Public Works (1894) Department.

RAILWAY BRANCH.

G.O., No. 553-54 R.
20/553 R.

DATED 17th October 1894.

[Despatch Abstract.]

South Indian Railway

Ordered that the analysis of working of the — including the Mayavaram Mutupet & Pondicherry Railways for the half year ended the 30th June 1894 be forwarded to the Director-General of Rys & to the Secretary of State.

Forwarding the analysis of working of the — including of the Mayavaram Mutupet & Pondicherry Rys for the half year ended the 30-6-94.

Forwarding copy of Proceeding embodying the analysis of working of the South Indian including the Mayavaram Mutupet & Pondicherry Railways for the half year ended the 30th June 1894.

[illegible]

BACK PAPERS.

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

FURTHER PAPERS.

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

17TH OCTOBER 1894, No. 553 R., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper:—

From the Agent, South Indian Railway, dated 15th October 1894, No. 1028.

ORDER—dated 17th October 1894, No. 553 R., Public Works.

Ordered that nine copies of the working analysis of the South Indian including the Máyavaram-Muttupet and Pondicherry Railways for the half-year ended the 30th June 1894 be forwarded to the Director-General of Railways and to the Secretary of State for India.

[Here enter No. 554 R., dated 17th October 1894.]

(True Extract.)

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

To the Agent, South Indian Railway.
„ Examiner, Railway Accounts.

ENDORSEMENT—dated 17th October 1894, No. 554 R., Public Works.

Forwarded.

(By Order.)

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

Fwd. C. M. Brisson.
Spare Copies

RAILWAY.

Govt. of {1894} Madras.

PUBLIC WORKS.

Dated October, 17th.

Read. *Encl.*

G.O., 17th Oct. 1894, Nos. 553, 554 R.

OCTOBER.

South Indian Railway

Forwarding the analysis of working of the — including the Máyavaram-Muttupet and Pondicherry Railways for the half-year ended the 30th June 1894.

17TH OCTOBER 1894, No. $\frac{20}{553}$ R., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

SIR,

We have the honour to forward herewith copy of Proceedings of this Government, No. 553 R., dated 17th October 1894, embodying the analysis of working of the South Indian including the Máyavaram-Muttupet and Pondicherry Railways for the half-year ended the 30th June 1894.

We have the honour to be,
Sir,
Your most obedient, humble servants,

(Signed) H. W. BLISS.
(„) J. GROSE.

FORT ST. GEORGE,
17th October 1894.

Ed. C. M. Briston.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. $\frac{20}{553}$ R., dated 17th Oct. 1894.

FORWARDING copy of Proceedings embodying the analysis of working of the South Indian including the Máyavaram-Muttupet and Pondicherry Railways for the half-year ended the 30th June 1894.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING

FOR THE

Half-Year ended 30th June 1894.

TRICHINOPOLY:—BRANCH "ECLIPSE" PRESS.

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SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING

FOR THE HALF-YEAR ENDED *30th June 1894.*

Progressive Number.	Headings.		Ft. In.	Remarks.
	No. 1.			
	DESCRIPTION OF RAILWAY WORKED.			
1	Gauge of Railway ...		3 3½	
2	Mean mileage worked ...	*Miles.*	1,076·16	
3	Number of stations ...	*No.*	165	
4	Total length of the following gradients ...			
	(*a*) 1/60 and less ...	*Miles.*		
	(*b*) 1/60 to 1/80 ...	„		
	(*c*) 1/80 to 1/100 ...	„	116·35	Excluding Pondicherry Railway.
	(*d*) 1/100 to 1/200 ...	„	197·52	
	(*e*) 1/200 to 1/300 ...	„	85·18	
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.*	1·91	
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.*	69,224·12	
9	Total earnings per mile open per week ...	„	140·26	
10	Total working expenses per-mile per week ...	„	86·16	
11	Total earnings per train-mile ...	„	2·51	
12	Total working expenses per train-mile ...	„	1·54	
13	Net earnings per train-mile ...	„	·97	
14	Cost per 1,000 gross ton-miles moved (freight and dead weight) ...	„	9·57	
15	Percentage of total working expenses upon total earnings ...	*Per cent.*	61·43	
16	Percentage of total working expenses upon total earnings, excluding from both sides of the account the charges for carriage of Revenue Stores ...	„	60·87	
	(*Inclusive of Steam Boat Service*)			
17	Percentage of total working expenses on total earnings (for details see table No. VII.) ...	„	61·43	
	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.*	23,54,087	
	Proportions, *dividing expenditure in ratio of gross ton mileage (freight and dead load)*—			
19	Coaching ...	„	11,01,904	
20	Goods ...	„	12,52,183	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING—(*continued.*)

HALF-YEAR ENDED *30th June 1894.*

Progressive Number.	HEADINGS.			REMARKS.
	No. V.			
	COACHING TRAFFIC.			
	GROSS RECEIPTS AND TRAIN-MILEAGE—			
21	Receipts from coaching Traffic ...	*Rs.*	21,08,331	
22	Coaching Train miles run ...	*No.*	742,857	
23	Average coaching receipts per train-mile ...	*Rs.*	2·84	
	UNITS AND UNIT MILEAGE—			
	Number of units carried one mile.			
24	1st class ...	*Unit Miles.*	591,347	
25	2nd ,, ...	,,	3,724,765	
26	3rd or Intermediate class ...	,,	161,407,555	
27	4th or Lowest class ...	,,	185,633,067	
28	Total Passenger unit mileage ...	,,	412,054	
29	Other coaching traffic ...	*Ton Miles.*		
	Average sum received for carrying a unit one mile.			
30	1st class ...	*Pies.*	10·84	
31	2nd ,, ...	,,	3·93	
32	3rd or Intermediate class ...	,,	2·00	
33	4th or lowest class ...	,,	2·06	
34	Average for all classes ...	,,	54·66	
35	Other coaching traffic per ton mile ...	,,		
	Average number of units in a train			
36	1st class ...	*No.*	·67	
37	2nd ,, ...	,,	5·02	
38	3rd or Intermediate class ...	,,	244 37	
39	4th or Lowest class ...	,,	250·06	
40	Total passenger units ...	,,	·56	
41	Other coaching traffic ...	*Tons.*		
	VEHICLES AND VEHICLE MILEAGE—			
	Number of Coaching Vehicles hauled one mile.			
42	1st class ...	*Vehicle Miles*	746,971	
43	2nd ,, ...	,,	1,229,622	
44	3rd or Intermediate class ...	,,	9,928,391	
45	4th or Lowest class ...	,,	1,778,169	
46	Other Vehicles ...	,,	120,454	
47	Brake-Vans ...	,,	13,803,607	
48	Total ...	,,		
	Average number of Vehicles in a coaching train.			
49	1st Class ...	*No.*	1·01	
50	2nd ,, ...	,,	1·66	
51	3rd or Intermediate class ...	,,	13·37	
52	4th or Lowest class ...	,,	2·39	
53	Other Vehicles ...	,,	·16	
54	Brake-vans ...	,,	18·59	
55	Total ...	,,		
	Average earnings per coaching vehicle per mile.			
56	1st class ...	*Pies.*	7·28	
57	2nd ,, ...	,,	11·90	
58	3rd or Intermediate class ...	,,	36·49	
59	4th or Lowest class ...	,,	12·67	
60	Other vehicles ...	,,		
	Carrying capacity hauled one mile (excluding brakes)			
61	1st class ...	*Seats.*	8,871,120	
62	2nd ,, ...	,,	17,246,005	
63	3rd or Intermediate class ...	,,	342,912,046	
64	4th or Lowest class ...	,,	7,067,091	
65	Other vehicles ...	*Tons.*		
	Percentage of freight upon capacity hauled			
66	1st class ...	*Per cent.*	5·65	
67	2nd ,, ...	,,	21·60	
68	3rd or Intermediate class ...	,,	52·90	
69	4th or Lowest class ...	,,	5·83	
70	Other vehicles ...	,,		

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *30th June 1894.*

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.*	11,041,623	
72	Dead-weight	,,	103,499,234	
73	Total	,,	115,113,857	
	Average weight of a coaching train.			
74	Freight	*Tons.*	15·09	
75	Dead-weight	,,	139·42	
76	Total	,,	155·11	
	COST OF WORKING AND PROFITS—			
77	Average cost of hauling a coaching train one mile	*Rs.*	1·48	
78	Average cost of hauling, a coaching vehicle with its load one mile .	*Pies.*	15·46	
	Average cost of hauling a coaching unit one mile.			
79	Per passenger unit	,,	1·61	
80	Other traffic per ton	,,	59·91	
81	Average profit on working a coaching train one mile ...	*Rs.*	1·36	
	Average profit on working a coaching vehicle one mile.			
82	1st class	*Pies.*	8·18	*Loss.*
83	2nd ,,	,,	3·56	*do.*
84	3rd or Intermediate class	,,		
85	4th or Lowest class	,,	21·03	
86	Other vehicles	,,	2·79	*Loss.*
	Average profit on working a coaching unit one mile.			
87	Per passenger unit	*Pies.*	1·05	
88	Other traffic per ton	,,	6·29	*Loss.*

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *30th June, 1894.*

Progressive Number.	Headings.			Remarks.
	No. VI.			
	GOODS TRAFFIC.			
	GROSS RECEIPTS AND TRAIN-MILEAGE—			
89	Receipts from Goods Traffic ...	*Rs.*	17,52,125	
90	Goods Train-miles run ...	*No.*	821,043	
91	Average goods receipts per train-mile ...	*Rs.*	2·13	
	UNITS AND UNIT MILEAGE—			
92	Tons of Goods carried one mile ...	*Ton Miles.*	43,937,923	
93	Average sum received for carrying a ton one mile	*Pies.*	7·06	
94	Average number of tons in a train	*Tons.*	53·51	
	VEHICLES AND VEHICLE MILEAGE—			
	Number of Goods vehicles hauled one mile.			
95	Loaded ...	*Vehicle Miles.*	10,350,172	
96	Empty	,,	4,083,902	
97	Brake-vans	,,	486,968	
98	Total	,,	14,921,042	
	Average number of vehicles in a goods train			
99	Freight vehicles	*No.*	17·58	
100	Brake vans	,,	·59	
101	Total	,,	18·17	
102	Average earnings per goods vehicle per mile (excluding brakes)	*Pies.*	23·31	
103	Carrying capacity hauled one mile (excluding brakes)	*Tons.*	86,957,428	
104	Percentage of freight upon capacity hauled	*Per cent.*	50·53	
105	Average load of a goods vehicle (including both loaded and empty)	*Tons.*	3·01	
106	Average load of a loaded goods vehicle	,,	4·25	
	WEIGHT OF TRAIN AND TON MILEAGE—			
	Gross ton mileage of all goods trains.			
107	Freight	*Ton Miles.*	43,937,923	
108	Dead-weight	,,	86,909,462	
109	Total	,,	130,847,385	
	Average weight of a goods train			
110	Freight	*Tons.*	53·51	
111	Dead-weight	,,	105·85	
112	Total	,,	159·36	
	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.*	16·66	
115	Average cost of hauling a goods unit (viz. one ton) one mile ...	,,	5·47	
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 ...	,,	10·07	
116	Average profit on working a goods train one mile	*Rs.*	·60	
117	Average profit on working a goods vehicle with its load one mile ...	*Pies.*	6·65	
118	Average profit on working a goods unit (viz. one ton) one mile ...	,,	2·19	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *30th June 1894.*

Progressive Number.	Headings.		Remarks.
	No. VII.		
	DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.		
	Percentage to Total Earnings—		
119	Coaching Traffic ...	*Per cent.* 53·72	
120	Goods Traffic ...	,, 44·65	
121	Sundries, including Telegraph ...	,, 1·63	
122	Steam-boat Earnings ...	,,	
	Total Earnings ...	,, 100·00	
	Percentage of Working Expenses upon Total Earnings—		
123	Maintenance ...	*Per cent.* 14·48	
124	Locomotive Expenses ...	,, 21·48	
125	Carriage and Wagon Expenses ...	,, 8·08	
126	Traffic Expenses ...	,, 9·06	
127	General Charges ...	,, 7·58	
128	Miscellaneous Charges ...	,, ·75	
129	Steam-boat Expenses ...	,,	
130	Total Working Expenses ...	,, 61·43	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *30th June 1894.*

No. VIII.—Working Expenses.

TABLE A.

Maintenance of Way, Works and Stations.

Reference to Revenue Account. Table and main-head.	Sub-head.	Progressive number in Analysis.	DETAILS.	*a.* Per mile of line maintained. 1,076·16	*b.* Per mile of track including Sidings. 1,203·69	*c.* Per total Train-mile. 1,563,400	*d.* Per 1,000 gross ton miles. 245,991,242
				Rs.	Rs.	As.	Rs.
IX(A)	...		*General Superintendence—*				
1	1&2		Engineers' Salaries and allowances ...	51·79	46·30	·57	·23
	3to5		Subordinate Superintendents' salaries and allowances, including overtime ...	31·06	28·58	·35	·14
	6		Office expenses ...	32·30	28·88	·36	·14
		131	Total...	116·05	103·76	1·28	·51
			Maintenance and Renewal of Permanent Way—				
2	1		Wages ...	110·49	98·79	1·22	·48
	2		Materials ...	208·56	210·10	2·96	1 18
		132	Total...	379·05	339 89	4·18	1·66
			Repairs of Bridges, &c.— —Wages and Materials.—				
3	1		Bridges and tunnels ...	20·76	18·56	·23	·09
	2		Miscellaneous ...	11·75	10·51	·13	·05
		133	Total...	32·51	29·07	·36	·14
3(A)		134	*Conservancy of Rivers—*				
			Repairs of Stations and Buildings —Wages and Materials—				
4	1		Repairs of all, except staff quarters ...	13·10	11·71	·14	·06
	2		Repairs of staff quarters ...	2·72	2·43	·03	·01
		135	Total...	15·82	14·14	·17	·07
			Maintenance by Contract—				
5	1		Amount paid to Contractors ...				
	2		Materials supplied by the Railway ...				
			Total...				
6			*New Minor Works—*	10·90	9·80	·12	·05
			Unclassified Expenditure—				
7	1		Plantations ...	2·23	1·99	·03	·010
	2		Tools and Plant ...	7·03	6·32	·08	·033
	3		Loss by exchange ...				
	4		Loss on stores, &c. ...	·85	·76	·01	·004
	5		Freight on Stores ...	19·27	17·23	·21	·061
			Total .	29·98	26·80	·33	·131
			Total Heads, 5, 6 and 7 ...	40·94	36·60	·45	·18
			Less Credits ...	66·17	50·22	·62	·25
		136	*Net Total, Other Charges* ...	**15·23**	**13·62**	**·17**	**·07**
		137	*Total Maintenance* ...	528·20	472·24	5·82	2·31

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *30th June 1894.*

No. VIII.—Working Expenses.—*(contd.)*

TABLE *B.*

Locomotive Expenses.

Reference to Revenue Account. Table and main-head.	Sub-head.	Progressive number in Analysis.	DETAILS.	*a.* Per total Train-mile. 1,563,400	*b.* Per Engine mile. 1,843,680	*c.* Per 1,000 gross ton-miles. 245,991,242
				As.	As.	Rs.
			General Superintendence—			
IX (B) 1	1 & 2		Salaries of Superintendents and Assistants, including allowances ...	·15	·12	·06
	3 to 5		Ditto of Subordinate ditto including ditto ...	·26	·23	·10
	6		Office expenses ...	·22	·19	·09
		138	Total...	·63	·54	·25
			Running Expenses—			
2	1 & 2		Wages of Drivers and firemen, including overtime ...	1·38	1·17	·55
	3		Fuelling, cleaning and looking after engines ...	·21	·18	·08
	4		Contingent expenses ...	·02	·01	·01
		139	Total...	1·61	1·36	·64
3	1 to 4		*Fuel.*—(In terms of coal)	lbs.	lbs.	lbs.
			Average quantity consumed	35·22	29 86	223 82
				As.	As.	Rs.
			Average price per ton Rs. 13·80			
		140	Do. cost	3·47	2·94	1·38
4		141	*Water* —Including wages and Stores	·16	·13	·06
5		142	*Oil, tallow and other Stores*	·32	·27	·13
			Maintenance and Renewals—			
6	1 & 2		Wages including overtime	1·08	·92	·43
	3		Materials	·99	·84	·39
		143	Total...	2·07	1·76	·82
6 A.	...	...	Machinery	·05	·05	·02
7			*New Minor works*			
8			*Payments to other lines*			
			Unclassified Expenditure—			
9	1		Loss by exchange			
	2		Loss on Stores, &c.	·02	·02	·01
	3		Freight on Stores	·33	·27	·13
			Total...	·35	·29	·14
			Total Heads 7, 8 and 9...	·35	·29	·14
			Less Credits	·03	·03	·01
		144	*Net Total, other Charges*	·32	·26	·13
		145	*Total, Locomotive Expenses*	8·03	7·31	3·43

SOUTH INDIAN RAILWAY.

(*INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.*)

ANALYSIS OF WORKING.—(*contd.*)—HALF-YEAR ENDED *30th June 1894.*

No. VIII.—Working Expenses.—(*contd.*)

TABLE *C.*

Carriage and Wagon Expenses.

Reference to Revenue Account. Table and main-head.	Sub-head.	Progressive number in Analysis.	DETAILS.		a. Per total Train-mile. 1,563,400	b. Per 1,000 Vehicle miles run by home Vehicles. 28,616,035
			General Superintendence—		As.	Rs.
IX (C) 1	1 & 2		Salaries of Superintendents, including allowances	...	·05	·16
	3 to 5		Ditto of Subordinate ditto, including ditto	...	·09	·30
	6		Office expenses	...	·07	·25
		146		Total...	·21	·71
			Repairs and Renewals of Vehicles and Machinery—			
2	1 to 3		Coaching Vehicles... Wages including overtime...	...	·32	2·25
			Materials		·80	5·58
		147		Total...	1·12	7·83
	1 to 3		Goods Vehicles ... Wages including overtime...	...	·25	1·64
			Materials	...	1·32	8·79
		148		Total...	1·57	10·43
2A			Machinery	...	·01	·06
			Cleaning and Oiling—			
3	1		Labour, including wages of Oilers, &c	...	·20	·67
	2		Stores	...	·05	·18
		149		Total...	·25	·85
4			*New Minor Works—*		·005	·02
			Unclassified Expenditure—			
5	1		Loss by exchange	...		
	2		Loss on Stores, &c.	...	·07	·24
	3		Freight on Stores	...	·01	·04
				Total...	·08	·28
			Total Heads, 4 and 5...	...	·085	·31
			Less Credits	..	·001	·003
		150	*Net Total, Other Charges*	...	·084	·31
		151	*Total, Carriage and Wagon Expenses*	...	3·24	11·08

SOUTH INDIAN RAILWAY.

(*INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.*)

ANALYSIS OF WORKING.—(*contd.*)—HALF-YEAR ENDED *30th June 1894.*

No. VIII.—Working Expenses.—(*contd.*)

TABLE *D.*

Traffic Expenses.

Reference to Revenue Account. Table and main-head.	Sub-head.	Progressive number in Analysis.	DETAILS.	a. Per total Train-Mile. 1,563,400	b. Per cent of Traffic earnings. Abstracts H. and I. 38,60,456
			General Superintendence—	As.	Percent.
IX (D) 1	(a) 1 & 3		Traffic Manager, Assistants, &c., including travelling allowances.	·39	·99
	(a) 2 & 4		Office Establishment and contingencies	·14	·36
		152	Total ...	·53	1·35
	(b)	153	*Station Staff*	1·62	4·10
	(c)	154	*Train Staff*	·32	·81
2	1 to 3	155	*Fuel, Lighting, Water and General Stores*	·49	1·23
3		156	*Clothing*	·07	·17
4		157	*Printing Stationery and Tickets*	·49	1·25
5		158	*Charges for delivery and collection of goods, &c.*	...	...
6		159	*Miscellaneous Expenses*	·01	·03
			Payments to other Lines—		
7	1	160	Expenses at joint Stations	·07	·18
			Unclassified Expenditure—		
8	1		Loss by Exchange		
	2		Loss on Stores, &c.	·01	·02
	3		Freight on Stores	·03	·07
			Total Head, 8 ...	·04	·09
			Less Credits	·001	·003
		161	*Net Total, Other Charges*	·04	·09
		162	*Total Traffic Expenses*	3·64	9·21

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING—*(contd.)* HALF-YEAR ENDED *30th June 1894.*

No. VIII.—Working Expenses—*(contd.)*

TABLE *E.*

General Charges.

Reference to Revenue Account. Table and main-head.	Sub-head.	Progressive number in Analysis.	DETAILS.	(a) Per total Train-Mile.	(b) Per cent on total earnings.
				1,563,400	39,24,402
				As.	Percent.
IX (E) 1	1 to 4	163	*Home Expenditure*	·46	1·15
1 a			*Government Supervision Audit and Control*	·43	1·06
			Indian Management—		
	1	164	Agent's Office, including travelling allowances and contingencies	·22	·55
	2		Auditor's office ditto ditto		
	3		Accounts office ditto ditto	·68	1·69
	4		Paymaster's office ditto ditto		
2		165	Total 2 to 4	·66	1·69
	5	166	Store Department, ditto ditto	·14	·35
	6	167	Medical Department, ditto ditto	·13	·32
	7		Rents	·001	·002
	8 to 10		Miscellaneous expenses, including printing stationery and medicine	·18	·46
		168	Total 7 to 10...	·18	·46
3	1 to 3	169	*Police*	·17	·12
4		170	*Advertising*	·02	·05
			Electric Telegraph—		
	1 to 4		Salaries, &c., ...	·24	·60
5	5		Maintenance (Wages and Stores)	·01	·03
	6		Government Telegraph Department, for rent, maintenance and inspection	·36	·90
		171	Total...	·61	1·53
6			*Clearing Accounts, with other lines—*		
			Unclassified Expenditure—		
	1		Loss by exchange	·0024	·006
7	2		Loss on Stores, &c.	·0003	·001
	3		Freight on Stores		
			Total...	·0027	·007
			Total Heads, 6 and 7	·0027	·007
			Less Credits	·00004	·0001
		172	*Net Total, Other Charges*	·0027	·007
		173	*Total General Charges*	3·04	7·58

Earnings of the South Indian Railway Company	Rs.	38,67,302 6 3
Less amount received for working Pondicherry Railway Company's Line	"	17,373 7 10
Earnings of the Pondicherry Railway Company	Rs.	38,49,928 14 5
	"	28,339 13 11
Less amount received from the M. M. Railway for hire of Rolling stock	"	38,78,279 14 4
	"	2,427 7 9
Earnings of the M. M. Railway Company	"	38,75,852 6 7
	"	48,549 10 11
	Rs.	39,24,402 1 6

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(continued.)*—HALF-YEAR ENDED *30th June 1894.*

No. VIII.—Working Expenses.—*(contd.)*

TABLE F.

Steam Boat Service.

Reference to Revenue Account. Table and main-head.	Sub-head.	Progressive Number in Analysis.	DETAILS.	Per cent on Steam boat earnings.
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. Table and main-head.	Sub-head.	Progressive Number in Analysis.	DETAILS.	Per cent on total earnings.
				39,24,402
				Per cent.
IX (G) 1	...	174	*Law Charges—*	·02
			Compensation—	
2	1		For goods lost or damaged	·08
	2		" Personal injury	·001
	3		" Other claims	
		175	Total...	·08
3	...	176	*Rates and Taxes*	·12
			Payments to other Lines—	
4	1	...	Hire of Locomotives	
	2	...	" of Vehicles	
	3	...	Mileage of Foreign stock	·02
	4	...	Rent of stations, &c., jointly occupied	·15
		177	Total...	·17
5	...	...	*Contribution to Provident Fund*	·30
6 to 8	...	...	*Miscellaneous*	·06
			Total Heads 5 to 8	·36
			Less Credits	
		178	*Net Total Other Charges*	
		179	*Total Special and Miscellaneous Expenses*	·75

WILLIAM S. BETTS,

Agent.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

APPENDICES TO ANALYSIS OF WORKING.

HALF-YEAR ENDED *30th June* 1894.

APPENDIX I.

Working of Locomotives.

Reference to Revenue Account. Table & main head.	Sub-head.			Passenger.	Passenger.	Goods.	Tank.		Total.
		Locomotives. 1—Wheels coupled		...	4 Coupled Ts. Cs. Qs.	6 Coupled Ts. Cs. Qs.	4 Coupled. Ts. Cs. Qs.	6 Coupled Ts. Cs. Qs.	
		2—Weight on driving axle	S. I. R.	...	7 0 0	6 0 0	6 8 0	9 0 3	
			Nellore.	...	0 0 0	6 15 0	...	...	
			V. G.	...	6 15 0	7 16 0	...	...	
		3—Weight of Engine in steam	S. I. R.	...	20 0 0	18 0 0	20 0 0	27 17 1	
			Nellore	...	0 0 0	19 18 0	...	...	
			V. G.	...	21 8 0	22 5 0	...	...	
		4—Weight of Tender Loaded	S. I. R.	...	14 0 0	12 0 0	...	...	
			Nellore.	...	...	12 18 0	...	...	
			V. G.	...	...	13 16 0	...	...	
XII	5	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	...		8·721	21·392	·746		33·859
		3—Number of Locomotives laid by as spare	...						
		4—Ditto lent or hired out to other lines	...						
		5—Average number of Locomotives 1—(3+4)	...		65	131	8		204
		6—Total Mileage of Locomotives (5)	...		662,123	1,124,141	57,416		1,843,680
		7—Average miles run by a Locomotive of each class 6 ÷ 5	...		10,156	8,581	7,177		9,038
		Per diem.			50·28	47·41	39·65		49·93
		8—Weight of coal &c., used per engine mile	...	*To be separated if possible among the classes of Locomotives.*	lbs.	lbs.	lbs.		lbs.
		9—Weight of wood used per engine mile	...		21·03	36·87	17·97		29·86
				Passenger Trains.	Goods Trains.	Mixed Trains.			
		10—Average gross weight of trains hauled	*Tons*....	107·29	108·55	147·62			123·59
		11—Average speed between stations	*Miles per hour*...	20	13	16			
		12—Average through speed	*Miles per hour*...	16	9½	12			
		13—Average consumption of coal per engine mile.	*lbs*...	28·92	29·48	32·03			

Description of fuel consumed.		Rates of Conversion.	Quantity in terms of Khurhurlaree Coal.
Bengal Coal	Tons. 16,967·75	Tons. 1·01	Tons. 16,800
Bingareni	„ 2,477·93	„ 1·165	„ 2,127
Wood	„ 15,399·54	„ 2·41	„ 6,390

APPENDIX II.

SOUTH INDIAN RAILWAY.
(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)
APPENDICES TO ANALYSIS OF WORKING.—*(contd.)* HALF-YEAR ENDED *30th June 1894.*
APPENDIX II.
Working of Vehicles.

	DESCRIPTION OF VEHICLES.	Total number on the list at end of the half-year.	Average Weight in Tons. Of each description of Vehicle.	Average Weight in Tons. Of each group.	Average Carrying Capacity. Of each description of Vehicle.	Average Carrying Capacity. Of each group.	Average number laid by as spare.	Average number lent or hired out.	Average number working a—((+g)
		a.	b.	c.	d.	e.	f.	g.	h.
	COACHING STOCK—								
BOGIE SIX-WHEELED.	Governor's Saloon Carriage	1	10·00	10·24	22				1
	Inspection Carriage	1	10·00		22				1
	First Class Clemenson's	1	10·00		22				1
	Third Class do.	37	10·26		64				37
	Composite Carriage	6	11·61	10·96	25				6
	Third Class do.	19	10·76		64				19
FOUR-WHEELED.	First Class do.	19	5·32	5·22	12	31·42			19
	Composite do.	43	5·48		14·01				43
	Second Class do.	44	5·85		12				44
	Intermediate do.								
	Third Class do.	537	5·00						537
	Horse Boxes	30	5·24		1 17				30
	Carriage Trucks	5	2·87		3·00				5
	Luggage vans with brake	81	5·37		4·06				81
	Post Office Vans	12	6·22		4·50				12
	Post Office Vans with luggage compartment and brake	6	5·04						6
	Total	812	5·63	5·63					812
	GOODS STOCK—								
FOUR-WHEELED.	Covered Goods Wagons	1,813	4·09	3·88	6·03	5·97			1,813
	Cattle Trucks	6	4·21		2·00				6
	Open Wagons	504	3·23		6·00				504
	High sided Wagons	813	3·72		6·00				813
	Cotton Trucks	63	4·80		4·50				63
	Timber Trucks	33	3·15		5·12				33
	Miscellaneous	3	19·00		Nil				3
	Powder Vans	5	4·76		4·40				5
	Platform Wagons	4	2·76		6·00				4
	Water Tanks travelling	17	3·65	3·65	Nil.				17
SIX-WHEELED.	Tank Wagons for Carriage of Petroleum	6	8·06	7·70	8·96	9·67			6
	Cotton Trucks Clemenson's	14	7·86		10·00				14
	Ten Ton Boiler Truck	1	3·40		10·00				1
BOGIE	Iron low sided Bogie Wagons	20	6·15	6·90	14·00	13·66			20
	Timber Trucks Bogie	19	7·73		12·00				19
Brake Vans		52	6·77	6·77					52
	Total	3,372	3·94	3·98	5·98	5·98			3,372
	GRAND TOTAL	4,214							4,214

MILEAGE OF						
Foreign Vehicles on Home Line.		Home Vehicles on Home Line.		Home Vehicles on Foreign Lines.	Carrying Capacity hauled on Home Line.	Ton mileage of Vehicle dead weight hauled on Home Line.
Loaded.	Empty.	Loaded.	Empty.			
i.	k.	l.	m.	n.	o.	p.
		258	...	...	5,589	2,540
		5,211	...	...	114,642	52,110
		4,716	...	...	104,412	47,460
		564,620	...	...	35,135,680	8,793 001
		103,169	...	...	2,579,200	1,197,781
		352,4 9	...	...	24.474,176	4,114,721
		416,726	...	...	5,024.712	2,227,622
		604,965	...	...	9,020,025	3,315,208
		887,361	...	...	10,654,332	5,193,987
		8,952,082	...	...	281,271,416	45,800,027
522	522	1,861,916	21,710	...	7,511.665	10,581,468
		123,819	...	...	...	698,319
522	522	13,912,777	21.710	834	...	78,790,334
176,117	170,818	* 10,103,793	3,843,478	...	85,319,063	85,360,908
						10,038
		70,062	39,015	...	1,054,968	810,947
		22,075	29,791	...	752,541	357,895
		338,576	39,424	...	...	2,552,290
176,117	170,818	10,540,526	3,950,508	159,680	...	89,161,192
176,639	171,340	24,453,303	3,972,218	160,514	...	137,951,526

* Includes 155 miles run by Travelling Crane.

2,764 miles run by Travelling water tanks are not included in the mileage, columns l to o.

Average mileage per diem run by ... Coaching 76.992, Goods 81,973

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM—MUTUPET AND PONDICHERRY RAILWAYS.)

APPENDICES TO ANALYSIS OF WORKING.—(*contd.*)

HALF-YEAR ENDED *30th June 1894.*

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	746,971	8,871,120	4,248,623	
Second class	1,229,622	17,246,005	7,409,209	
Third or Intermediate class				
Fourth or Lowest class	9,928,391	342,912,046	57,666,498	
Total Passenger vehicles	11,904,984	369,029,171	67,323,730	
Other coaching vehicles	1,778,169	7,067,091	9,971,547	
Total paying coaching mileage	13,683,153		77,295,277	
Passenger brake-vans	120,454		689,640	
Total coaching mileage including brakes ...	13,803,607		77,984,917	
Goods—				
Loaded Vehicles	10,350,172	62,237,195	40,470,919	
Empty do.	4,083,902	24,720,243	16,030,625	
Total paying goods mileage	14,434,074	86,957,438	56,501,444	
Goods brake-vans	486,968		3,154,710	
Total goods mileage, including brakes	14,921,042	86,957,438	59,656,154	
Miscellaneous—				
Free Mileage for inspection, &c...	48,951		310,455	
GRAND TOTAL ...	28,773,560		137,951,526	

SOUTH INDIAN RAILWAY.

APPENDICES TO ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *30th June 1894.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.				STEEL.				Total Iron and Steel.
		Double headed weighing 66 lbs. per yard.	Flat footed weighing 40·3 lbs. per yard.	Flat footed weighing 35·5 lbs. per yard.	Total	Steel, weighing 41 lbs. per yard.	Steel, weighing 80 lbs. per yard.	Steel, weighing 86 lbs. per yard.	Total.	
1	Miles of rail in way, including sidings	259·29	340·12	2·60	631·00	836·34	855·90	1·56	1,693·80	2,324·80
2	Rails removed ... Miles...	1·73	22·13	...	23·86	9·94	·13	...	10·07	33·93
3	New Rails laid ... Miles...	1·59	·61	...	2·20	6·02	31·21	...	37·23	39·43

Total mileage of Iron and steel Rails laid ... 39·43
do. do. removed ... 33·93
Increase ... 5·50

Increase is due to extension of sidings.

MAYAVARAM-MUTUPET RAILWAY.

APPENDICES TO ANALYSIS OF WORKING.—(*Continued.*)

HALF-YEAR ENDED *30th June 1894.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.				STEEL.				Total Iron and Steel.
		Double headed weighing 66 lbs. per yard.	Flat footed weighing 40·3 lbs. per yard.	Flat footed weighing 35·5 lbs. per yard.	Total.	Steel, weighing 41 lbs. per yard.	Steel, weighing 80 lbs. per yard.	Steel, weighing 86 lbs. per yard.	Total.	
1	Miles of rail in way, including sidings	...	117·62	...	117·62	...	...	...	...	117·62
2	Rails removed ... Miles...	...	·32	...	·32	...	...	...	...	·32
3	New Rails laid ... Miles...	...	·196	...	·196	·136	...	...	·136	·32

SOUTH INDIAN RAILWAY.

APPENDICES TO ANALYSIS OF WORKING.—(*concluded.*)

HALF-YEAR ENDED *30th June 1894.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	Wood. Transverse. Creosoted Pine 9' × 10" × 5"	Wood. Transverse. Creosoted Pyinkado round 6' × 10" × 5"	Wood. Transverse. Teak of sizes.	Wood. Transverse. Pingadoo 6'—6" × 9" × 4½"	Wood. Transverse. Total.	Wood. Longitudinal.	Iron. Pot sleepers Weighing 80 lbs.	Iron. Pot sleepers Weighing 70 lbs.	Iron. Pot sleepers Weighing 67 lbs.	Iron. Total.	Iron. D. and O. Cast iron sleepers.	Steel, Transverse Sleepers.
		No.	No.	No.	No.	No.	Lnl. ft.	Pairs.	Pairs.	Pairs.	Pairs.	No.	No.
1	Number of Sleepers in way, including sidings at the commencement of the half-year. ...	268	270,117	68,795	84,430	423,660	103,603	216,920	810,330	10,692	1,037,962	92,133	747,269
2	Average age of Sleepers in way at the end of the half-year... ...Years...	31·85	13·79	15·64	4·20	13·01	8·71	24·59	5·21	9·49	9·59	6·62	3·04
3	Number removed ...	...	24,906	1,003	7,801	33,713	533	257	72	23	352	1,015	901
4	Number laid ...	...	14,523	55	637	15,435	833	437	22,330	23	22,810	340	135
5	Percentage of removals on total of each class (1) ...	...	9·22	1·47	9·23	7·96	·80	·12	·01	·21	·03	1·10	·12
6	Number of Sleepers in way, including sidings at the end of the half-year ...	268	259,734	67,842	77,536	405,380	103,603	217,120	832,608	10,692	1,060,420	91,460	746,502

Total number of Wooden, Iron and Steel sleepers laid ... 38,720
Total number do. removed ... 35,983
Increase ... 2,737

Increase is due to extension of sidings.

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MAYAVARAM—MUTUPET RAILWAY.

APPENDICES TO ANALYSIS OF WORKING.—*concluded.*

HALF-YEAR ENDED *30th June 1894.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	Wood. Transverse. Creosoted Pine 9' × 10" × 5"	Wood. Transverse. Creosoted Pyinkado round 6' × 10" × 5"	Wood. Transverse. Teak of sizes.	Wood. Transverse. Pingadoo 6'—6" × 9" × 4½"	Wood. Transverse. Total.	Wood. Longitudinal.	Iron. Pot sleepers Weighing 80 lbs.	Iron. Pot sleepers Weighing 70 lbs.	Iron. Pot sleepers Weighing 67 lbs.	Iron. Total.	Iron. D. and O. Cast iron sleepers.	Steel Transverse Sleepers.
		No.	No.	No.	No.	No.	Lnl. ft.	Pairs.	Pairs.	Pairs.	Pairs.	No.	No.
1	Number of Sleepers in way, including sidings at the commencement of the half-year ...	...	...	...	...	...	...	...	...	...	...	...	...
2	Average age of Sleepers in way at the end of the half-year... ...Years...	...	...	·25	·25	·25	·25	...	...	...	...	...	...
3	Number removed ...	...	...	...	...	...	...	...	...	...	...	...	...
4	Number laid ...	...	...	1,251	117,890	119,141	2,333	...	...	...	...	...	...
5	Percentage of removals on total of each class (1) ...	...	...	...	...	...	...	...	...	...	...	...	...
6	Number of Sleepers in way, including sidings at the end of the half-year ...	...	...	1,251	117,890	119,141	2,333	...	...	...	...	...	...

23

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Letter from the Agent S. I. R. G. O. No 1028 of 15th Oct 1874

Ordered that nine copies of the Consolidated working Analysis of the S. I. Railway for the half year ended the 30th June 1874, be forwarded to the Director General of Railways and to the Secretary of State for India.

DESPATCHED
21 OCT. 91
21 OCT. 91

To The Agent S. I. R.
" Examiner Rs and A.

G. O. No 554 R dated 17 Oct.
Forwarded

G. O. No 20/553 R dated Oct.
To The Rt Hon'ble Secretary of State for India

Sir, We have the honour to forward herewith

Rendings of the Sirt N:553R
9/17th Oct 1894 enclosing
therein the ~~enclosed~~
Analysis of water of the
Indrain including the Mayamara
Quantity of Rainings for
the half year ended the
30th June 1894.

Noted.
17/10/94

DESPATCHED.
31 OCT. 94