

Public Works (1894) Department.

RAILWAY BRANCH.

G.O., No. 264 - 65 R &
6
264 R

DATED 30th April

[Despatch Abstract.]

South India Railway

The analysis of working of the — for the second half of 1893, ordered to be forwarded to the Director Genl of Railways & to the Secretary of State.

Forwarding the analysis of working of the — for the second half of 1893.

Forwarding copy of Procs. embodying the analysis of working of the S. I. Ry (including Pondicherry Ry.) for the second half of 1893.

[illegible]

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

End. C. A. Marisawmy.
Spare Copies

RAILWAY.

Govt. of {1894} Madras.

PUBLIC WORKS.

Dated April, 30th.

Recd.

Encl.

G.O., 30th Apr. 1894, Nos. 264,
265 R.

APRIL.

South Indian Railway

Forwarding the analysis of working of
the — for the second half of 1893.

30TH APRIL 1894, No. 264 R., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

SIR,

We have the honour to forward a copy of our Proceedings, No. 264 R., dated 30th April 1894, embodying the analysis of working, South Indian Railway (including Pondicherry Railway), for the second half of 1893.

We have the honour to be,

Sir,

Your most obedient, humble servants,

(Signed) WENLOCK.

(") CHAS. M. CLARKE, Lt.-Genl.

(") H. W. BLISS.

(") J. GROSE.

OOTACAMUND,
30th April 1894.

Encl. C. A. Muniswamy.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

LETTER to the Right Honorable
the Secretary of State for
India.

No. $\frac{6}{284 R}$, dated 30th Apr. 1894.

FORWARDING copy of Proceedings embodying
the analysis of working of the South Indian
Railway (including Pondicherry Railway) for the
second half of 1893.

SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING

FOR THE

Half-Year ended 31st December 1893.

TRICHINOPOLY:—BRANCH "ECLIPSE" PRESS.

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SOUTH INDIAN RAILWAY.
 (UNCLUDING PONDICHERRY RAILWAY.)
 ANALYSIS OF WORKING
 FOR THE HALF-YEAR ENDED 31st December 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. 1.			
DESCRIPTION OF RAILWAY WORKED.		Ft. In.	
1	Gauge of Railway ...	3 3	} Excluding Pondicherry Railway.
2	Mean mileage worked ... Miles.	1,049.31	
3	Number of stations ... No.	153	
4	Total length of the following gradients ... Miles.		
	(a) $\frac{1}{8}$ and less ...		
	(b) $\frac{1}{8}$ to $\frac{1}{4}$...		
	(c) $\frac{1}{4}$ to $\frac{1}{2}$...	116.35	
	(d) $\frac{1}{2}$ to $\frac{3}{4}$...	192.60	
	(e) $\frac{3}{4}$ to 1 ...	85.11	
5	Steepest gradient worked—		
	(a) Length ... Miles.	3.12	
	(b) Inclination ...	1 in 100	
No. II.			
FINANCIAL RESULTS.			
6	Percentage of net earnings (including steam boat traffic) on Capital outlay ... Per cent.	1.84	} Excluding Pondicherry Railway.
7	Percentage of net earnings on paid-up capital ...		
No. III.			
OUTLAY, EARNINGS AND EXPENSES.			
(Exclusive of Steam Boat Service.)			
8	Capital outlay per mile open ... Rs.	70,115.73	} Excluding Pondicherry Railway.
9	Total earnings per mile open per week ...	141.16	
10	Total working expenses per mile per week ...	89.48	
11	Total earnings per train-mile ...	2.46	
12	Total working expenses per train-mile ...	1.56	
13	Net earnings per train-mile ...	.90	
14	Cost per 1,000 gross ton-miles moved (freight and dead weight) ...	9.77	
15	Percentage of total working expenses upon total earnings ... Per cent.	63.30	
16	Percentage of total working expenses upon total earnings, excluding from both sides of the account the charges for carriage of Revenue Stores ...	62.73	
(Inclusive of Steam Boat Service.)			
17	Percentage of total working expenses on total earnings (for details see table No. VII.) ...	63.30	
No. IV.			
DIVISION OF EXPENDITURE BETWEEN COACHING AND GOODS TRAFFIC.			
18	Total working expenses for both coaching and goods traffic, excluding steam boat expenses, and after deducting telegraph and sundry receipts, and leaving only the balance of payments to other lines for mileage, &c. ... Rs.	23,61,308	
Proportions, dividing expenditure in ratio of gross ton mileage (freight and dead load)—			
19	Coaching ...	10,58,556	
20	Goods ...	13,03,352	

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SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERY RAILWAY.)
ANALYSIS OF WORKING—(continued.)
HALF-YEAR ENDED 31st December 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. V. COACHING TRAFFIC.			
GROSS RECEIPTS AND TRAIN-MILEAGE—			
21	Receipts from coaching Traffic ...	Rs.	19,75,704
22	Coaching Train miles run ...	No.	711,312
23	Average coaching receipts per train-mile ...	Rs.	2-78
UNITS AND UNIT MILEAGE—			
Number of units carried one mile.			
24	1st class ...	Unit Miles.	483,793
25	2nd " ...	"	3,619,716
26	3rd or Intermediate class ...	"	
27	4th or Lowest class ...	"	169,621,379
28	Total Passenger unit mileage ...	"	173,724,898
29	Other coaching traffic ...	Ton Miles.	396,364
Average sum received for carrying a unit one mile.			
30	1st class ...	Pies.	11-85
31	2nd " ...	"	3-92
32	3rd or Intermediate class ...	"	
33	4th or lowest class ...	"	2-00
34	Average for all classes ...	"	2-06
35	Other coaching traffic per ton mile ...	"	53-07
Average number of units in a train			
36	1st class ...	No.	68
37	2nd " ...	"	5-09
38	3rd or Intermediate class ...	"	
39	4th or Lowest class ...	"	238-46
40	Total passenger units ...	"	244-23
41	Other coaching traffic ...	Tons.	56
VEHICLES AND VEHICLE MILEAGE—			
Number of Coaching Vehicles hauled one mile.			
42	1st class ...	Vehicle Miles.	706,149
43	2nd " ...	"	1,358,518
44	3rd or Intermediate class ...	"	
45	4th or Lowest class ...	"	9,956,960
46	Other Vehicles ...	"	1,703,666
47	Brake-Vans ...	"	58,399
48	Total ...	"	13,785,692
Average number of Vehicles in a coaching train.			
49	1st Class ...	No.	90
50	2nd " ...	"	1-91
51	3rd or Intermediate class ...	"	
52	4th or Lowest class ...	"	14-00
53	Other Vehicles ...	"	2-40
54	Brake-vans ...	"	0-08
55	Total ...	"	19-38
Average earnings per coaching vehicle per mile.			
56	1st class ...	Pies.	8-12
57	2nd " ...	"	10-44
58	3rd or Intermediate class ...	"	
59	4th or Lowest class ...	"	33-99
60	Other vehicles ...	"	12-33
Carrying capacity hauled one mile (excluding brakes)			
61	1st class ...	Seats.	9,188,969
62	2nd " ...	"	17,300,861
63	3rd or Intermediate class ...	"	
64	4th or Lowest class ...	"	328,502,208
65	Other vehicles ...	Tons.	6,790,824
Percentage of freight upon capacity hauled			
66	1st class ...	Per cent.	5-26
67	2nd " ...	"	20-92
68	3rd or Intermediate class ...	"	
69	4th or Lowest class ...	"	51-63
70	Other vehicles ...	"	5-84

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SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERY RAILWAY.)
ANALYSIS OF WORKING—(continued.)
HALF-YEAR ENDED 31st December 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. V. COACHING TRAFFIC.—(Continued.)			
WEIGHT OF TRAIN AND TON-MILEAGE—			
Gross ton-mileage of all coaching trains.			
71	Freight ...	Ton Miles.	10,911,603
72	Dead-weight ...	"	97,393,606
73	Total ...	"	108,305,209
Average weight of a coaching train.			
74	Freight ...	Tons.	15-34
75	Dead-weight ...	"	136-92
76	Total ...	"	152-26
COST OF WORKING AND PROFITS—			
Average cost of hauling a coaching train one mile			
77	one mile ...	Rs.	1-49
Average cost of hauling a coaching vehicle with its load one mile			
78	one mile ...	Pies.	14-80
Average cost of hauling a coaching unit one mile.			
79	Per passenger unit ...	"	1-03
80	Other traffic per ton ...	"	60-99
Average profit on working a coaching train one mile			
81	one mile ...	Rs.	1-29
Average profit on working a coaching vehicle one mile.			
82	1st class ...	Pies.	6-68
83	2nd " ...	"	4-36
84	3rd or Intermediate class ...	"	
85	4th or Lowest class ...	"	19-19
86	Other vehicles ...	"	2-47
Average profit on working a coaching unit one mile.			
87	Per passenger unit ...	Pies.	1-03
88	Other traffic per ton ...	"	7-92

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SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERY RAILWAY.)
ANALYSIS OF WORKING.—(continued.)
HALF-YEAR ENDED 31st December, 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. VI. GOODS TRAFFIC.			
GROSS RECEIPTS AND TRAIN-MILEAGE—			
89	Receipts from Goods Traffic		
90	Goods Train-miles run	Rs.	17,77,048
91	Average goods receipts per train-mile	No. Rs.	850,993 2-09
UNITS AND UNIT MILEAGE—			
92	Tons of Goods carried one mile	... Ton Miles.	44,111,655
93	Average sum received for carrying a ton one mile		
94	Average number of tons in a train	Pies. Tons.	7-73 51-84
VEHICLES AND VEHICLE MILEAGE—			
Number of Goods vehicles hauled one mile.			
95	Loaded	... Vehicle Miles.	10,604,359
96	Empty		
97	Brake-vans	"	4,281,710
98	Total	"	513,743
99	Average number of vehicles in a goods train	"	15,399,812
100	Freight vehicles	No.	17-43
101	Brake-vans	"	60
102	Total	"	18-09
103	Average earnings per goods vehicle per mile (excluding brakes)	Pies.	22-92
104	Carrying capacity hauled one mile (excluding brakes)	Tons.	89,309,358
105	Percentage of freight upon capacity hauled	Per cent.	49-39
106	Average load of a goods vehicle (including both loaded and empty)	Tons.	2-96
	Average load of a loaded goods vehicle	"	4-16
WEIGHT OF TRAIN AND TON MILEAGE—			
Gross ton mileage of all goods trains.			
107	Freight	Ton Miles.	44,111,655
108	Dead-weight	"	89,239,604
109	Total	"	133,351,259
110	Average weight of a goods train	"	
111	Freight	Tons.	51-84
112	Dead-weight	"	104-86
	Total	"	156-70
COST OF WORKING AND PROFITS			
113	Average cost of hauling a goods train one mile	Rs.	1-53
114	Average cost of hauling a goods vehicle with its load one mile	Pies.	16-82
115	Average cost of hauling a goods unit (viz. one ton) one mile	"	5-67
115A	Average cost of hauling a goods unit (viz. one ton) one mile including interest on Capital expended at the rate of 5 per cent per annum	"	
116	Average profit on working a goods train one mile	"	10-26
117	Average profit on working a goods vehicle with its load one mile	Rs.	56
118	Average profit on working a goods unit (viz. one ton) one mile	Pies.	6-10
		"	2-06

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SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERY RAILWAY.)
ANALYSIS OF WORKING.—(continued.)
HALF-YEAR ENDED 31st December 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. VII. DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.			
Percentage to Total Earnings—			
119	Coaching Traffic	... Per cent.	51-30
120	Goods Traffic	" "	46-14
121	Sundries, including Telegraph	" "	2-56
122	Steam-boat Earnings	" "	
	Total Earnings	" "	100-00
Percentage of Working Expenses upon Total Earnings—			
123	Maintenance	... Per cent.	16-32
124	Locomotive Expenses	" "	22-05
125	Carriage and Wagon Expenses	" "	7-75
126	Traffic Expenses	" "	8-71
127	General Charges	" "	7-65
128	Miscellaneous Charges	" "	91
129	Steam-boat Expenses	" "	
130	Total Working Expenses	" "	63-39

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 31st December 1893.

No. VIII.—Working Expenses.

TABLE A.
Maintenance of Way, Works and Stations.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	b.	c.	d.
Table and main-head.	Sub-head.			Per mile of line maintained. 1,049.31	Per mile of track including Sidings. 1,169.27	Per total Train-mile. 1,562,305	Per 1,000 gross ton miles. 241,656,468
IX(A)	1 & 2	131	General Superintendence— Engineers' Salaries and allowances	Rs. 51.61	Rs. 46.32	As. 56	Rs. 23
	3 to 5		Subordinate Superintendents' salaries and allowances, including overtime	33.87	30.40	36	15
	6		Office expenses	31.93	28.65	34	13
			Total...	117.41	105.37	126	51
2	1 & 2	132	Maintenance and Renewal of Permanent Way— Wages	114.80	103.02	123	50
	3		Materials	280.06	251.33	301	121
			Total...	394.86	354.35	424	171
3	1 & 2	133	Repairs of Bridges, &c.— Wages and Materials— Bridges and tunnels	17.26	15.49	19	8
	3		Miscellaneous	28.72	25.77	31	12
			Total...	45.98	41.26	50	20
3(A)	1 & 2	134	Conservancy of Rivers— Repairs of Stations and Buildings— Wages and Materials— Repairs of all, except staff quarters	25.45	22.84	27	11
	3		Repairs of staff quarters	5.49	4.93	6	2
			Total...	30.94	27.77	33	13
5	1 & 2	135	Maintenance by Contract— Amount paid to Contractors Materials supplied by the Railway				
			Total...				
6	1 & 2		New Minor Works—	4.15	3.72	5	2
7	1 & 2		Unclassified Expenditure— Plantations	1.88	1.68	2	1
	3		Tools and Plant	11.20	10.06	12	5
	4		Loss by exchange	1.19	1.17	1	0
	5		Loss on stores, &c.	31.22	28.02	34	13
			Freight on Stores				
			Total...	44.49	39.93	48	19
			Total Heads, 5, 6 and 7 Less Credits	48.64	43.65	53	21
136			Net Total, Other Charges	38.84	34.86	42	16
137			Total Maintenance	9.80	8.79	11	5
				508.99	537.54	644	260

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 31st December 1893.

No. VIII.—Working Expenses.—(contd.)

TABLE B.
Locomotive Expenses.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	b.	c.
Table and main-head.	Sub-head.			Per total Train-mile. 1,562,305	Per Engine mile. 1,637,577	Per 1,000 gross ton-miles. 241,656,468
IX(B)	1 & 2	138	General Superintendence— Salaries of Superintendents and Assistants, including allowances	As. 16	As. 13	Rs. 06
	3 to 5		Ditto of Subordinate ditto including ditto	28	24	12
	6		Office expenses	24	20	09
			Total...	68	57	27
2	1 & 2	139	Running Expenses— Wages of Drivers and firemen, including overtime	1.39	1.19	57
	3		Fuelling, cleaning and looking after engines	22	18	09
	4		Contingent expenses	01	01	03
			Total...	1.62	1.39	66
3	1 to 4		Fuel.—(In terms of coal) Average quantity consumed	lbs. 36.30	lbs. 30.86	lbs. 231.69
			Average price per ton Rs. 14.39 Do. cost	As. 3.73	As. 3.17	Rs. 1.50
4		140	Water—Including wages and Stores	16	14	07
5		141	Oil, tallow and other Stores	34	29	14
6	1 & 2	142	Maintenance and Renewals— Wages including overtime	1.08	09	44
	3		Materials	79	68	32
			Total...	1.87	1.59	76
6 A.		143	Machinery	03	02	01
7			New Minor works			
8			Payments to other lines			
9	1 & 2		Unclassified Expenditure— Loss by exchange	001	001	001
	3		Loss on Stores, &c.	31	26	12
			Freight on Stores			
			Total...	31	26	12
			Total Heads 7, 8 and 9...	31	26	12
			Less Credits	04	03	02
144			Net Total, other Charges	27	23	10
145			Total, Locomotive Expenses	8.70	7.39	3.51

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 31st December 1893.

No. VIII.—Working Expenses.—(contd.)

TABLE C.

Carriage and Wagon Expenses.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	b.
Table and main-head.	Sub-head.			Per total Train-mile.	Per 1,000 Vehicle-miles run by horse Vehicles.
				1,562,305	29,081,621
IX (C) 1	1 & 2	140	<i>General Superintendence—</i>	As.	Rs.
	3 to 5		Salaries of Superintendents, including allowances	·04	·13
	6		Ditto of Subordinate ditto, including ditto	·07	·21
			Office expenses	·06	·20
			Total...	·17	·57
		147	<i>Repairs and Renewals of Vehicles and Machinery—</i>		
	1 to 3		Coaching Vehicles... { Wages including overtime ...	·33	2·32
			Materials ...	·71	4·02
			Total...	1·04	7·24
	1 to 3	148	Goods Vehicles ... { Wages including overtime...	·25	1·61
			Materials ...	1·33	8·50
			Total...	1·58	10·20
				·03	·09
2A		149	<i>Cleaning and Oiling—</i>		
	1		Labour, including wages of Oilers, &c....	·19	·63
	2		Stores	·04	·15
			Total...	·23	·78
		150	<i>New Minor Works—</i>	·003	·01
			<i>Unclassified Expenditure—</i>		
	1		Loss by exchange	·01	·04
	2		Loss on Stores, &c.	·01	·04
	3		Freight on Stores	·01	·05
			Total Head, 4 and 5...	·01	·04
5			<i>Less Credits</i>	·01	·05
			150 Net Total, Other Charges	·001	·004
			151 Total, Carriage and Wagon Expenses	·01	·05
				3·06	10·20

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 31st December 1893.

No. VIII.—Working Expenses.—(contd.)

TABLE D.

Traffic Expenses.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	b.
Table and main-head.	Sub-head.			Per total Train-Mile.	Per cent of Traffic earnings. Abstracts II. and I.
				1,562,305	37,52,752
IX (D) 1			<i>General Superintendence—</i>	As.	Percent.
	(a) 1 & 3		Traffic Manager, Assistants, &c., including travelling allowances.	·34	·80
	(a) 2 & 4		Office Establishment and contingencies	·14	·37
		152	Total	·48	1·26
	(b) 153		Station Staff	1·50	4·14
	(c) 154		Train Staff	·32	·84
	2 1 to 3	155	Fuel, Lighting, Water and General Stores	·55	1·42
	3	156	Clothing	·03	·09
	4	157	Printing Stationery and Tickets	·35	·90
	5	158	Charges for delivery and collection of goods, &c.	·002	·01
6		159	Miscellaneous Expenses	·03	·07
			<i>Payments to other Lines—</i>		
	7 1	160	Expenses at joint Stations	·06	·16
			<i>Unclassified Expenditure—</i>		
	1		Loss by Exchange	·002	·01
	2		Loss on Stores, &c.	·03	·07
	3		Freight on Stores	·03	·07
			Total Head, 8	·03	·08
			<i>Less Credits</i>	·01	·04
			161 Net Total, Other Charges	·02	·01
8			162 Total Traffic Expenses	3·43	8·93

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING—(contd.) HALF-YEAR ENDED 31st December 1893.

No. VIII.—Working Expenses—(contd.)

TABLE E.

General Charges.

Reference to Revenue Account.		Progressive Number in Analysis.	DETAILS.	(a)	(b)
Table and main-head.	Sub-head.			Per total Train-Mile.	Per cent on total earnings.
				1,562,305	39.51.266
				As.	Percent.
1X (E) 1	1 to 4	163	Home Expenditure	43	1.24
1 a			Government Supervision Audit and Control	43	1.08
	1	164	Indian Management—		
			Agent's Office, including travelling allowances and contingencies	22	.55
	2		Auditor's office ditto ditto	63	1.59
	3		Accounts office ditto ditto		
	4		Paymaster's office ditto ditto		
2		165	Total 2 to 4	63	1.59
	5	166	Store Department, ditto ditto	14	.35
	6	167	Medical Department, ditto ditto	12	.32
	7		Rents	0002	.001
	8 to 10		Miscellaneous expenses, including printing stationery and medicine	17	.42
		168	Total 7 to 10	17	.42
3	1 to 3	169	Police	18	.47
4		170	Advertising	01	.03
			Electric Telegraph—		
	1 to 4		Salaries, &c.	25	.64
	5		Maintenance (Wages and Stores)	02	.04
	6		Government Telegraph Department, for rent, maintenance and inspection	35	.90
		171	Total	62	1.58
6			Clearing Accounts, with other lines—		
			Unclassified Expenditure—		
	1		Loss by exchange	001	.003
	2		Loss on Stores, &c.	01	.02
	3		Freight on Stores	01	.02
			Total	01	.02
			Total Heads, 6 and 7	01	.02
			• Less Credits	0004	.001
		172	Net Total, Other Charges	01	.02
		173	Total General Charges	3 02	7.65

Earnings of the South Indian Railway Company
Less amount received for working Pondicherry Railway Company's Line

Earnings of the Pondicherry Railway Company

Rs. 38,44,530 14 6
" 11,110 13 7
38,33,420 0 10
" 17,843 14 2
Rs. 38,51,263 13 0

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING—(continued.)—HALF-YEAR ENDED 31st December 1893.

No. VIII.—Working Expenses—(contd.)

TABLE F.

Steam Boat Service.

Reference to Revenue Account.		Progressive Number in Analysis.	DETAILS.	Per cent on Steam boat earnings.
Table and main-head.	Sub-head.			
1X (F)	...		Working Expenses—	
	1		Salaries and allowances of Officers and crews	
	2		Loading and unloading vessels	
	3		Provision fees	
	4		Contingencies	
			Repairs—	
	1		Wages	
	2		Materials	
	1 to 3	173 a	Fuel	
	1 & 2		Miscellaneous Stores	
			Steam Traffic Agency	
			New Minor Works	
	1 to 6		Miscellaneous Expenditure	
			Total	
			Less Credits	
			Total Steam Boat Expenses	

TABLE G.

Special and Miscellaneous Expenditure.

Reference to Revenue Account.		Progressive Number in Analysis.	DETAILS.	Per cent on total earnings.
Table and main-head.	Sub-head.			
1X (G) 1	...	174	Loss Charges—	
			Compensation—	
	1		For goods lost or damaged	.08
	2		" Personal injury	.001
	3		" Other claims	.04
			Total	.32
		175	Rates and Taxes	
		176	Payments to other Lines—	
			Hire of Locomotives	.04
			" of Vehicles	.12
			Mileage of foreign stock	
			Rent of stations, &c., jointly occupied	.16
			Total	.39
		177	Contribution to Provident Fund	.05
			Miscellaneous	.35
			Total Heads 5 to 8	
			Less Credits	.35
		178	Net Total Other Charges	.91
		179	Total Special and Miscellaneous Expenses	

WILLIAM S. BETTS,
Agent

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

APPENDICES TO ANALYSIS OF WORKING.

HALF-YEAR ENDED 31st December 1893.

APPENDIX I.

Working of Locomotives.

Reference to Revenue Account.	Table & main head.	Sub-head.	Passenger.	Passenger.	Goods.	Total.	Total.
		1—Wheels coupled	...	4 coupled Ta. Ca. Qs.	6 coupled Ta. Ca. Qs.	4 Coupled Ta. Ca. Qs.	6 Coupled Ta. Ca. Qs.
		2—Weight on driving axle	{ S. I. R. Nellore. V. G.	7 0 0 0 0 0 6 15 0	6 0 0 6 15 0 7 16 0	6 8 0 ...	9 0 3 ...
		3—Weight of Engine in steam	{ S. I. R. Nellore. V. G.	20 0 0 0 0 0 21 8 0	18 0 0 19 18 0 24 6 0	20 0 0 ...	27 17 1 ...
		4—Weight of Tender Loaded	{ S. I. R. Nellore. V. G.	14 0 0 ...	12 0 0 12 18 0 13 14 0	...	...
XII	6	1—Number of Locomotives erected and made over to Locomotive Department	...	65	131	8	204
	11	2—Average number of Locomotives constantly under repairs and renewals	...	6538	23500	772	30810
		3—Number of Locomotives laid by as spare	...	...	...	...	...
		4—Ditto lent or hired out to other lines	...	...	2	...	2
		5—Average number of Locomotives 1—(3+4)	...	65	129	8	202
		6—Total Mileage of Locomotives (5)	...	667,125	1,110,791	69,661	1,837,577
		7—Average miles run by a Locomotive of each class 6 ÷ 5	...	10,263	8,611	7,453	9,097
		Per diem.	...	65.78	46.80	40.53	49.44
		8—Weight of coal &c., used per engine mile	...	114.	114.	114.	114.
		9—Weight of wood used per engine mile	...	19.94	39.07	18.13	30.96
			Passenger Trains.	Goods Trains.	Mixed Trains.		
		10—Average gross weight of trains hauled	110.48	108.40	144.76		120.93
		11—Average speed between stations	20	13	16		
		12—Average through speed	16	9	12		
		13—Average consumption of coal per engine mile.	27.35	28.08	27.91		

The rates at which the several descriptions of fuel used have been converted to one standard.

Khurbarree	...	1	Bornkur	...	...
Australian	...	727	Kingareeni	...	...
English	...	730	Wood	...	...

Three old engines which have been condemned and replaced by new ones at the cost of Revenue are still temporarily employed on the M. M. Railway and are not included in the above statement.

APPENDIX II.

SOUTH INDIAN (INCLUDING) APPENDICES TO ANALYSIS APPEN Working of

DESCRIPTION OF VEHICLES.										Working on		
		Total number on the list at end of the half-year.	AVERAGE WEIGHT IN TONS.		AVERAGE CARRYING CAPACITY.		Average number lent by as spare.	Average number lent or hired out.	Average number working a—(t + f)			
			Of each description of Vehicle.	Of each group.	Of each description of Vehicle.	Of each group.						
COACHING STOCK—												
EIGHT SIX-WHEELED.	Governor's Saloon Carriage	1	10 00	10 24	22	...	...	...	1			
	Inspection Carriage	1	10 00		22							
	First Class Clemenson's	1	10 00		22							
	Third Class do	37	10 26	10 30	64	...	...	...	1			
	Composite Carriage	2	11 61		23							
Third Class do.	9	10 74	64									
First Class do.	19	8 32	12									
Composite do.	43	6 39	14 91									
Second Class do.	44	6 81	12									
Intermediate do.	637	4 91			31 41	...	...	...	537			
Third Class do.												
Horse Boxes												
Carriage Trucks	30	4 81	5 08	1 17	...	...	...	30				
Luggage vans with brake	5	2 37		3 00								
Post Office Vans	61	5 57		4 06								
Post Office Vans with luggage compartment and brake	12	6 22		4 50								
	6	6 64		...					...	...	...	6
GOODS STOCK—												
FOUR-WHEELED.	Covered Goods Wagons	1,513	4 04	5 40	6 00	...	...	...	624			
	Cattle Trucks	6	4 21		2 00							
	Open Wagons	504	3 23		6 00							
	High sided Wagons	813	3 72	3 85	6 00	5 95	...	...	813			
	Cotton Trucks	63	4 80		4 60							
	Timber Trucks	33	3 15		5 12							
	Miscellaneous	3	19 00	4 76	Nil.	4 40	...	...	3			
	Powder Vans	5	4 76		4 40							
	Platform Wagons	4	2 76		6 00							
	Water Tanks travelling	17	3 65	3 65	Nil.	...	...	...	17			
	Tank Wagon for Carriage of Petroleum	3	7 97		7 72							
	Cotton Trucks Clemenson's	14	7 86		7 63	10 00	9 62	...	...	14		
Ten Ton Boiler Truck	1	3 40	10 00									
Iron low sided Bogie Wagons	20	6 15	6 89	14 00	12 00	...	...	20				
Timber Trucks Bogie	19	7 72		12 00								
Brake Vans	62	6 77	6 77	...	...	...	...	62				
Total		3 369	3 95	3 95	6 05	6 05	...	...	3 369			
GRAND TOTAL		4,197	...	...	...	...	...	...	4,197			

RAILWAY. PONDICHERRY RAILWAY, OF WORKING.—(contd.) HALF-YEAR ENDED 31st December 1893. DIX II. Vehicles.

MILEAGE OF						Ton mileage of Vehicle dead weight hauled on Home Line.
FOREIGN-VEHICLES ON HOME LINE.		HOME VEHICLES ON HOME LINE.		Home Vehicles on Foreign Lines.	Carrying Capa- city hauled on Home Line.	
Loaded.	Empty.	Loaded.	Empty.			
i.	A.	L.	M.	N.	O.	P.
		1,421	...	...	31,262	14,210
		11,336	...	...	247,192	112,360
		6,247	...	...	137,434	62,470
		456,449	...	...	29,212,736	4,633,167
		8,194	...	...	204,850	95,132
		26,852	...	...	1,718,828	288,391
		487,017	...	...	6,844,204	2,590,930
		654,304	...	...	8,261,673	2,987,699
		1,030,998	...	...	12,371,976	6,021,023
		9,448,410	...	...	296,774,538	46,391,693
282	293	1,837,473	25,565	...	7,513,313	10,530,603
		48,996	...	...	...	276,337
282	293	13,937,597	25,565	9,666	...	74,054,020
142,113	136,945	* 10,425,949	4,086,191	...	88,046,696	66,909,835
						1,989
		49,898	27,368	...	743,299	589,539
		28,280	31,206	...	776,292	409,858
		316,191	34,532	...	...	2,374,415
142,113	136,945	10,820,321	4,179,297	109,275	...	60,285,636
142,395	137,228	24,767,918	4,204,862	118,841	...	134,339,656

* Includes 674 miles run by Travelling Crane.

545 miles run by Travelling water tanks are not included in the mileage columns I to o.

Average mileage per diem run by ... Coaching 75,890
Goods 83,036

SOUTH INDIAN RAILWAY. UNCLUDING PONDICHERRY RAILWAY. APPENDICES TO ANALYSIS OF WORKING.—(contd.)

HALF-YEAR ENDED 31st December 1893.

APPENDIX III.

Distribution of Mileage according to the traffic carried, giving total mileage of Home and Foreign Stock on Home line.

DESCRIPTION OF VEHICLES.	MILEAGE OF			REMARKS.
	Vehicles.	Carrying Capacity.	Dead weight.	
Coaching—				
First class	706,149	9,188,969	3,803,736	
Second class	1,358,518	17,300,861	7,813,852	
Third or Intermediate class				
Fourth or Lowest class	9,956,960	823,502,208	81,460,326	
Total Passenger vehicles	12,021,627	934,992,038	63,079,816	
Other coaching vehicles	1,708,668	6,790,834	9,639,357	
Total paying coaching mileage	13,727,293		72,619,171	
Passenger brake-vans	58,399		840,187	
Total coaching mileage including brakes	13,785,692		72,959,358	
Goods—				
Loaded Vehicles	10,604,359	63,492,009	41,085,392	
Empty do.	4,281,710	25,817,349	16,665,097	
Total paying goods mileage	14,886,069	89,309,358	57,750,479	
Goods brake-vans	613,743		8,270,872	
Total goods mileage, including brakes	15,399,812	89,809,358	61,021,051	
Miscellaneous—				
Free Mileage for inspection, &c... ..	56,899		359,247	
GRAND TOTAL	29,243,403		134,339,656	

SOUTH INDIAN RAILWAY. APPENDICES TO ANALYSIS OF WORKING.—(continued.)

HALF-YEAR ENDED 31st December 1893.

APPENDIX IV.

Maintenance of Way.

RAILS.

DETAILS.	IRON.				STEEL.				Total Iron and Steel.
	Double headed-weighting 66 lbs. per yard.	Flat footed-weighting 40-3 lbs. per yard.	Flat footed-weighting 35-5 lbs. per yard.	Total.	Rice, weighting 41 lbs. per yard.	Steel, weighting 60 lbs. per yard.	Steel, weighting 66 lbs. per yard.	Total.	
1 Miles of rail in way, including sidings	29942	36164	260	65266	81026	82482	166	166864	2,319,30
2 Rails removed	90	3615	007	3705	2253	03	..	2256	5961
3 New Rails laid	264	2617	..	2881	339	2989	..	3328	6209

Total mileage of Iron and steel Rails laid ... 6209
 do, removed ... 5961
 Increase ... 248

Increase is due to extension of sidings.

SOUTH INDIAN RAIL WAY. **APPENDICES TO ANALYSIS OF WORKING.—(concluded.)**

HALF-YEAR ENDED 31st December 1893.

APPENDIX V.

Maintenance of Way. **SLEEPERS.**

DETAILS.	WOOD.						IRON.				STEEL TRANSVERSE SLEEPERS.	
	TRANSVERSE.			LONGITUDINAL.								
	Crossed Pine 9" x 10" x 5"	Crossed Round 6" x 10" x 5"	Tab of sizes.	Transverse 6" x 9" x 4 1/2"	No.	Liab. ft.	Pot sleepers weighing 80 lbs.	Pot sleepers weighing 70 lbs.	Pot sleepers weighing 67 lbs.	Total	D. and O. Cast iron sleepers.	No.
1 Number of Sleepers in way, including sidings at the commencement of the half-year.	47,422	284,069	48,773	63,834	414,100	112,394	217,025	775,467	10,692	1,003,184	92,135	767,574
2 Average age of Sleepers in way at the end of the half-year... Years...	31.35	14.09	13.15	9.74	13.02	8.28	24.14	4.85	9.01	9.30	6.14	8.64
3 Number removed	47,154	32,018	187	10,282	89,641	9,271	141	16	12	169	161	10,457
4 Number laid	...	18,066	20,207	30,028	69,201	480	56	91,899	12	34,947	161	151
5 Percentage of removals on total of each class (1)	99.43	11.27	.38	16.10	20.18	8.25	.00	.002	.11	.01	.17	1.38
6 Number of Sleepers in way, including sidings at the end of the half-year	269	270,117	68,793	81,430	425,640	103,603	216,920	810,350	10,692	1,037,962	92,135	747,268

Total number of Wooden, Iron and Steel sleepers laid ... 104,460
Total number removed ... 100,423

Increase ... 4,032

Increase is due to extension of sidings.

Sd/-
14/4/94
S

No. 421

South Indian Railway Co., Ltd.,

AGENTS OFFICE,

TRICHINOPOLY, 13th April 1894

From

The Agent,

SOUTH INDIAN RAILWAY.

To

The CONSULTING ENGINEER FOR RAILWAYS,
MADRAS.

Sir,

In continuation of my letter
No. 409 of the 11th instant I have
the honor to forward, by railway
parcel, thirty printed copies of
the Analysis of Working of this
Railway for half year ended 31st
December, 1893.

I have the honor to be,

Sir,

Your most obedient Servant
William B. B. B.
Agent

30 Encls. by train

W.B.B.

508

Recd
14/4/94

1709

A

No 264 R 25 April 1894

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Agent
S. J. R. submitting the
analysis of working S. J. R.
for the 2nd half of 1893 —

H. S. N = 421 7 18th April 1894

Ordered to be forward
ed to the Director General
of Railways and to the
Secretary of State.

To The Agent S. J. R. this E.R.
Examiner R. C. C. C. C.

H. S. N = 265 R 25 April 1894

Forwarded

H. S. N = 264 R 25 April 1894

To The Right Honble the Secretary
for India

Sir, We have the honor to
forward a copy of our
Prop N = 264 R 25 April 1894,
embodying the analysis of
working S. J. R. (including
Pondicherry R.) for the 2nd half of 1893.

Row
4/5/94

From
The Agent,
South Indian Railway,
Trichinopoly,
To
The Consulting Engineer for
Railways,
Madras.
Dated
Received
No.
189
Enclosure