. 2d Half 1871	Fare per Mile. 2d Half 1870	Fare per Mile. 2d Half 1871	Receipts. 2d Half 1870	Receipts. 2d Half 1871	Average Mileage. 2d Half 1870	Average Mileage. 2d Half 1871
					Pies.	Pies.	Rs.	Rs.		
X. (H.) 1	...	1st Class Passengers—								
		Single Journey ...	508	828			2,696	4097		53
		Excess Fares ...	24	46			78	89		
		Return Journey ...	82	164	18	18	300	598		69
		~~Season Tickets~~ ...								
		Troops and Police ...	"	3			-	24		
		Total	590	995			3074	4808	58	55
		~~Season Tickets Term~~ ...	"	"			"	"		
1	...	2nd Class—								
		Single Journey ...	3,684	3584			4244	4220		47
		Excess Fares ...	189	195			93	96		
		Return Journey ...	2120	3704	5	5	1229	2396		47
		~~Season Tickets~~ ...								
		Troops and Police ...	37	167			80	362		
		Total	5841	7455			5646	7074	37	47
		~~Season Tickets Term~~ ...	"	1			"	50		
1	...	3rd Class—								
		Single Journey ...	346,456	342,905			171,416	172,753		35
		Excess Fares ...	416	549			172	257		
		Return Journey ...	30,962	59,198	3	3	20,744	40,604		67
		~~Season Tickets~~ ...								
		Troops and Police ...	1,791	2162			1941	2,402		
		Total	379,209	404,265			194,273	216,018	30	36
		~~Season Tickets Term~~ ...	"	"			"	"		

TABLE B (Continued)

Statement showing in comparison the Coaching Traffic of the half-years ending

Reference to Revenue Account. Table and Main head.	Sub-head.	Details	Number. 2nd Half 1870.	Number. 2nd Half 1871.	Average Mile. 2nd Half 1870.	Average Mile. 2nd Half 1871.	Receipts. 2nd Half 1870.	Receipts. 2nd Half 1871.	Average Mileage. 2nd Half 1870.	Average Mileage. 2nd Half 1871.
1	...	4TH CLASS—			Pies.	Pies.	Rs.	Rs.		
		Single Journey ...								
		Excess Fares ...								
		Return Journey ...								
		Season Tickets ...								
		Troops and Police ...								
		TOTAL...								
2	...	PASSENGERS' LUGGAGE ...	Tons. 65	Tons. 102	See pies per Ton per Mile		1615	2179	70	73
3	...	MILITARY BAGGAGE ...		1			-	34	-	91
4	1	PUBLIC— Carriages ...	No. 52	No. 93	Vide List attached			639	63	99
	2	Horses ...	110	226			1933	1240	76	65
	3	Dogs ...	184	243				195	58	61
5	1	MILITARY— Carriages ...					-	-	-	
	2	Horses ...		3			-	20	-	86
	3	Dogs ...					-	-	-	
6	...	PARCELS	Tons. 167	Tons. 151	Rs.		6250	5353	74	72
7	...	SPECIAL TRAINS ...	No.	No.	Rs.		156	-	-	
8	1	Haulage and hire of Post Office vehicles.								
	2	Special Trains ...								
	3	Parcels	-	1	4 Rs. per Train per mile.		70	58	-	73
		Total					10054	9718		
		Grand Total...					23.047	23.668		

TABLE C.

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

Reference to Revenue Account. Table and Main head.	Sub-head.		Quantity. 2nd half of 1870. Up.	Quantity. 2nd half of 1870. Down.	Quantity. 2nd half of 1871. Up.	Quantity. 2nd half of 1871. Down.	Rate per Ton Mile. 2nd half of 1870.	Rate per Ton Mile. 2nd half of 1871.	Receipts. 2nd half of 1870.	Receipts. 2nd half of 1871.	Average Mileage. 2nd half of 1870.	Average Mileage. 2nd half of 1871.
			Tons.	Tons.	Tons.	Tons.	Pies.	Pies.	Rs.	Rs.		
		GENERAL MERCHANDIZE—										
		Special Class...	2728	1157	2443	15789	8	8	21579	26264	133	35
		1st " ...	9861	12172	6021	12617	12	12	77714	74702	56	64
X. (I.) 1	...	2nd " ...	2524	3929	1645	3289	14	14	33320	23679	90	80
		3rd " ...	754	1288	555	1643	13	13	14203	16914	76	80
		4th " ...	309	808	243	493	24	24	9638	7594	69	84
		5th " ...	74	179	102	578	36	36	5116	4947	92	89
		TOTAL ...	16270	19503	11009	33989			161570	159395	45	56
2	...	Military GOVERNMENT STORES ...								83		86
3	...	RAILWAY MATERIALS FOR CONSTRUCTION ...	62	306	136	143	14	14	1198	2260	77	127
		MINERALS—										
		For the public...										
6	...	" Company.										
		(Construction only)										
		TOTAL ...	62	306	1144	1143			1198	2343	77	127
		GRAND TOTAL	16332	19809	11153	34132			162072	161886		
			Tons.	Tons.	No.	No.	Rate per animal per mile.					
		LIVE STOCK—										
		Horses ...					Vide List attached					
4	...	Cattle ...	6475	1100	80	7			304	195	69	12
		Sheep ...			463	44				43	-	84
		Military GOVERNMENT LIVE STOCK—										
		Horses ...										
5	...	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.
	2 half 1870	2 half 1871	2 half 1870	2 half 1871				
	Tons.	Tons.	Rs.	Rs.	Tons.	Tons.	Rs.	Rs.
Area Nuts	942	771	5391	3354	-	171	-	2037
Cloth	1269	1329	9636	14256	60	-	-	4280
Cutlery Staffs	1321	1752	6696	6022	1431	-	-	594
Fruit and Vegetables	1407	1933	6052	6500	1526	-	448	-
Grain of all kinds	14064	15666	50686	42449	1592	-	-	8237
Granite stones	961	1666	1297	13047	6705	-	5750	-
Hides	236	345	5377	6270	109	-	393	-
Oil and Ghee	351	1716	7691	6283	1365	-	-	1408
Oil cakes	843	2079	6933	6906	1236	-	-	27
Salt	4032	5626	21147	31112	1594	-	9915	-
Sugar of all kinds	925	2334	10768	13468	1409	-	2700	-
Sundries	1981	4026	17101	14808	2045	-	-	2293
Tobacco	327	266	7238	5713	-	62	-	1525
Total	25669	44998	161383	159335	19572	233	17206	21254

TABLE D.

Statement of mileage maintained.*

Reference to Revenue Account.		Details.	2 half of 1870			2 half of 1871				
Table and Main head.	Sub-head.		Departmentally.	By Contract.	Total.	Departmentally.	By Contract.	Total.	Total Increase.	Total Decrease.
IX. (A.)	...	1. Mean miles of line maintained. Single...	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.	13¾	-	13¾	13⅞	-	13⅞	⅛	-
		5. „ Single Track Total including Sidings.	181¾	-	181¾	181⅞	-	181⅞	⅛	-

* 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	1 half, 1870 ... Passenger	119420		9007	H. M. 5-3	H. M. 4511-31	H. M. 1221-3
	Goods						
	Mixed						
	Total ...	119420	"	9007	5-3	4511-31	1221-3
2	2 half, 1871 ... Passenger	126544		3920	0-42	5289-55	1223-25
	Goods						
	Mixed						
	Total ...	126544	"	3920	0-42	5289-55	1223-25
3	Increase in 1871 ... Passenger	7124	"	"	"	778-24	2-22
	Goods						
	Mixed						
	Total ...	7124	"	"	"	778-24	2-22
4	Decrease in 1871 ... Passenger			5087	4-21		
	Goods						
	Mixed						
	Total ...	"	"	5087	4-21	"	"

TABLE E.

Maintenance of Way Works and Stations.

RAILS.

Reference to Revenue Account. Table and Main head.	Sub-head.		Half of 187- Total.	Half of 187- Total.	Half of 187- Increase.	Half of 187- Decrease.	
XIV.	-	Train Mileage (D. I. 1, page 4) ...	119220	126644	7124	-	
		Ton Mileage (M. I. 22, page 13) ...	10842934	21236120	2393186	-	

		DETAILS.	Half of 187- Total.	Half of 187- Total.	Half of 187- Increase.	Half of 187- Decrease.	Per mile of line maintained. D. 3.	Per mile of Track including Sidings. D. 5.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	As.	Rs.
		SUPERINTENDENCE—								
IX. (A) 1	1 & 2	Engineers' salaries and allowances ...	2982	3787	805	-	22·542	20·320	0·507	0·178
	3 to 5	Inspectors' and Platelayers' salaries and allowances, including overtime ...	4709	3878	"	831	23·024	21·022	0·482	0·163
	6	Office expenses	2819	2176	"	643	12·952	11·964	0·291	0·102
If done Departmentally.		MAINTENANCE AND RENEWAL OF PERMANENT WAY—								
	2 1	Wages	21,074	20147	"	927	119·923	110·771	2·699	0·949
	2	Materials	21761	20489	"	1272	121·958	112·651	2·745	0·965
	3	REPAIRS OF BRIDGES, &c. WAGES AND MATERIALS—								
	1	Bridges & Tunnels	369	161	"	208	0·958	0·885	0·022	0·008
	2	Tunnels								
	3	Miscellaneous ...	2797	658	"	2139	3·917	3·618	0·088	0·031
	4	REPAIRS OF STATIONS AND BUILDINGS: WAGES AND MATERIALS—								
	1	Repairs of all except Staff Quarters ...	2067	3126	1059	-	18·607	17·187	0·424	0·147
	2	Repairs of Staff Quarters	342	475	83	"	2·827	2·612	0·064	0·022
	5	MAINTENANCE BY CONTRACT—	-	-	-	"	-	"	"	-
	6	UNCLASSIFIED EXPENDITURE—								
	1	Plantations	1374	103	-	269	0·625	0·577	0·014	0·005
	2	Tools and Plant ...	309	150	-	159	0·892	0·826	0·021	0·007
	3	Loss on Stores, &c. ...	309	3	-	306	0·013	0·012	0·000	0·000
		TOTAL ...	60962	55155	1947	7754	326·304	301·249	7·34	2·597

TABLE E—I.

Maintenance of Way.

RAILS.

Number.	Details.	Double-headed.		Bridge.	Flat-footed.	Others.	Total.
		60 lbs.	lbs.	lbs.	lbs.		
1	Miles of rail in way, including sidings ...	180¼	"	"	"	-	180¼
2	Average age of rails in way at the middle of the half-year *in years* ...	7	"	"	"	"	7
3	Rails inverted { Number ...	1134	"	"	"	"	1134
	{ Miles ...	2·25	"	"	"	"	2·25
4	Proportion inverted per mile of (1) rail	504	"	"	"	-	504
5	Rails renewed { Number ...	86	"	"	"	"	86
	{ Miles ...	·171	"	"	"	"	·171
6	Proportion renewed per mile of (1) rail	502·9	"	"	"	"	502·9
7	Average number of tons hauled over each kind of rail in the half-year...	126400	"	"	"	"	126400
8	Thousands of tons hauled on an average over each kind of rail during the average age of rails in way (2)	2,025,000 ×	"	-	"	"	2,025,000 ×

× Approximately.

TABLE E—II.

Maintenance of Way.

SLEEPERS.

	Details	Wooden sleepers of all description	Iron pot sleepers
		Nos.	
1	Number of sleepers in way including sidings	145442	171798
2	Average age of sleepers in way at the middle of the half-year, in years	10 ×	4¼
3	Number renewed	20364	18
4	do do per cent of (1)	14·0015	·01077

× Since receipt by Store Department

TABLE F.

Locomotive Department Expenses.

Reference to Revenue Account. Table & Main head.	Sub-head.		2d Half of 1870. Total.	2d Half of 1871. Total.	Increase.	Decrease.	
XIV.	...	Train Mileage (D. I. 1, p. 7) ...	119,429	126,544	7,124	"	
		Ton Mileage (M. I. 22, p. 16) ...	16,843,984	21,236,130	2,393,146	"	
		DETAILS.	Half of 1871. Total.	Half of 1871. Total.	Increase.	Decrease.	Per Train Mile.	Per 1,000 Ton Miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
		General Superintendence—						
IX. (B.) 1	1 & 2	Salaries of Locomotive Superintendents and Assistants, including allowances ...	2403	2477	74	"	0·332	0·117
	2 to 5	Ditto of Foremen, including allowances and overtime ...	9,034	6263	"	2,771	0·839	0·295
	6	Office Expenses	2546	2378	"	168	0·314	0·112
		Running Expenses—						
2	1 & 2	Wages of Drivers and Firemen, including overtime ...	16,894	15917	"	267	2·132	0·749
	3	Fuelling, cleaning and looking after Engines	1944	1189	"	663	0·159	0·056
	4	Contingent Expenses ...	"	"	"	"	"	"
		Fuel—						
3	1	Coal	34,112	19,724	"	14,388	2·642	0·929
	2	Coke	"	"	"	"	"	"
	3	Patent Fuel	"	12,064	12,064	"	1·616	0·568
	4	Wood	1,100	1905	805	"	0·255	0·090
4	1, 2 & 3	Water—	1,130	1,109	"	21	0·149	0·052
5	...	Oil, Tallow, &c.—	1,796	1,985	189	"	0·266	0·093
		Maintenance and Renewals—						
6	1 & 2	Wages, including overtime ...	3,373	4,745	1372	"	0·636	0·223
	3	Materials	11,555	14,763	3208	"	1·978	0·695
7	...	Services of other Lines—	"	"	"	"	"	"
8	...	Unclassified Expenditure—	"	183	183	"	0·025	0·009
		Total...	85077	84702	17896	18270	11·348	3·988

			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	1676	1014	"	662	19·02	106·96
	2	Coke do.	"	"	"	"	"	"
	3	Patent Fuel consumed ...	"	606	606	"	11·37	63·92
	4	Wood do. ...	261	382	121	"	7·17	40·29

21 10

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	6 coupled	4 Coupled	4 Coupled	
		Locomotives ... Weight on driving axle ...	9 Tons	10½ Tons	9½ Tons	8 Tons	
		Locomotives ... 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 ...	3·94	3·46	0·42	0·66	8·38
		3.—Average number of Locomotives at work (1—2)	5·06	2·54	3·58	1·44	12·62
		4.—Train miles hauled by each class of Locomotives at work (3)...	71,605	30,044	45,540	14,988	162,177
		5.—Average train miles hauled by each Locomotive at work (3)					
		Per half-year ...	7,956	5,007	11,385	7,494	31,842
		Per day	44	28	62	41	173
		6.—Average speed between stations of trains. Passenger ...	25 Miles per hour	Through Mixed Trains			
		6.—Average speed between stations of trains. Goods ...					
		6.—Average speed between stations of trains. Mixed ...	18 Miles per hour	Local Mixed Trains			
		7.—Average through speed of trains ... Passenger ...	20 Miles per hour	Through Mixed Trains			
		7.—Average through speed of trains ... Goods ...					
		7.—Average through speed of trains ... Mixed ...		15 Miles per hour	Local Mixed Trains		
		8.—Weight of coal, &c., used per train mile ... (To be separated if possible among the classes of Locomotives.)	21·6	32·9	21·1	9·2	21·75
		9.—Weight of wood used per train mile ... (To be separated if possible among the classes of Locomotives.)	6·3	3·7	2·3	8·3	5·27
		10.—Average gross weight of the trains hauled by each class of Locomotive		Not recorded.			

TABLE G.

Carriage and Wagon Expenses.

Reference to Revenue Account.		Details.	2d Half of 1870.	2d Half of 1871.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
XIV.		Train Mileage (D. I. 1, p. 7)	119420	126644	7124	..		
		Vehicle Mileage. Coaching (M. I. 8, ~~p. 16~~) ...	745424	869671	124247			
		Vehicle Mileage. Goods (M. I. 14, ~~p. 16~~) ...	331872	963453	-	368419		
		Vehicle Mileage. Total	2077296	1833124	-	244172		
IX. (C.) 1.	1 & 2	General Superintendence— Salaries of Superintendents and allowances ...	1282	360	"	122	0·048	0·196
	3 to 5	Salaries of Foremen and allowances, including overtime	859	703	"	156	0·094	0·384
	6	Office Expenses	295	306	11	"	0·041	0·167
2	1 to 3	Repairs and Renewals of Vehicles and Machinery— Coaching Vehicles. Wages including overtime ...	755	1,211	456	"	0·162	(a) 1·392
		Coaching Vehicles. Materials ...	2,428	5,346	2,917	"	0·716	(a) 6·146
	1 to 3	Goods Vehicles. Wages, including overtime ...	1,003	2,048	1,045	"	0·275	(b) 2·126
		Goods Vehicles. Materials ...	6,268	7,980	1,712	"	1·069	(b) 8·283
3	1	Cleaning and Oiling— Labor, including wages of oilers, &c.	647	1,294	647	"	0·173	0·706
	2	Stores	1,224	946	"	278	0·127	0·516
4	...	Unclassified Expenditure—	"	"	"	"	"	"
		Total ...	13,281	20,193	7,998	1,356	2·705	11·016

TABLE H.

Traffic Expenses.

Reference to Revenue Account.		Details.	2d Half of 1870.	2d Half of 1871.				
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.	Cost per 1,000 Vehicle Miles.
			Rs.	Rs.	Rs.	Rs.	As.	Rs.
XIV.	...	Train Mileage (D. I. 1, p. 7)...	119420	126644	7124	-		
		Vehicle Mileage. Coaching (M. I. 8, ~~p. 16~~) ...	745424	869671	124247	-		
		Vehicle Mileage. Goods (M. I. 14, ~~p. 16~~) ...	331872	963453	-	368419		
		Vehicle Mileage. Total	2077296	1833124	-	244172		
IX. (D.) 1.		Salaries, Wages, &c. ...						
	(1 & 3) a	General Superintendence, including travelling allowances	3456	3570	115	"	0·478	1·948
	(2 & 4) a	Office Establishment and Contingencies	594	558	-	36	0·075	0·304
	b	Station Staff	11,594	14,124	"	470	1·892	7·704
	c	Train Staff	2,859	2,752	-	107	0·369	1·501
2	1 to 3	Fuel, Lighting, Water and General Stores	4,028	1,136	"	2,892	0·152	0·620
3	...	Clothing	424	763	339	"	0·102	0·416
4	...	Printing, Stationery and Tickets	1,962	1,425	-	537	0·191	0·777
5	...	Cattle used for Traffic purposes, and Delivery and Collection of Goods ...	"	"	"	"	"	"
		Greasing Rolling Stock	"	"	"	"	"	"
6	...	Miscellaneous Expenses ...	235	246	11	-	0·033	0·134
		Recoverable Services of other Lines—						
7	1	Hire of Vehicles ...	"	-	"	"	"	"
	2	Mileage of Foreign Stock...	656	1262	596	"	0·168	0·683
	3	Use of Stations	5,534	6,041	487	-	0·809	3·296
8	...	Unclassified Expenditure ...	"	"	"	"	"	"
		Total	34,361	31,867	1,548	4,042	4·269	17·383

TABLE J.

General Charges.

Reference to Revenue Account.		DETAILS.	2nd half of 1870	2nd half of 1871.			
Table and Main head.	Sub-head.		Total.	Total.	Increase.	Decrease.	Cost per Train Mile.
			Rs.	Rs.	Rs.	Rs.	As.
IX. (E.) 1	...	Home Expenditure	9411	11071	1660	"	1·484
		Indian Management—					
2	1	Agent's Office, including travelling and other allowances	10283	12449	2166	"	1·664
	2	Auditor's Office, ditto. ...					
	3	Account's Office, ditto. ...					
	4	Pay Master's Office, ditto. ...					
	5	Store Department, ditto. ...	1689	3270	2730	"	0·438
	6	Medical Department, ditto. ...		1149			0·154
	7	Rents					
	8–10	Contingencies, Stationery, and Medicine	783	1341	258	"	0·126
3	...	Police (*Total Charges*) ...					
4	...	Advertising	68	125	57	"	0·017
		Electric Telegraph—					
5	1 to 4	Salaries, &c.	4427	3070	"	757	0·412
	5	Maintenance (labour and stores) ...	22	154	132	"	0·022
6	...	Clearing Accounts with other Lines	"	"	"	"	"
7	...	Unclassified Expenditure ...	"	"	"	"	"
		Loss on Metal	"	"	"	"	"
		"					
		Total ...	26683	32324	7003	757	4·331

TABLE K.

Steam Boat Service.

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

TABLE L.

Special and Miscellaneous Expenditure.

IX. (G.) 1.	...	Law Charges—	3	11	8	"
2	1	Compensation— Claims for Goods, &c.	89	59	"	30
	2	Personal injury	"	"	"	"
3	...	Rates and Taxes—	1593	1200	"	393
4	1	Contributions to Special Funds— Fire Insurance Fund	5000	5000	"	"
	2	P. W. Renewal Fund	"	"	"	"
	3	Casualty Fund	"	"	"	"
		Value of boats purchased	821	"	"	821
		Total ...	7506	6270	8	1244

P. W. 3898/72.

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 ...										
2	2nd " ...										
3	3rd " ...										
4	4th " ...										
5	Carriage Trucks ...										
6	Horse Boxes.										
7	Luggage Vans ...										
8	Total Coaching Vehicle Mileage ...										
9	Passenger Engines & Tenders ...										
10	Passenger Brake-vans										
11	Total Coaching Ton Mileage ...										

Analysis of Carrying Cost.

Table M-I.

Definitions

The unit of passenger traffic is = 1 Passenger plus free luggage.
" " parriages is = 1 Carriage.
" " horses is = 1 Horse
" " luggage is = 1 Ton
" " post office vehicles is = 1 "
" " goods is = 1 "
" " cattle. is = 1 "

Approximate weight of units adopted in these calculations.

	Coals	Ton.
Coaching		
1st class Passenger with free luggage	1.75 =	0.0875
2nd " " " " "	1.75 =	0.0875
3rd " " " " "	1.25 =	0.0625
4th " " " " "	1.25 =	0.0625
A parriage (average for two and four wheels)	6.75 =	0.3375

	Cost.	Ton
Coaching - (panels)		
A horse	8.75 =	0.4375
A Dog	0.20 =	0.0100
Goods		
A head of harness cattle	5.00 =	0.2500
A head of sheep, goats, &c.	0.50 =	0.0250

Details	Total mileage of each description of rolling stock.	Total mileage of units of traffic	Average contents in units of each vehicle. No.	Weight in tons	Average weight of rolling stock in tons	Total average weight including contents of each vehicle in tons	Tons of vehicles and freight per ton of freight	Ton Mileage Of Freight	Ton Mileage Of Dead Weight	Total Ton Mileage Excluding engines and tenders and Brake Vans	Ton Mileage Including engines and tenders and Brake Vans.
Coaching.											
1 1st class	64.618	56.758	0.878	0.077	7.29	7.367	95.85	4.966	471.065	476.031	
2 2nd "	56.958	357.536	6.273	0.549	7.22	7.769	14.15	39.284	448.453	442.737	
3 3rd "	638.481	14.441.589	22.620	1.444	6.58	6.994	4.95	902.600	3.561.145	4.463.745	
4 4th "	-	-	-	-	-	-	-	-	-	-	
5 Carriage trucks	5.066	6.109	1.222	0.413	5.06	6.473	13.27	2.059	25.134	27.923	
6 Horse boxes	18.391	14.875	0.809	0.364	7.06	7.424	20.95	6.501	129.866	136.374	
7 Luggage, Parcels and Dog Vans	86.177	18.659	0.217	0.217	6.11	6.327	29.22	18.659	526.502	545.201	
7A Post office vehicles	-	-	-	-	-	-	-	-	-	-	
8 Total	869.671										
9 Passenger engines and tenders								966.106	5.125.705	6.091.811	
10 Passenger brake vans	18.565										
11 Total Coaching Ton Mileage.								966.106	8.076.210	6.091.811	9.042.316
Goods.											
12 Goods vehicles.	961.519	2.631.998	2.633	2.623	5.73	6.363	3.176	2.631.998	4.500.613	5.032.611	
12A Cattle vans	1.934	37.861 ②	19.318	1.614	6.11	7.724	4.776	3.121	11.818	14.939	
13 Mineral trucks	-	-	-	-	-	-	-	-	-	-	
14 Total	963.453							2.635.119	4.512.431	5.047.550	
15 Goods engines and tenders					4.64				3747.897		
16 Goods brakes	24.524				6.11				149.842		
17 Total Goods Ton Mileage								2.635.119	9.409.170	8.047.550	11.945.289
Miscellaneous not otherwise carried for on Revenue account.											
18 Post Traffic Department	397	2.580	6.499	6.499	5.99	12.489	1.922	2.580	2878	4.958	
19 " Locomotive "	4.882	18.004	3.845	3.845	4.94	8.785	2.284	18.004	22.129	41.133	
20 " Engineering "	4.690	20.697	4.413	4.413	6.26	9.673	2.192	20.697	24.669	45.366	
20A Total	19.669							41.281	50.176	91.457	
20B Engines and tenders					39.67				157.068		
20C Brake-vans											
21 Total Miscellaneous Ton Mileage								41.281	207.244	91.457	248.525
22 Total Ton Mileage.								3.542.506	17.693.624	14.230.818	21.236.130

② Mileage of Horned Cattle. 9.720
do do sheep. 27.641
Total. 37.361.

M—II

Division between Coaching and Goods of the Expenditure of Department

Details	Maintenance Locomotive	Carriage and Wagon	Traffic	General	Special & Miscellaneous Permanent Way Renewal Fund	Special & Miscellaneous other items	Total
Expenses due to Coaching	22,680	36,426	7,753	15,077	13,830	1,902	97,668
" " Goods	29,962	48,120	11,355	16,703	18,271	2,512	126,923
Total	52,642	84,546	19,108	31,780	32,101	4,414	224,591

M-III

Distributed cost of carrying the Vehicles of each class including freight

Details	1st Class Carriages	2nd Class Carriages	3rd Class Carriages	4th Class Carriages	Carriage Trucks	Horse boxes	Luggage Vans	Post Office Vehicles	Total Coaching Stock	Goods Vehicles	Cattle Vans	Mineral Trucks	Total Goods Stock.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Maintenance	1,772	1,648	16,619	-	103	508	2,030	-	22,680	29,906	56	-	29,962
Locomotives	2,847	2,647	26,691	-	166	815	3,260	-	36,426	48,031	89	-	48,120
Carriage & Wagon	546	568	6,692	-	45	164	768	-	7,753	11,332	23	-	11,355
Traffic	1,120	988	11,068	-	88	319	1,494	-	15,077	16,669	34	-	16,703
General	1,028	906	10,153	-	81	292	1,370	-	13,830	18,234	37	-	18,271
Special and Miscellaneous — P.W. Renewal Fund													
Special and Miscellaneous — Other items	141	125	1,396	-	11	40	189	-	1,902	2507	5	-	2,512
Total	7,484	6,822	71,619	-	494	2,138	9,111	-	97,668	126,679	244	-	126,923

M–IV.

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

Details	1st class	2nd class	3rd class	4th class	Carriage Trucks	Horse boxes	Luggage Vans	Post office Vehicles	Goods Vehicles	Cattle Vans	Mineral Trucks
	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies	Pies
Maintenance	5·266	5·553	4·998	.	3·912	6·300	4·522	.	5·972	5·522	.
Locomotive	8·458	8·919	8·027	.	6·283	8·513	7·263	.	9·591	8·868	.
Carriage & Wagon	1·712	1·712	1·712	.	1·712	1·712	1·712	.	2·263	2·263	.
Traffic	3·329	3·329	3·329	.	3·329	3·329	3·329	.	3·329	3·329	.
General	3·053	3·053	3·053	.	3·063	3·053	3·053	.	3·641	3·641	.
Special and Miscellaneous — P.W. Renewal Fund	.	.	.	.	.	.	.	.	.	.	.
Special and Miscellaneous — other items	0·420	0·420	0·420	.	0·420	0·420	0·420	.	0·500	0·500	.
Total	22·238	22·986	21·539	.	18·709	22·327	20·299	.	25·296	24·123	.
Cost per unit	25·317	3·664	0·952	.	15·325	27·596	93·752	.	9·606	1·254	.

M–V.

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

Details	Average receipts per unit per mile	Actual cost per unit per mile	Profit per unit per mile	Loss per unit per mile	Proportion Per cent of profits to receipts.
	Pies	Pies	Pies	Pies	
Coaching					
1st Class	16·264	25·317		9·053	
2nd	3·799	3·664	0·155		4·080
3rd	2·872	0·952	1·920		66·854
4th	.	.	.		.
Carriages	19·824	15·325	3·499	—	17·605
Horses	16·263	27·596		11·333	
Luggage	80·447	93·752		13·305	
Post office vehicles	.	.	.	.	.
Goods					
Merchandise including Govt. Stores & Railway Materials	12·258	9·606	2·652		21·635
Cattle	1·218	1·254		0·036	
Minerals	.	.	.	.	.

Dr. No. 149.

Great Southern of India Railway.

Cr.

Statement of Revenue Account for the half year ending 31st December 1871.

Half year ended 31st December 1870. Train Miles 1,19,420.				Amount.			Train Miles 1,26,544. Cost per Train Mile.	Per centage of Working Expenses.	Per-centage of Revenue.	Half year ended 31st December 1870.				Amount.			Earnings per Train Mile.
							Annas.										Annas.
60,962	6	3	To Maintenance of Way & Works (A)	55,155	4	1	6.97	23.93	13.50	2,13,046	13	0	By Coaching Traffic (H)	2,37,668	3	1	30.05
85,076	9	1	„ Locomotive Expenses (B)	84,701	12	9	10.71	36.75	20.74	1,63,166	...	11	„ Goods Do. (I)	1,62,456	5	5	20.54
13,761	7	7	„ Carriage & Wagon Expenses (C)	20,192	9	8	2.55	8.76	4.95	2,058	6	8	„ Electric Telegraph Receipts ...	2,404	11	10	.30
34,361	5	10	„ Traffic Expenses (D)	31,867	7	2	4.03	13.82	7.80	7,505	1	8	„ Sundry Do. (K)	5,925	3	8	.75
20,082	11	4	„ General Charges (E)	32,329	6	5	4.09	14.02	7.91								
7,506	0	5	„ Special and Miscellaneous (G)	6,270	4	1	.79	2.72	1.54								
2,27,750	8	6		2,30,516	12	2	29.14	100.00	56.44								
1,58,025	13	9	Balance.....	1,77,937	11	10	22.50	...	43.56								
3,85,776	6	3	Total Rs	4,08,454	8	0	51.64	100.00	100.00	3,85,776	6	2	Total Rs.....	4,08,454	8	...	51.64

Negapatam,
March 5th 1872.

Chief Auditor.

Assistant Controller D. P. W. Railway Branch.

Agent and Traffic Manager.

Consulting Engineer for Railways.

ABSTRACT A

Maintenance of Way and Works.

		Rs.	A.	P.	Rs.	A.	P.
(1)	Salaries, Office Expenses and General Superintendence ...	...	...	...	9,840	11	4
	1. Engineer's Salary	3,136	6	...			
	2. Allowances of ditto including travelling allowances	350	...	...			
	3. Subordinate Superintendents	3,698	4	...			
	4. Allowances of do.	180	...	...			
	6. Office Expenses	2,176	1	4			
(2)	Maintenance and Renewals of Permanent Way ..	...	...	...	40,636	0	3
	1. Wages	20,147	1	3			
	2. Materials	20,488	15	0			
(3)	Repairs of Bridges &c. Wages and Materials ...	...	...	...	819	6	4
	1. Bridges	161	1	0			
	2. Miscellaneous including earthwork, roads, fencing &c.	658	5	4			
(4)	Repairs of Stations and Buildings—Wages and Materials ...	...	...	...	3,601	0	10
	1. Repairs of Buildings of every description including Station-yards, Signals &c. ...	3,126	0	4			
	2. Repairs of Staff Quarters	475	0	6			
(6)	Unclassified Expenditure	...	...	...	258	1	4
	1. Plantations	105	4	2			
	2. Tools and Plant	149	12	2			
	3. Miscellaneous	3	1	...			
		Total Rs...			55,155	4	1

Miles Maintained.		Departmentally.	By Contract.	Total.
Railway Lines ...	Double ...	Nil.	Nil.	Nil.
	Single ...	168	Nil.	168
	Sidings ...	13¾	Nil.	13¾
			Total.....	181¾

ABSTRACT B

Locomotive Expenses.

		Rs.	A.	P.	Rs.	A.	P.
(1)	General Superintendence	...	...	...	11,117	14	4
	1. Salary of Locomotive Superintendent ...	2,258	3	3			
	2. Allowances of do. including travelling allowances	218	8	11			
	3. Subordinate Superintendents	6,164	13	...			
	4. Allowances of do. including travelling allowances	4	2	6			
	5. Overtime allowances	94	4	4			
	6. Office Expenses	2,377	14	4			
(2)	Running Expenses	...	...	...	17,106	8	8
	1. Wages of Drivers and Firemen... ...	13,400	9	...			
	2. Overtime and Allowances ...	2,516	9	...			
	3. Labour connected with fuelling, cleaning and looking after engines in yards ...	1,189	6	8			
(3)	Fuel	...	...	...	33,692	11	2
	1. Coal Tons 1013 Cwts 15 ...	19,724	2	6			
	3. Patent Fuel " 606 " 10 ...	12,063	9	6			
	4. Wood " 381 " 18 ...	1,904	15	2			
(4)	Water—Wages and Stores	...	...	...	1,108	15	10
(5)	Oil, Tallow & Other Stores expended on Engines in Work	...	...	...	1,985	1	1
(6)	Maintenance & Renewals of Locomotive Engines & Machinery ...	4,676	2	8	19,507	9	8
	1. Wages	68	3	8			
	2. Overtime	14,763	3	4			
	3. Materials	...	...	...	183	...	...
(8)	Unclassified Expenditure ... . Tools and Plant ...	183	...	...			
		Total Rs.....			84,701	12	9

ABSTRACT C

Carriage and Wagon Expenses.

		Rs.	A.	P.	Rs.	A.	P.
(1)	General Superintendence	...	...	...	1,368	14	8
	1. Salary of Superintendent	343	10	3			
	2. Allowances of do. including travelling allowances	16	7	1			
	3. Subordinate Superintendents	692	11	9			
	4. Allowances of do. including travelling allowances	...	7	11			
	5. Overtime allowances	10	6	7			
	6. Office Expenses	305	3	1			
(2)	Repairs and Renewals of Vehicles and Machinery ...	...	...	...	16,583	10	4
	Coaching Vehicles 1. Wages ... Rs 1,210 A. 11 P. ...						
	2. Overtime						
	3. Materials ... 5,344 15 2	6,555	10	2			
	Goods Vehicles 1. Wages ... 2,022 12 4						
	2. Overtime ... 24 13 2						
	3. Materials ... 7,980 6 8	10,028	...	2			
(3)	Cleaning Carriages and Wagons and Oiling ...	...	...	...	2,240	...	8
	1. Labour including Wages of Oilers, Carriage cleaners, and Examiners	1,293	11	10			
	2. Oil, Grease and other Stores	946	4	10			
		Total Rs.....			20,192	9	8

ABSTRACT D
Traffic Expenses.

				Rs.	A.	P.	Rs.	A.	P.
(1)	Salaries, Wages &c.			...	...	...	21,003	13	
	a. General Superintendence			4,128	6	...			
	1. Assistant Traffic Manager	3,000							
	2. Office Establishment	552							
	3. Travelling Allowances	570							
	4. Contingencies	6	6						
	b. Station Staff			14,123	7	1			
	1. Station Masters, Clerks, Porters, Gatekeepers at Level Crossings &c.								
	c. Train Staff			2,752	...	...			
	1. Guards and Assistant Guards								
(2)	Lighting, General Stores &c.			...	...	...	1,136	2	6
	1. Lights, General Stores &c. for Stations, Carriages, Offices &c.			1,096	1	1			
	3. Office and Station Fittings and Furniture			40	1	5			
(3)	Clothing			...	...	...	763	8	...
(4)	Printing, Stationery, and Tickets			...	...	...	1,425	4	1
(6)	Miscellaneous expenses			...	...	...	246	...	...
(7)	Payments to other Lines			...	...	...	7,292	11	6
	2. Mileage of foreign Stock			1,251	7	3			
	3. Expenses at Joint Station *(Erode)* including rent			6,041	4	3			
	Total Rs.....						31,867	7	2

ABSTRACT E
General Charges.

				Rs.	A.	P.	Rs.	A.	P.
(1)	Home Expenditure			...	...	...	11,071	7	3
	1-2. Directors, Secretary, Auditors, & Accountants...			7,658	2	11			
	3. Consulting Engineer & Inspecting Officers' fees and travelling allowances			2,324	10	10			
	4. Office Expenses			1,088	9	6			
(2)	Salaries of Indian Management including Offices			...	...	...	17,908	13	3

	Salaries.			Travelling Allowances.			Contingencies.		
1. Agent's Office including Audit and Accounts.	12,391	2	8	...	13	...	57	4	3
5. Store Department	3,256	14	7	12	11	10	...	...	...
6. Medical Do.	1,129	10	10	5	6	4	13	13	4
	16,777	12	1	18	15	2	71	1	7

	8. Contingencies, including furniture and fittings...			16,867	12	10			
	9. Stationery...			487	2	8			
	10. Medicines			308	15	7			
				154	13	12			
(4)	Advertising			...	...	...	125	9	...
(5)	Electric Telegraph			...	...	...	3,223	9	11
	2. Signallers			2,591	8	...			
	4. Office Expenses, Contingencies			478	8	3			
	5. Maintenance—Wages and Stores			153	9	8			
	Total Rs.....						32,329	6	5

ABSTRACT G
Special and Miscellaneous Expenses.

		Rs.	A.	P.
(1)	Law charges	11	4	...
(2)	Compensation	58	15	...
	1. For Goods lost or damaged			
(3)	Rates and Taxes...	1,200	1	1
(4)	Contribution to Special Funds...	5,000	...	...
	1. Fire Insurance Fund			
	Total Rs	6,270	4	1

ABSTRACT H
Coaching Traffic.

Ordinary Mileage Fares.	1st Class. 18 pice.			2nd Class. 5 pice.			3rd Class. 3 pice.			Total.			
	No.	Amount.		No.	Amount.		No.	Amount.		No.	Amount.		
		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.	P.
(1) Passengers.													
Single Journeys	828	4,097	5	3,584	4,219	13	3,42,905	1,72,753	2	3,47,317	1,81,070	4	...
Excess Fares...	46	89	3	195	96	...	549	258	9	790	443	12	...
Return Journeys.	164	597	8	3,704	2,396	2	59,198	40,604	8	63,066	43,598	2	...
Troops & Police	3	24	3	167	362	3	2,162	2,401	10	2,332	2,788	...	...
Total...	1041	4,808	3	7,650	7,074	2	4,04,814	2,16,017	13	4,13,505	2,27,900	2	...
Season Ticket.	...	...	...	1	50	...	...	...	...	1	50	...	...

				Total ..	...	2,27,950	2	...	
(2)	Passengers' Luggage			Ton Miles,	7,369.69	2,179	4	4	
(3)	Military Baggage			do	110.94	33	11	...	
(4)	Carriages, Horses, and Dogs...			...	...	2,074	5	...	
	Carriages ... No. 93 Rs. 639 - 6 - 0								
	Horses ... „ 226 „ 1,240 - 1 - 0								
	Dogs ... „ 243 „ 194 - 14 - 0								
(5)	Military Carriages, Horses &c.			...	...	20	3	...	
	Horses ... No. 3 Rs. 20 - 3 - 0								
(6)	Parcels			Ton Miles,	10,930.32	5,352	12	...	
(8)	Post-office			do	100.03	57	13	9	
	3—Parcels								
	Total Rs... .					2,37,668	3	1	

ABSTRACT I
Goods Traffic.

		Rate per Ton per Mile.	Ton Miles	Amount.			Total.		
				Rs.	A.	P.	Rs.	A.	P.
(1)	Merchandize General	...	...	...	...	...	1,59,305	...	...
	1st Class	12 pice.	1,196,799	74,701	8	...			
	2nd do	14 „	3,93,472	28,678	13	...			
	3rd do	18 „	1,74,654	16,819	3	...			
	4th do	24 „	62,018	7,894	6	...			
	5th do	36 „	24,715	4,946	12	...			
	Special	8 „	6,46,245	26,264	6	...			
(2)	Military Stores	...	688	...	...	...	83	...	...
(3)	Railway Materials for Construction	...	33,407	...	...	...	2,252	12	...
(5)	Live Stock	...	...	...	...	...	237	15	...
	Cattle	...	243	195	7	...			
	Sheep &c.	...	691	42	8	...			
(7)	Rents and Demurrage, Wharfage, Storage &c.	...	...	...	...	...	570	9	5
				Total Rs ...			1,62,456	5	3

ABSTRACT K

Sundries.

						Rs.	A.	P.
Interest on Revenue Balances deposited with Government						1,170	...	3
Mileage of Vehicles over Foreign Lines	...	...	...	...	...	1,077	13	8
Rents of Dwelling Houses	...	...	...	...	...	1,862	6	4
Fees on Share Transfers &c.	..	...	...	...	...	685	14	7
Sale of unclaimed and damaged Goods	...	...	...	...	...	107	..	10
Sale of Revenue Stores	...	...	...	...	..	1,022	...	...
Maintenance								
Locomotive	...	...	..	650	13	..		
Carriage and Wagon	...	...	..	156	4	...		
Traffic	...	...	..	6	15	7		
General	...	...	...	86	15	5		
		...	...	...	121	...	...	
					Total Rs.....	5,925	3	8

MILEAGE STATEMENT.

				Miles.
Lines owned by Company.	Sanctioned not Commenced	...	...	"
" "	Under Construction ...	...	...	"
" "	Constructed and not worked	...	...	"
" "	" and worked by Company	...	...	168
" "	" " by others	...	...	"
			Total.....	168

Lines worked by Company					
" Its own	...	...	...	...	"
" Foreign	...	...	...	...	168
		...	...	...	"
			Total.....		168

Foreign lines worked over by Company	...	...	Nil.

STATEMENT OF TRAIN MILEAGE.

		No.	Estimated Locomotive Expenses.
Train Miles run			Rs.
For Traffic Department	...	1,26,544	66,041
" Locomotive Department	...	...	...
" Maintenance "	...	3,920	2,046
	Total.....	1,30,464	68,087
Hours of		H. M.	
Assisting Engines	...	0 . 42	7
Shunting, Piloting &c.	...	5,289 . 55	15,263
Miscellaneous Services	...	1,223 . 25	1,339
	Total.....	6,514 . 2	16,614
	Total Cost Rs...		84,701

Form No. XVI.

Great Southern of India Railway.

GOVERNMENT FORM OF ACCOUNT.

STATEMENT of Net Profits for the half year ending 31st December 1871.

		Rs.	A.	P.
To	Balance Outstanding as per last Account...	484	12	11
„	Earnings during the half year as per Revenue Account	4,08,454	8	...
	Rupees.....	4,08,939	4	11

			Rs.	A.	P.
By	Payments to Treasury during the half year...	Rs. 3,63,173-15-0			
„	Interest on Revenue Balances ...	„ 1,170-0-3			
„	Transfer Fees received in England ...	„ 685-14-7	3,65,031	13	10
	Deduct payments made during July and August on account of outstandings belonging to previous half-years		18,360	11	...
			3,46,671	2	10
	By Traffic Earnings paid into Treasury during January & February 1872		62,138	3	...
			4,08,809	5	10
„	Balance *i. e.* earnings unpaid to Government on 1st March 1872...				
	At Stations	Rs. 48-4-0			
	Government	„ 24-3-1			
	Public Companies and Traders ..	„ 57-8-0	129	15	1
	Rupees.....		4,08,939	4	11

Traffic Receipts paid to Government as per above Statement	Rupees ..	4,08,809-5-10
Deduct Working Expenses as per Revenue Account		2,30,516-12-2
Balance being net profits for the six Months...		1,78,292-9-8

NEGAPATAM,
Chief Auditor's Office,
March 5th 1872.

Chief Auditor.

Assistant Controller.

Agent and Traffic Manager.

Consulting Engineer for Railways.

P.W. 5894/2.

3v

Rules of Stakes and Stakes

Rules and Rules - Officers

Rules for Rules for Rules

Rules Recommendation and Rules Commutations

Rules and Rules Travel Second Class

Rules of the Land Rate.

Rules - Rules are charged on

Rules of the ordinary Fares.

Rules Rules - Should Rules are

Rules a charge of Rupee a mile when conveying

of an Engine, a carriage, and Brakesman only,

different recommendation than is required,

the extra Passengers are charged at ordinary

Fares.

Baillie Station Rules will be charged

for at the rate of 12 Annas per mile. Rules

on wagon loads of fifty or any less number,

and

and cattle for slaughter in wagon loads of eight or less any number will be conveyed, as under :-

	Per Truck per Mile.
From 1 to 50 miles	0. 2. 6
" 51 to 100 "	0. 2. 3
" 101 to 150 "	0. 3. 0
" 151 miles and upwards	0. 2. 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 wagons 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.

33 1/2 4

Classification of Goods.

For Parcels

Distance	100 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
	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.
1 to 50 miles	0 4	0 6	0 8	0 12	1 2	1 8	1 14	2 4	2 10
51 to 100	0 6	0 9	0 12	1 2	1 10	2 2	2 10	3 2	3 10
101 to 150	0 8	0 12	1 0	1 8	2 2	2 12	3 6	4 0	4 10
151 to 200	0 10	0 15	1 4	1 14	2 10	3 6	4 2	4 14	5 10
201 to 250	0 12	1 2	1 8	2 4	3 2	4 0	4 14	5 12	6 10
251 to 300	0 14	1 5	1 12	2 10	3 10	4 10	5 10	6 10	7 10
301 to 350	1 0	1 8	2 0	3 0	4 2	5 4	6 6	7 8	8 10
351 to 400	1 2	1 11	2 4	3 6	4 10	5 4	7 2	8 6	9 10

For Ice, Fish, Meat & 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
	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.	As. P.
1 to 50 miles	0 3	0 5	0 6	0 9	0 12	0 15	1 2	1 8	2 0
51 to 100	0 5	0 6	0 8	0 12	0 15	1 2	1 5	1 14	2 7
101 to 200	0 8	0 9	0 12	1 2	1 4	1 7	1 10	2 7	3 0
201 to 300	0 9	0 12	0 15	1 5	1 8	1 11	1 14	3 0	3 11
301 to 400	0 11	0 15	1 2	1 8	1 13	2 0	2 2	3 9	4 4

Packages

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

For Passengers' Luggage.

First Class _____ 82 lbs free

Second _____ " 25 . .

Third _____ 15 . .

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

For Horses, Carriages & Dogs.

1 Horse _____ 1½ Annas per mile

2 Horses (if one property) 2½ _____

3 Horses (do) 3 _____

Four-wheeled carriage 2½ _____

Two _____ 1½ _____

Palanquin _____ 1 _____

Dogs

Dogs	R. a. p.	
1 to 50	0 8 0	each
51 to 100	1 0 0	.
101 to 150	1 4 0	.
151 to 200	1 8 0	.
201 to 250	1 12 0	.
251 to 300	2 0 0	.
301 to 350	2 4 0	.
351 to 400	2 8 0	.

P.W. 3898/72.

35 /

RAILWAY DEPARTMENT. CONSULTING ENGINEER'S OFFICE.

No. 417

From Lieut Colonel J. H. M. Haw Stewart R.E.

Consulting Engineer for Railways,

To Colonel G. W. Walker R.E.

Secretary to Government,
Public Works Department,
Fort Saint George.

SIR,

I have the honour to forward herewith the Review of the Revenue Account of the Great Southern of India Railway for the second half of 1871.

2 The preparation of the Review has been greatly delayed by a number of References to the Agents of the Railway Company, the necessity for which will, it is hoped, be avoided in future.

3

3 Every endeavour has been made to render the Review as complete as possible, and to avoid such imperfections as have been previously remarked upon by the Government of India.

4 The revised form for Table A, which should have accompanied Government of India's Resolution Public Works Department (R) dated 29th September 1871, No. 1875 (R), was not received in this Office until the 31st October. This is therefore the first Review in which Table A has been prepared in accordance with the revised form.

5 Instructions are requested upon the following points:-

Table F.I.

Weight on driving axles of locomotives.

What information is required under this head? Should it be the total weight on all coupled axles?

Train miles hauled by each class of locomotives at work.

Are train-miles or engine-miles to be given? The Return furnished by the Agent of Great Southern of India Railway gives engine-miles.

Average speed between stations of trains,

and

Average through speed of trains.

The speeds hitherto (and now) given are the time-table speeds. The actual speeds can of course be worked out from the engine drivers' tickets and guards' journals, but if this

Letter 2729 of 27th October 1871.

Table E.I.

Thousands of tons hauled over each kind of rail.

This information cannot be accurately rendered under the mileages of vehicles and freight are separately recorded for each portion of the line laid with a particular kind of rail.

Tables E and F.

The ton mileage used in the calculations of these tables does not include ton-mileage run on Capital account; e.g. ballasting on line open less than two years. Should this be allowed for?

Table G.

The vehicle mileage used in

This is done throughout the half-year the labour will be very great. Will it be sufficient to do this for one or two weeks in the half-year?

Average gross weight of the trains hauled by each class of locomotive.

In order to render this information accurately the mileage of vehicles and of freight must be separately recorded for each class of engines. This will involve a very great deal of labour. Will an approximation derived from the working of a fortnight, or a month, in each half-year, suffice?

Table

in calculations. The table does not include mileages of locomotives, mileage of vehicles sent free on Revenue Account, or mileages of vehicles travelling on Capital Account &c. The same vehicle mileage is used in table H, and as the object is to arrive at the cost per vehicle mile sent for traffic purposes, there seems object; but in table L. the object is different, and it would appear that the total mileage should be included.

Madras 8th August 1872

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

Thomas Stevens Fyball Capt. Secy: Engr. for Railways

Public Works Department

No 2087

Proceedings of the Madras Government
Nos 2087 to 2088 dt 3rd Sept 72
Read the following

From The Consulting Engineer
for Railways.
To the Secretary to Government.
No 417 dt 8th August 1872

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

N. E. Ms Sd

No 2088

Sd/ Illegible
Secy to the
Government of India.

Sent to Mr Cole
Dept 9/9/72

Sent directed by
His Excellency the Governor
in Council to forward
the

P. W. 1872 Sept
Rec'd from Govt for Sept Records
No. 3898

RAILWAY DEPARTMENT.

1872.

From

The Consulting Engineer
for Railways,

To

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

Dated 8th
Recd. 12th August 1872.

Encl: 5 V

No. 417

Forwarding
the Review of the
Revenue Account of
the G. Sof I Ry for the
second half of 1871
Nos 2087 & 2088 - 3rd Sept 72

No. 15

Sent to Cole 13th Aug 72

the Revenue Accounts and Analysis of the Traffic Operations of the Great Southern of India Railway for the Half year ending 31st December 1871.

It will be observed from the Consulting Engineer's letter that owing to a number of references that had to be made to the Agent those papers could not be submitted earlier. I am also directed to solicit instructions on the several points noticed by

by Lieutt Colonel Shaw Stewart.—

Dept 9/9/72 Nos 36 & 37
Fl Nos 2087 of 1872.

C.e 3898

Govt. of [1872] Madras.

PUBLIC WORKS.

The Consulting Engineer
for Railways
To the Secretary to the

Date

Recd. Read.

G. O. 3 September No. 2087-88

Nos. 15-1617

Services, submitted by the [illegible]
Account Current for the 4 Q
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