

Public Works (1893) Department.

RAILWAY BRANCH.

G.O., No. 1303-4 ⁸²

¹⁶/₁₃₀₃

DATED 26th October

[Despatch Abstract.]

Analysis of Working of the S. I. Railway.

The — (including Pondicherry Railway) for the first half of 1893, ordered to be forwarded to the Director General of Railways and to the Secretary of State.

Fdg copy of Pros: embodying the — (including Pondicherry Ry) for the first half of 1893.

Fdg copy of Pros: embodying the — (including Pondicherry Ry) for the first half of 1893.

BACK PAPERS.

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

FURTHER PAPERS.

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

26TH OCTOBER 1893, No. 1303 R., PUBLIC WORKS.

GOVERNMENT OF MADRAS. PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper:—

Endorsement from the Consulting Engineer for Railways, dated 12th October 1893, No. 287.
ABSTRACT—Forwarding copies of the analysis of working of the South Indian Railway for the first half of 1893.

ORDER—dated 26th October 1893, No. 1303 R., Public Works.

Ordered to be forwarded to the Director-General of Railways in continuation of Public Works Department letter No. 1069 D., dated 18th October 1893, and to the Secretary of State.

[Here enter No. 1304 R., dated 26th October 1893.]

(True Extract.)

(Signed) F. R. UPCOTT,
Joint Secy. to Govt., P.W.D.,
Railway Branch.

To the Agent, South Indian Railway,
through the Consulting Engineer for Railways.
" Examiner, Guaranteed Railway Accounts.

ENDORSEMENT—dated 26th October 1893, No. 1304 R., Public Works.

Forwarded.

(By Order.)

(Signed) F. R. UPCOTT,
Joint Secy. to Govt., P.W.D.,
Railway Branch.

Ed. C. A. Manisewmy.
Spare Copies

RAILWAY.

Govt. of {1893} Madras.
PUBLIC WORKS.

Dated October, 26th.

Recd.

Encl.

G.O., 26th Oct. 1893, Nos. 1303,
1304 R.

OCTOBER.

**Analysis of Working of the
South Indian Railway**

Forwarding copy of Proceedings embody-
ing the — (including Pondicherry Railway)
for the first half of 1893.

26TH OCTOBER 1893, No. $\frac{14}{1303}$ R., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

MY LORD,

We have the honour to forward a copy of our Proceedings, No. 1303 R., dated 26th October 1893, embodying the analysis of working of the South Indian Railway (including Pondicherry Railway) for the first half of 1893.

We have the honour to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) H. E. STOKES.

(„) J. H. GARSTIN.

OOTACAMUND,
26th October 1893.

Krd. C. A. Munimawmy.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. ¹⁴/_{1903 R.} dated 26th Oct. 1893.

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

Read with P.W.D. 1157, 2, 11.10.93 in case
Cable & Receipts SIR 1/93

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING

FOR THE

Half-Year ended 30th June 1893.

No 287.

Transferred to Joint
Secretary

CH. V. V.
J. E. R.

12-10-93

TRICHINOPOLY:—BRANCH "ECLIPSE" PRESS.

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SOUTH INDIAN RAILWAY:
 (INCLUDING PONDICHERRY RAILWAY.)
 ANALYSIS OF WORKING
 FOR THE HALF-YEAR ENDED 30th June 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. I.			
DESCRIPTION OF RAILWAY WORKED.		Ft. In.	
1	Gauge of Railway	3 38	Excluding Pondicherry Railway.
2	Mean mileage worked	1,050-01	
3	Number of stations	153	
4	Total length of the following gradients		
	(a) $\frac{1}{4}$ and less	Miles.	
	(b) $\frac{1}{4}$ to $\frac{1}{2}$	"	
	(c) $\frac{1}{2}$ to $\frac{3}{4}$	"	
	(d) $\frac{3}{4}$ to $\frac{7}{8}$	"	
	(e) $\frac{7}{8}$ to $\frac{9}{10}$	"	
	(f) $\frac{9}{10}$ to $\frac{10}{10}$	"	
5	Steepest gradient worked—		
	(a) Length	3-12	Excluding Pondicherry Railway.
	(b) Inclination	1 in 100	
No. II.			
FINANCIAL RESULTS.			
6	Percentage of net earnings (including steam boat traffic) on Capital outlay	Per cent.	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.	Excluding Pondicherry Railway.
9	Total earnings per mile open per week	"	
10	Total working expenses per mile per week	"	
11	Total earnings per train-mile	"	
12	Total working expenses per train-mile	"	
13	Net earnings per train-mile	"	
14	Cost per 1,000 gross ton-miles moved (freight and dead weight)	"	
15	Percentage of total working expenses upon total earnings	Per cent.	
16	Percentage of total working expenses upon total earnings, excluding from both sides of the account the charges for carriage of Revenue Stores	"	
(Inclusive of Steam Boat Service.)			
17	Percentage of total working expenses on total earnings (for details see table No. VII.)	"	
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.	24,66,239
Proportions, dividing expenditure in ratio of gross ton mileage (freight and dead load)—			
19	Coaching	"	10,51,840
20	Goods	"	14,14,399

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING—(continued.)

HALF-YEAR ENDED 30th June 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. V.			
COACHING TRAFFIC.			
GROSS RECEIPTS AND TRAIN-MILEAGE—			
21	Receipts from coaching Traffic ...	Rs. 21,88,004	
22	Coaching Train miles run ...	No. 711,225	
23	Average coaching receipts per train-mile ...	Rs. 3-08	
UNITS AND UNIT MILEAGE—			
Number of units carried one mile.			
24	1st class ...	Unit Miles. 603,745	
25	2nd " ...	" 4,166,325	
26	3rd or Intermediate class ...	" 187,436,119	
27	4th or Lowest class ...	" 192,208,189	
28	Total Passenger unit mileage ...	Ton Miles. 421,654	
29	Other coaching traffic ...		
Average sum received for carrying a unit one mile			
30	1st class ...	Pies. 11-61	
31	2nd " ...	" 3-80	
32	3rd or Intermediate class ...	" 2-00	
33	4th or lowest class ...	" 2-07	
34	Average for all classes ...	" 53-17	
35	Other coaching traffic per ton mile ...	"	
Average number of units in a train			
36	1st class ...	No. 85	
37	2nd " ...	" 5-86	
38	3rd or Intermediate class ...	" 268-54	
39	4th or Lowest class ...	" 270-25	
40	Total passenger units ...	Tons. 59	
41	Other coaching traffic ...		
VEHICLES AND VEHICLE MILEAGE—			
Number of Coaching Vehicles hauled one mile.			
42	1st class ...	Vehicle Miles. 721,900	
43	2nd " ...	" 1,440,468	
44	3rd or Intermediate class ...	" 9,875,090	
45	4th or Lowest class ...	" 1,663,931	
46	Other Vehicles ...	" 111,876	
47	Brake-Vans ...	" 13,813,265	
48	Total ...		
Average number of Vehicles in a coaching train.			
49	1st Class ...	No. 1-01	
50	2nd " ...	" 2-03	
51	3rd or Intermediate class ...	" 13-88	
52	4th or Lowest class ...	" 2-34	
53	Other Vehicles ...	" 16	
54	Brake-vans ...	" 19-42	
55	Total ...		
Average earnings per coaching vehicle per mile.			
56	1st class ...	Pies. 9-71	
57	2nd " ...	" 11-00	
58	3rd or Intermediate class ...	" 37-96	
59	4th or Lowest class ...	" 13-47	
60	Other vehicles ...		
Carrying capacity hauled one mile (excluding brakes)			
61	1st class ...	Seats. 9,440,461	
62	2nd " ...	" 29,070,730	
63	3rd or Intermediate class ...	" 326,797,453	
64	4th or Lowest class ...	Tons. 4,985,007	
65	Other vehicles ...		
Percentage of freight upon capacity hauled			
66	1st class ...	Per cent. 6-40	
67	2nd " ...	" 14-33	
68	3rd or Intermediate class ...	" 57-36	
69	4th or Lowest class ...	" 8-46	
70	Other vehicles ...		

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING.—(continued.)

HALF-YEAR ENDED 30th June 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. 12,061,402	
72	Dead-weight ...	" 98,688,690	
73	Total ...	" 110,750,092	
Average weight of a coaching train.			
74	Freight ...	Tons. 16-96	
75	Dead-weight ...	" 138-76	
76	Total ...	" 155-72	
COST OF WORKING AND PROFITS—			
Average cost of hauling a coaching train one mile			
77	one mile ...	Rs. 1-48	
Average cost of hauling a coaching vehicle with its load one mile			
78	one mile ...	Pies. 14-74	
Average cost of hauling a coaching unit one mile.			
79	Per passenger unit ...	" 93	
80	Other traffic per ton ...	" 54-77	
Average profit on working a coaching train one mile			
81	one mile ...	Rs. 1-60	
Average profit on working a coaching vehicle one mile.			
82	1st class ...	Pies. 5-03	Loss.
83	2nd " ...	" 3-74	do.
84	3rd or Intermediate class ...	"	
85	4th or Lowest class ...	" 23-22	
86	Other vehicles ...	" 1-27	Loss.
Average profit on working a coaching unit one mile.			
87	Per passenger unit ...	Pies. 1-14	
88	Other traffic per ton ...	" 1-60	Loss.

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SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERY RAILWAY.)
ANALYSIS OF WORKING.—(continued.)
HALF-YEAR ENDED 30th June, 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. VI.			
GOODSTRAFFIC.			
GROSS RECEIPTS AND TRAIN-MILEAGE—			
89	Receipts from Goods Traffic	Rs.	19,99,600
90	Goods Train-miles run	No.	926,446
91	Average goods receipts per train-mile	Rs.	2-16
UNITS AND UNIT MILEAGE—			
92	Tons of Goods carried one mile	... Ton Miles.	50,365,998
93	Average sum received for carrying a ton one mile	Pies.	7-62
94	Average number of tons in a train	Tons.	54-36
VEHICLES AND VEHICLE MILEAGE—			
Number of Goods vehicles hauled one mile.			
95	Loaded	... Vehicle Miles.	11,903,415
96	Empty	"	4,607,826
97	Brake-vans	"	573,726
98	Total	"	17,084,967
99	Average number of vehicles in a goods train		
100	Freight vehicles	No.	17-82
101	Brake-vans	"	-62
102	Total	"	18-44
103	Average earnings per goods vehicle per mile (excluding brakes)	Pies.	23-25
104	Carrying capacity hauled one mile (excluding brakes)	Tons.	98,889,270
105	Percentage of freight upon capacity hauled	Per cent.	60-93
106	Average load of a goods vehicle (including both loaded and empty)	Tons.	3-05
106	Average load of a loaded goods vehicle	"	4-23
WEIGHT OF TRAIN AND TON MILEAGE—			
Gross ton mileage of all goods trains.			
107	Freight	Ton Miles.	50,365,998
108	Dead-weight	"	98,558,648
109	Total	"	148,924,646
Average weight of a goods train			
110	Freight	Tons.	54-36
111	Dead-weight	"	106-38
112	Total	"	160-74
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.	16-45
115	Average cost of hauling a goods unit (viz. one ton) one mile	"	5-39
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	"	9-53
116	Average profit on working a goods train one mile	Rs.	-63
117	Average profit on working a goods vehicle with its load one mile	Pies.	6-80
118	Average profit on working a goods unit (viz. one ton) one mile	"	2-23

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SOUTH INDIAN RAILWAY.
(INCLUDING PONDICHERY RAILWAY.)
ANALYSIS OF WORKING.—(continued.)
HALF-YEAR ENDED 30th June 1893.

Progressive Number.	HEADINGS.		REMARKS.
No. VII.			
DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.			
Percentage to Total Earnings—			
119	Coaching Traffic	... Per cent.	51-37
120	Goods Traffic	"	46-95
121	Sundries, including Telegraph	"	1-68
122	Steam-boat Earnings	"	...
	Total Earnings	"	100-00
Percentage of Working Expenses upon Total Earnings—			
123	Maintenance	... Per cent.	15-03
124	Locomotive Expenses	"	22-54
125	Carriage and Wagon Expenses	"	5-96
126	Traffic Expenses	"	7-88
127	General Charges	"	6-95
128	Miscellaneous Charges	"	-71
129	Steam-boat Expenses	"	...
130	Total Working Expenses	"	59-07

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June 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. 1,050-01	Per mile of track including Sidings. 1,168-08	Per total Train-mile. 1,637,671	Per 1,000 gross ton miles. 259,674,738
IX(A) ...		1 & 2	General Superintendence—	Rs.	Rs.	As.	Rs.
1	3 to 5	6	Engineers' Salaries and allowances ...	54-20	48-72	56	22
			Subordinate Superintendents' salaries and allowances, including overtime ...	35-48	31-89	36	14
			Office expenses ...	32-12	28-88	33	13
		131	Total...	121-80	109-49	1-25	49
			Maintenance and Renewal of Permanent Way—				
2	1	2	Wages ...	111-59	100-31	1-14	45
			Materials ...	341-22	306-73	3-50	1-38
		132	Total...	452-81	407-04	4-64	1-83
			Repairs of Bridges, &c.—				
3	1	2	—Wages and Materials—				
			Bridges and tunnels ...	9-30	8-36	0-9	0-4
			Miscellaneous ...	11-35	10-21	1-2	0-4
		133	Total...	20-65	18-57	2-1	0-8
3(A)		134	Conservancy of Rivers—				
			Repairs of Stations and Buildings—				
4	1	2	—Wages and Materials—				
			Repairs of all, except staff quarters ...	25-83	23-22	2-6	1-0
			Repairs of staff quarters ...	4-49	4-04	0-5	0-2
		135	Total...	30-32	27-26	3-1	1-2
			Maintenance by Contract—				
5	1	2	Amount paid to Contractors ...				
			Materials supplied by the Railway ...				
			Total...				
6			New Minor Works—	5-30	4-76	0-5	0-2
			Unclassified Expenditure—				
7	1	2	Plantations ...	1-80	1-62	0-2	0-1
			Tools and Plant ...	8-13	7-30	0-8	0-3
			Loss by exchange ...				
			Loss on stores, &c. ...	4-01	3-65	0-4	0-2
			Freight on Stores ...	21-07	18-94	2-2	0-8
			Total...	35-01	31-46	3-6	1-4
			Total Heads, 5, 6 and 7	40-31	36-22	4-1	1-6
			Less Credits	56-15	50-47	5-7	2-2
186			Net Total, Other Charges	-15-84	-14-25	-1-6	-0-6
137			Total Maintenance	609-74	548-11	6-25	2-46

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June 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.	Per Engine mile.	Per 1,000 gross ton-miles.	
				1,637,671	1,907,276	259,674,738	
IX (B) 1	1 & 2 3 to 5 6	138	General Superintendence—	As.	As.	Rs.	
			Salaries of Superintendents and Assistants, including allowances	14	12	05	
			Ditto of Subordinate ditto including ditto	26	22	10	
				Office expense	21	18	09
			Total...	61	52	23	
	2	1 & 2 3 4	139	Running Expenses—			
				Wages of Drivers and firemen, including overtime	1 36	1 17	5 36
				Fuelling, cleaning and looking after engines	20	17	0 81
				Contingent expenses	01	01	0 3
			Total...	1 57	1 35	6 2	
3	1 to 4		Fuel.—(In terms of coal)	lbs.	lbs.	lbs.	
			Average quantity consumed	35 14	30 18	221 63	
			Average price per ton Rs. 14 63	As.	As.	Rs.	
		140	Do. cost	3 67	3 15	1 45	
4		141	Water.—Including wages and Stores	16	14	06	
5		142	Oil, tallow and other Stores	32	27	13	
			Maintenance and Renewals—				
6	1 & 2 3	143	Wages including overtime	92	79	36	
			Materials	1 80	1 60	73	
		Total...	2 78	2 39	1 09		
6 A.	...	...	Machinery	02	02	01	
7			New Minor works				
8			Payments to other lines				
			Unclassified Expenditure—				
9	1 2 3		Loss by exchange	02	01	01	
			Loss on Stores, &c.	29	25	11	
			Freight on Stores				
		Total...	31	26	12		
		Total Heads 7, 8 and 9...	31	26	12		
		Less Credits	06	05	02		
		144 Net Total, other Charges	25	21	10		
		145 Total, Locomotive Expenses	9 39	8 05	3 69		

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June 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.
				1,637,671	30,934,240
				As.	Rs.
<i>General Superintendence—</i>					
IX (C) 1	1 & 2		Salaries of Superintendents, including allowances ...	·04	·13
	3 to 5		Ditto of Subordinate ditto, including ditto ...	·07	·25
	6		Office expenses ...	·06	·19
		146	Total ...	·17	·57
<i>Repairs and Renewals of Vehicles and Machinery—</i>					
2	1 to 3		Coaching Vehicles... { Wages including overtime... ..	·30	2·22
			Materials	·76	5·55
		147	Total ...	1·06	7·77
	1 to 3		Goods Vehicles ... { Wages including overtime... ..	·25	1·52
			Materials	·78	4·67
		148	Total ...	1·03	6·19
<i>Cleaning and Oiling—</i>					
3	1		Labour, including wages of Oilers, &c....	·16	·54
	2		Stores	·04	·14
		149	Total ...	·20	·68
<i>New Minor Works—</i>					
<i>Unclassified Expenditure—</i>					
5	1		Loss by exchange		
	2		Loss on Stores, &c.		
	3		Freight on Stores	·02	·06
			Total ...	·02	·06
<i>Total Heads, 4 and 5...</i>				·03	·06
<i>Less Credits</i>				·001	·003
		150	Net Total, Other Charges	·02	·06
		151	Total, Carriage and Wagon Expenses	2·48	8·21

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERRY RAILWAY.)

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June 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.
				1,637,671	41,87,504
				As.	Percent.
<i>General Superintendence—</i>					
IX (D) 1	(a) 1 & 3		Traffic Manager, Assistants, &c., including travelling allowances.	·33	·80
	(a) 2 & 4		Office Establishment and contingencies	·13	·33
		152	Total ...	·46	1·13
	(b) 153		Station Staff	1·48	3·61
	(c) 154		Train Staff	·31	·75
2	1 to 3	155	Fuel, Lighting, Water and General Stores	·47	1·15
3		156	Clothing	·06	·14
4		157	Printing Stationery and Tickets	·40	·97
5		158	Charges for delivery and collection of goods, &c.	·0001	·0002
6		159	Miscellaneous Expenses	·02	·07
<i>Payments to other Lines—</i>					
7	1	160	Expenses at joint Stations	·05	·13
<i>Unclassified Expenditure—</i>					
8	1		Loss by Exchange		
	2		Loss on Stores, &c.		
	3		Freight on Stores	·03	·07
			Total Head, 8 ...	·03	·07
<i>Less Credits</i>				·004	·01
		161	Net Total, Other Charges	·03	·06
		162	Total Traffic Expenses	3·28	8·01

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SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING—(contd.) HALF-YEAR ENDED 30th June 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.
				1,637,671	42.59,163
IX (E) 1	1 to 4	163	Home Expenditure	As.	Percent.
1 a			Government Supervision Audit and Control	51	1.23
			Indian Management—		
	1	164	Agent's Office, including travelling allowances and contingencies	41	.96
	2		Auditor's office ditto ditto	21	.50
	3		Accounts office ditto ditto	57	1.37
	4		Paymaster's office ditto ditto		
2		165	Total 2 to 4	57	1.37
	5	166	Store Department, ditto ditto	13	.31
	6	167	Medical Department, ditto ditto	12	.28
	7		Rents	.001	.002
	8 to 10		Miscellaneous expenses, including printing stationery and medicine	20	.49
		168	Total 7 to 10... ..	20	.49
3	1 to 3	169	Police	13	.30
4		170	Advertising	.02	.04
			Electric Telegraph—		
	1 to 4		Salaries, &c.	24	.57
	5		Maintenance (Wages and Stores)	.02	.05
	6		Government Telegraph Department, for rent, maintenance and inspection	33	.81
		171	Total... ..	59	1.43
6			Clearing Accounts, with other lines—		
			Unclassified Expenditure—		
	1		Loss by exchange		
	2		Loss on Stores, &c.	.004	.01
	3		Freight on Stores	.003	.01
			Total... ..	.007	.02
			Total Heads, 6 and 7	.007	.02
			Less Credits	.001	.001
		172	Net Total, Other Charges	.006	.02
		173	Total General Charges	2.89	6.95

Earnings of the South Indian Railway Company Ra. 42,47,883 10 4
Less amount received for working Pondicherry Railway Company's Line " 16,044 8 0

Earnings of the Pondicherry Railway Company 42,31,839 7 4
" 27,323 8 4

Ra. 42,59,162 10 8

15

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

ANALYSIS OF WORKING—(continued.)—HALF-YEAR ENDED 30th June 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.			
IX (F)	...		Working Expenses—	Per cent.
1	1		Salaries and allowances of Officers and crews	
	2		Loading and unloading vessels	
	3		Pilotage fees	
	4		Contingencies	
			Repairs—	
2	1		Wages	
	2		Materials	
3	1 to 5	173 a	Fuel	
4	...		Miscellaneous Stores	
5	1 & 2		Steam Traffic Agencies	
6	...		New Minor Works	
7	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.			
IX (G) 1	...	174	Loss Charges—	42.59,163
			Compensation—	.01
	1		For goods lost or damaged	
	2		" Personal injury	.05
	3		" Other claims	
		175	Total... ..	.05
3	...	176	Rates and Taxes	.24
			Payments to other Lines—	
	1		Hire of Locomotives	
	2		" of Vehicles	
	3		Miscellaneous of foreign stock	
	4		Rent of stations, &c., jointly occupied	.001
		177	Total... ..	.03
5	...		Contribution to Provident Fund	.23
6 to 8	...		Miscellaneous	.03
			Total Heads 5 to 8	.33
			Less Credits	
		178	Net Total Other Charges	.33
		179	Total Special and Miscellaneous Expenses	.71

WILLIAM S. BETTS,
Agent.

SOUTH INDIAN RAILWAY.

(INCLUDING PONDICHERY RAILWAY.)

APPENDICES TO ANALYSIS OF WORKING.

HALF-YEAR ENDED 30th June 1893.

APPENDIX I.

Working of Locomotives.

Reference to Revenue Account.	Table & main head.	Sub-head.	Passenger.	Passenger.	Goods.	Tank.	Total.
				4 coupled Ta. Ca. Qa.	6 coupled Ta. Ca. Qa.	4 Coupled. Ta. Ca. Qa.	6 Coupled. Ta. Ca. Qa.
		1—Wheels coupled	...	7 0 0	6 0 0	6 8 0	8 0 3
		2—Weight on driving axle	S. I. R. Nellore. V. G.	0 0 0 6 13 0	6 15 0 7 16 0	...	...
		3—Weight of Engine in steam	S. I. R. Nellore. V. G.	20 0 0 0 0 0 21 8 0	18 0 0 12 18 0 22 5 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 12 16 0	...	...
XII	6	1—Number of Locomotives erected and made over to Locomotive Department	...	61	131	8	299
	11	2—Average number of Locomotives constantly under repairs and renewals	...	7.077	18.912	2.624	28.613
		3—Number of Locomotives laid by as spare	...	...	2	...	2
		4—Ditto lent or hired out to other lines	...	...	...	...	...
		5—Average number of Locomotives 1—(3 + 4)	...	61	129	8	199
		6—Total Mileage of Locomotives (5)	...	577,097	1,275,358	54,621	1,907,276
		7—Average miles run by a Locomotive of each class 6 ÷ 5	...	9,461	9,896	6,853	9,633
		Per diem.	...	82.27	84.62	87.86	88.28
		8—Weight of coal &c. used per engine mile	...	11a.	1ba.	1ba.	1ba.
		9—Weight of wood used per engine mile	...	19.40	37.06	21.47	30.13
			Passenger Trains.	Goods Trains.	Mixed Trains.		
		10—Average gross weight of trains hauled Tons...	109.23	114.24	135.15		124.92
		11—Average speed between stations Miles per hour...	20	13	16		
		12—Average through speed Miles per hour...	16	9	12		
		13—Average consumption of coal per engine mile.	23.63	28.15	28.40		

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

Khurbuloree	...	1	Singareeni...	...	...	1.04
Australian	...	727	Wood	...	...	1.28
English	...	789	Patent fuel...	...	...	637
Borekur	...	687				

Three old engines which have been condemned and replaced by new ones at the cost of Revenue are still temporarily employed and one construction engine standing at debit of stores is employed on the M. M. Railway pending orders regarding the adjustment of its value. These engines are not included in the above statement but three of them are employed on the M. M. Railway and one is

APPENDIX II.

SOUTH INDIAN
(INCLUDING
APPENDICES TO ANALYSIS
APPEN
Working of

[illegible]

* These wagons were not used during the half year ending 30th June 1893.

RAILWAY. THE
HYDICHERRY RAILWAY.)
OF WORKING.—(contd.) HALF-YEAR ENDED 30th June 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.	i.	a.	a.	e.	P.
		1,762	...	...	38,764	17,620
		7,822	...	...	172,064	78,220
		806,600	...	...	8,079,200	2,695,112
		4,536	...	...	89,792	45,360
		531,136	...	...	8,190,117	2,862,823
		1,000,158	...	...	16,002,528	5,840,923
		9,134,693	...	...	300,806,278	47,362,169
		517,285	...	...	33,106,240	5,307,344
187	187	1,841,639	19,409	...	5,561,739	10,484,949
		101,888				574,618
187	187	13,947,539	19,409	462		75,869,158
14,064	13,775	11,964,632	4,594,061	...	99,289,879	64,477,938
		357,016	38,973			2,640,226
14,064	13,775	12,305,648	4,633,024	28,158	---	67,118,164
14,261	13,962	26,253,187	4,652,433	28,620	---	112,337,322

* Includes 1,047 miles run by Travelling Crane.		
The average mileage per diem run by	Coaching Vehicles	77,167
	Goods do.	93,738

SOUTH INDIAN RAILWAY.

UNCLUDING PONDICHERRY RAILWAY.)

APPENDICES TO ANALYSIS OF WORKING.—(contd.)

HALF-YEAR ENDED 30th June 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	721,900	9,440,461	8,878,107	
Second class	1,440,468	29,070,790	8,843,872	
Third or Intermediate class				
Fourth or Lowest class	9,875,090	326,797,453	51,531,007	
Total Passenger vehicles	12,037,453	365,308,644	64,252,686	
Other coaching vehicles	1,563,931	4,985,007	9,374,937	
Total paying coaching mileage	13,701,389		73,627,623	
Passenger brake-vans	111,576		643,001	
Total coaching mileage including brakes	13,813,265		74,270,824	
Goods—				
Loaded Vehicles	11,903,415	71,287,015	46,304,543	
Empty do.	4,607,826	27,802,258	17,922,101	
Total paying goods mileage	16,511,241	98,889,270	64,226,644	
Goods brake-vans	573,728		3,659,935	
Total goods mileage, including brakes	17,084,967	98,889,270	67,886,579	
Miscellaneous—				
Free Mileage for inspection, &c... ..	35,601		230,119	
GRAND TOTAL ...	30,933,833		142,387,323	

SOUTH INDIAN RAILWAY.

APPENDICES TO ANALYSIS OF WORKING.—(continued.)

HALF-YEAR ENDED 30th June 1893.

APPENDIX IV.

Maintenance of Way.

RAILS.

DETAILS.	IRON.	STEEL.	Total Iron and Steel.
	Double beaked-weighting 68 lbs. per yard.	Steel, weighing 41 lbs. per yard.	Steel, weighing 60 lbs. per yard.
	Flat footed weighing 40 3/4 lbs. per yard.	Steel, weighing 80 lbs. per yard.	Total
	Flat footed weighing 35 3/4 lbs. per yard.		
	Total		
1 Miles of rail in way, including sidings	286.66	859.40	1,653.92
2 Rails removed	2.64	130.86	130.86
3 New Rails laid	7.04	89.20	49.76
	48.74	0.04	181.94
	371.62	794.96	2,316.82

Total mileage of Iron and steel Rails laid ... 49.76
do. removed ... 181.94
Decrease ... 132.18

Decrease is due to Ithamavaram Contahel section handed over to S. M. Ry. on the 1st January 1893 being excluded from this Return.

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

HALF-YEAR ENDED 30th June 1893.

APPENDIX V.

Maintenance of Way.

SLEEPERS.

DETAILS.	WOOD.										IRON.				STEEL TRANSVERSE SLEEPERS.
	TRANSVERSE.						Longitudinal.				Total.				
	Crossed Pine 9'x10" x 5"	Crossed Round 6' x 10" x 5"	Tie of sleep 6' x 9" x 4 1/2"	Total			Pot sleepers Weighing 60 lbs.				Pot sleepers Weighing 87 lbs.				
	No.	No.	No.	No.	No.	No.	Pair.	Pair.	Pair.	Pair.	Pair.	Pair.	No.	No.	
1	Number of Sleepers in way, including sidings at the commencement of the half-year.	47,422	835,793	80,691	63,709	497,616	223,634	696,513	12,667	932,734	92,135	900,024			
2	Average age of Sleepers in way at the end of the half-year... Years...	30.88	14.59	20.85	8.26	15.02	23.65	4.56	8.62	9.12	6.65	8.04			
3	Number removed	1	56,727	2,688	6,747	66,163	6,634	67	1,985	8,687	232	143,734			
4	Number laid	1	5,003	772	6,872	12,648	96	79,021	20	79,137	232	1,264			
5	Percentage of removals on total of each class (%)	.002	16.89	8.30	10.69	13.29	2.96	.009	16.68	.93	.26	15.97			
6	Number of Sleepers in way, including sidings at the end of the half-year	47,423	861,069	46,776	63,834	444,100	217,025	776,467	10,692	1,003,184	92,135	767,374			

Total number of Wooden, Iron and Steel sleepers laid ... 95,301
Total number removed ... 216,816

Decrease ... 126,516

Decrease is due to Dharmavaram Cantalal section handed over to S. M. Z. on the 1st January 1893 being excluded from this Return.

P. W. CURRENT No. 8649

No 130306 of 26.10.93

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Enrollment from the
Congress for Rs. 12. Oct 1893

Ordered to be
forwarded to the Director
in continuation of P.W.D. letter No. 1303 of 12/10/93
General of Railways, and
to the Secretary of State.
No. 1304 & R of 26 Oct 1893
Forwarded.
To the Agent S. P. by the 'ER'
- - - - -

Recd: 12.10.93

11/10/1893
No. 1303 R of 26 Oct 1893
To the Rt Hon. the Secy of State
for India

My Lord,
We have the honor
to forward a copy of our
Prop. No 1303 R of 26 Oct 1893
embodying the analysis of
working of the South Indian
Railway (including) Proceedings by
for the first half of 1892.

DESPATCHED
31 OCT. 93.

7 Nov 14 R