Public Works (1895) Department.

RAILWAY BRANCH.

G.O., No. 624-5R

DATED 28th September

[Despatch Abstract.]

Analysis of working S. I. Railway (including the Mayuram-Nagapatam and Pondicherry Railways). Ordered that Copies of the — for the half-year ended the 30th June 1895 be forwarded to the Director General of Railways & the Secretary of State.

Ditto — Rly Board: enclosing the — for the half year ended the 30 June 1875.

Forwarding Proc: enclosing the analysis of working S. I. Railway (including the Mayuram-Nagapatam and Pondicherry Railways) for the half-year ended the 30th June 1895.

[E.W.A. Secretariat]

Initial

BACK PAPERS.

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

FURTHER PAPERS.

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

No. 624 R., 28TH SEPTEMBER 1895.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper:—

From the Agent, South Indian Railway, No. 866, dated 24th September 1895.

ABSTRACT.—Forwarding 30 copies of the Analysis of working of the South Indian, Máyavaram-Muttupet and Pondicherry Railways, for the half-year ended 30th June 1895.

ORDER—No. 624 R., dated 28th September 1895.

Ordered that nine copies of the Analysis of working South Indian Railway (including the Máyavaram-Muttupet and Pondicherry Railways) for the half-year ended the 30th June 1895, be forwarded to the Director-General of Railways and the Secretary of State.

[Here enter No. 625 R., dated 28th September 1895.]

(True Extract.)

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

To the Agent, South Indian Railway.
" Examiner, Railway Accounts, Madras.

ENDORSEMENT—No. 625 R., dated 28th September 1895.

Forwarded.

(By order.)

Joint Secy. to Govt., P.W.D.,
Railway Branch.

To the Secretary to the Government of India,
Public Works Department.

Ed. T. K. Narayana Aiyangar.]
Spare Copies.

RAILWAY.

Govt. of {1895} Madras.

PUBLIC WORKS.

Dated September, 28th.

Read. *Encl.*

G.O. Nos. 624, 625 R., 28th Sept. 1895.

SEPTEMBER.

Analysis of working South Indian Railway (including the Mayavaram-Muttupet and Pondicherry Railways)

Forwarding Proceedings embodying the — for the half-year ended the 30th June 1895.

No. $\frac{19}{674}$ R., 28TH SEPTEMBER 1895.

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONOURABLE THE SECRETARY OF STATE FOR INDIA.

MY LORD,

We have the honour to forward, herewith, a copy of our Proceedings No. 624 R., dated 28th September 1895, embodying the Analysis of working South Indian Railway (including the Máyavaram-Muttupet and Pondicherry Railways) for the half-year ended the 30th June 1895.

We have the honour to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) WENLOCK.

(„) H. W. BLISS.

(„) J. GROSE.

OOTACAMUND,
28th September 1895.

Ead. T. K. Narayana Aiyangar.

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. $\frac{19}{621}$ R, dated 28th Sept. 1895.

FORWARDING Proceedings embodying the Analysis of working South Indian Railway (including the Máyavaram-Muttupet and Pondicherry Railways) for the half-year ended the 30th June 1895.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING

FOR THE

Half-Year ended 30th June 1895.

TRICHINOPOLY:—BRANCH "ECLIPSE" PRESS.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING

FOR THE HALF-YEAR ENDED *30th June 1895.*

Progressive Number.	Headings.			Remarks
	No. 1.			
	DESCRIPTION OF RAILWAY WORKED.		Ft. In.	
1	Gauge of Railway	...	3 3½	
2	Mean mileage worked	... *Miles.*	1,103·38	
3	Number of stations	... *No.*	166	
4	Total length of the following gradients	...		
	(*a*) 1/∞ and less	... *Miles.*		
	(*b*) 1/∞ to 1/80	... "	119·39	
	(*c*) 1/∞ to 1/60	... "	207·31	
	(*d*) 1/60 to 1/45	... "	81·80	
	(*e*) 1/80 to 1/66	... "		
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.*	2·67	
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.*	69,635·88	
9	Total earnings per mile open per week	... "	159·68	
10	Total working expenses per-mile per week	... "	86·04	
11	Total earnings per train-mile	... "	2·70	
12	Total working expenses per train-mile	... "	1·46	
13	Net earnings per train-mile	... "	1·24	
14	Cost per 1,000 gross ton-miles moved (freight and dead weight)	... "	8·93	
15	Percentage of total working expenses upon total earnings	... *Per cent.*	53·89	
16	Percentage of total working expenses upon total earnings, excluding from both sides of the account the charges for carriage of Revenue Stores	... "	53·04	
	(*Inclusive of Steam Boat Service.*)			
17	Percentage of total working expenses on total earnings (for details see table No. VII.)	"	53·89	
	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.*	24,24,393	
	Proportions, *dividing expenditure in ratio of gross ton mileage (freight and dead load)*...		11,36,619	
19	Coaching	... "	12,87,764	
20	Goods	... "		

Capital outlay of the Pondicherry Railway is Rs. 5,03,513.

SOUTH INDIAN RAILWAY.

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

ANALYSIS OF WORKING—(*continued.*)

HALF-YEAR ENDED *30th June 1895.*

Progressive Number.	HEADINGS.			REMARKS.
	No. V.			
	COACHING TRAFFIC.			
	GROSS RECEIPTS AND TRAIN-MILEAGE—			
21	Receipts from coaching Traffic ...	*Rs.*	24,38,813	
22	Coaching Train miles run ...	*No.*	794,318	
23	Average coaching receipts per train-mile ...	*Rs.*	3·07	
	UNITS AND UNIT MILEAGE—			
	Number of units carried one mile.			
24	1st class ...	*Unit Miles.*	593,426	
25	2nd ,, ...	,,	4,548,225	
26	3rd or Intermediate class ...	,,		
27	4th or Lowest class ...	,,	209,851,076	
28	Total Passenger unit mileage ...	,,	214,992,727	
29	Other coaching traffic ...	*Ton Miles.*	447,541	
	Average sum received for carrying a unit one mile.			
30	1st class ...	*Pies.*	11·82	
31	2nd ,, ...	,,	3·87	
32	3rd or Intermediate class ...	,,		
33	4th or lowest class ...	,,	2·01	
34	Average for all classes ...	,,	2·07	
35	Other coaching traffic per ton mile ...	,,	53·79	
	Average number of units in a train.			
36	1st class ...	*No.*	·75	
37	2nd ,, ...	,,	5·72	
38	3rd or Intermediate class ...	,,		
39	4th or Lowest class ...	,,	264·18	
40	Total passenger units ...	,,	270·65	
41	Other coaching traffic ...	*Tons.*	·56	
	VEHICLES AND VEHICLE MILEAGE—			
	Number of Coaching Vehicles hauled one mile.			
42	1st class ...	*Vehicle Miles.*	740,495	
43	2nd ,, ...	,,	1,182,285	
44	3rd or Intermediate class ...	,,		
45	4th or Lowest class ...	,,	9,914,782	
46	Other Vehicles ...	,,	1,862,254	
47	Brake-Vans ...	,,	162,303	
48	Total ...	,,	13,862,109	
	Average number of Vehicles in a coaching train.			
49	1st Class ...	*No.*	·93	
50	2nd ,, ...	,,	1·49	
51	3rd or Intermediate class ...	,,		
52	4th or Lowest class ...	,,	12·48	
53	Other Vehicles ...	,,	2·35	
54	Brake-vans ...	,,	·20	
55	Total ...	,,	17·45	
	Average earnings per coaching vehicle per mile.			
56	1st class ...	*Pies.*	9·46	
57	2nd ,, ...	,,	14·90	
58	3rd or Intermediate class ...	,,		
59	4th or Lowest class ...	,,	42·82	
60	Other vehicles ...	,,	12·93	
	Carrying capacity hauled one mile (excluding brakes)			
61	1st class ...	*Seats.*	8,150,458	
62	2nd ,, ...	,,	17,970,600	
63	3rd or Intermediate class ...	,,		
64	4th or Lowest class ...	,,	372,618,035	
65	Other vehicles ...	*Tons.*	7,418,770	
	Percentage of freight upon capacity hauled.			
66	1st class ...	*Per cent.*	7·28	
67	2nd ,, ...	,,	25·30	
68	3rd or Intermediate class ...	,,		
69	4th or Lowest class ...	,,	56·32	
70	Other vehicles ...	,,	6·03	

SOUTH INDIAN RAILWAY.

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

ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *30th June 1895.*

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.*	13,461,806	
72	Dead-weight	,,	113,758,123	
73	Total	,,	127,219,929	
	Average weight of a coaching train.			
74	Freight	*Tons.*	16·95	
75	Dead-weight	,,	143·21	
76	Total	,,	160·16	
	COST OF WORKING AND PROFITS—			
77	Average cost of hauling a coaching train one mile	*Rs.*	1·43	
78	Average cost of hauling a coaching vehicle with its load one mile	*Pies.*	15·93	
	Average cost of hauling a coaching unit one mile.			
79	Per passenger unit	,,	·90	
80	Other traffic per ton	,,	55·49	
81	Average profit on working a coaching train one mile ...	*Rs.*	1·64	
	Average profit on working a coaching vehicle one mile.			
82	1st class	*Pies.*	*6·47*	*Loss.*
83	2nd ,,	,,	*1·03*	*do.*
84	3rd or Intermediate class	,,		
85	4th or Lowest class	,,	26·39	
86	Other vehicles	,,	*3·00*	*Loss.*
	Average profit on working a coaching unit one mile.			
87	Per passenger unit	*Pies.*	1·17	
88	Other traffic per ton	,,	*1·70*	*Loss.*

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(continued.)*

HALF-YEAR ENDED *30th June 1895.*

Progressive Number.	Headings.			Remarks.
	No. VI.			
	GOODS TRAFFIC.			
	Gross Receipts and Train-Mileage—			
89	Receipts from Goods Traffic	*Rs.*	23,97,987	
90	Goods Train-miles run	*No.*	899,643	
91	Average goods receipts per train-mile	*Rs.*	2·33	
	Units and Unit Mileage—			
92	Tons of Goods carried one mile	*Ton Miles.*	49,066,111	
93	Average sum received for carrying a ton one mile	*Pice.*	8·21	
94	Average number of tons in a train	*Tons.*	54·54	
	Vehicles and Vehicle Mileage—			
	Number of Goods vehicles hauled one mile.			
95	Loaded	*Vehicle Miles.*	11,534,882	
96	Empty	,,	4,144,197	
97	Brake-vans	,,	549,655	
98	Total	,,	16,228,734	
	Average number of vehicles in a goods train			
99	Freight vehicles	*No.*	17·43	
100	Brake vans	,,	·61	
101	Total	,,	18·04	
102	Average earnings per goods vehicle per mile (excluding brakes)	*Pice.*	25·69	
103	Carrying capacity hauled one mile (excluding brakes)	*Tons.*	94,721,850	
104	Percentage of freight upon capacity hauled	*Per cent.*	51·80	
105	Average load of a goods vehicle (including both loaded and empty)	*Tons.*	3·13	
106	Average load of a loaded goods vehicle	,,	4·25	
	Weight of Trains and Ton Mileage—			
	Gross ton mileage of all goods trains.			
107	Freight	*Ton Miles.*	49,066,111	
108	Dead-weight	,,	95,071,304	
109	Total	,,	144,137,415	
	Average weight of a goods train			
110	Freight	*Tons.*	54·54	
111	Dead-weight	,,	105·68	
112	Total	,,	160·22	
	Cost of Working and Profits—			
113	Average cost of hauling a goods train one mile	*Rs.*	1·43	
114	Average cost of hauling a goods vehicle with its load one mile	*Pice.*	15·77	
115	Average cost of hauling a goods unit (viz. one ton) one mile	,,	5·01	
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	,,	9·15	
116	Average profit on working a goods train one mile	*Rs.*	·90	
117	Average profit on working a goods vehicle with its load one mile	*Pice.*	9·92	
118	Average profit on working a goods unit (viz. one ton) one mile	,,	3·17	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(continued.)*

HALF-YEAR ENDED *30th June 1895.*

Progressive Number.	Headings.			Remarks.
	No. VII.			
	DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.			
	Percentage to Total Earnings—			
119	Coaching Traffic	*Per cent.*	53·24	
120	Goods Traffic	,,	45·80	
121	Sundries, including Telegraph	,,	·96	
122	Steam-boat Earnings	,,		
	Total Earnings	,,	100·00	
	Percentage of Working Expenses upon Total Earnings—			
123	Maintenance	*Per cent.*	11·56	
124	Locomotive Expenses	,,	19·97	
125	Carriage and Wagon Expenses	,,	6·76	
126	Traffic Expenses	,,	8·11	
127	General Charges	,,	6·74	
128	Miscellaneous Charges	,,	·75	
129	Steam-boat Expenses	,,		
130	Total Working Expenses	,,	53·89	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—(*contd.*)—HALF-YEAR ENDED *30th June 1895.*

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. 1,103·38	*b.* Per mile of track including Sidings. 1,242·19	*c.* Per total Train-mile. 1,693,991	*d.* Per 1,000 gross ton miles. 271,357,344
IX(A)	...		*General Superintendence*—	Rs.	Rs.	As.	Rs.
1	1&2		Engineers' Salaries and allowances ...	50·98	45·29	·53	·21
	3to5		Subordinate Superintendents' salaries and allowances, including overtime	35·88	31·86	·37	·15
	6		Office expenses	32·69	29·04	·31	·13
		131	Total	119·55	106·19	1·24	·49
2	1		*Maintenance and Renewal of Permanent Way*— Wages	110·52	98·17	1·15	·45
	2		Materials	174·23	154·76	1·82	·71
		132	Total	284·75	252·93	2·97	1·16
3	1		*Repairs of Bridges, &c.*— —*Wages and Materials*— Bridges and tunnels	33·84	30·06	·35	·14
	2		Miscellaneous	6·24	5·54	·07	·02
		133	Total	40·08	35·60	·42	·16
3(A)		134	*Conservancy of Rivers*—				
4	1		*Repairs of Stations and Buildings* —*Wages and Materials*— Repairs of all, except staff quarters	20·40	18·12	·21	·08
	2		Repairs of staff quarters	5·24	4·66	·06	·02
		135	Total	25·64	22·78	·27	·10
5	1		*Maintenance by Contract*— Amount paid to Contractors				
	2		Materials supplied by the Railway				
			Total				
6			*New Minor Works*—	3·74	3·32	·04	·01
7	1		*Unclassified Expenditure*— Plantations	1·09	·96	·01	·01
	2		Tools and Plant	12·43	11·04	·13	·05
	3		Loss by exchange				
	4		Loss on stores, &c.	7·84	6·97	·08	·03
	5		Freight on Stores	25·15	22·34	·26	·10
			Total	46·51	41·31	·48	·19
			Total Heads, 5, 6 and 7	50·25	44·63	·52	·20
			Less Credits	*40·14*	*35·66*	·42	·16
		136	*Net Total, Other Charges*	10·11	8·97	·10	·04
		137	*Total Maintenance*	480·13	426·47	5·00	1·95

In dose Department.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—(*contd.*)—HALF-YEAR ENDED *30th June 1895.*

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. 1,693,991	*b.* Per Engine mile. 1,998,784	*c.* Per 1,000 gross ton-miles. 271,357,344
			General Superintendence—	As.	As.	Rs.
IX (B) 1	1 & 2		Salaries of Superintendents and Assistants, including allowances ...	·14	·12	·06
	3 to 5		Ditto of Subordinate ditto including ditto ...	·26	·23	·10
	6		Office expenses ...	·18	·15	·07
		138	Total .	·58	·50	·23
			Running Expenses—			
2	1 & 2		Wages of Drivers and firemen, including overtime ...	1·29	1·09	·51
	3		Fuelling, cleaning and looking after engines ...	·21	·18	·08
	4		Contingent expenses ...	·01	·01	·003
		139	Total...	1·51	1·28	·59
3	1 to 4		*Fuel.*—(In terms of Khurhurbarce coal) Average quantity consumed	lbs. 28·90	lbs. 24·49	lbs. 180·40
			Average price per ton Rs.*16·10	As.	As.	Rs.
		140	Do. cost	3·74	3·17	1·46
4		141	*Water* —Including wages and Stores	·15	·13	·06
5		142	*Oil, tallow and other Stores*	·31	·26	·12
			Maintenance and Renewals—			
6	1 & 2		Wages including overtime	1·01	·86	·40
	3		Materials	·86	·72	·33
	•	143	Total...	1·87	1·58	·73
6 A.	...	...	Machinery	·02	·02	·001
7			*New Minor works*			
8			*Payments to other lines*	·0003	·0002	·0001
			Unclassified Expenditure—			
9	1		Loss by exchange			
	2		Loss on Stores, &c.	·01	·01	·005
	3		Freight on Stores	·48	·40	·19
			Total ..	·49	·41	·19
			Total Heads 7, 8 and 9	·49	·41	·19
			Less Credits	*·03*	*·03*	*·01*
		144	*Net Total, other Charges*	·46	·38	·18
		145	*Total, Locomotive Expenses*	8·04	7·32	3·37

• This is in terms of Khurhurbarce but the average price on actual quantity as per Revenue account is Rs. 14·55, per ton.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *30th June 1895.*

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. 1,693,991	b. Per 1,000 Vehicle miles run by loaded Vehicles. 30,159,195
					As.	Rs.
			General Superintendence—			
IX (C) 1	1 & 2		Salaries of Superintendents, including allowances		·07	·25
	3 to 5		Ditto of Subordinate ditto, including ditto		·13	·46
	6		Office expenses		·09	·31
		146		Total...	·29	1·02
			Repairs and Renewals of Vehicles and Machinery—			
2	1 to 3		Coaching Vehicles... Wages including overtime		·31	2·38
			Coaching Vehicles... Materials		·73	5·50
		147		Total .	1·04	7·88
	1 to 3		Goods Vehicles ... Wages including overtime		·28	1·85
			Goods Vehicles ... Materials		1·07	7·01
		148		Total...	1·35	8·86
2A			Machinery		·0002	·001
			Cleaning and Oiling—			
3	1		Labour, including wages of Oilers, &c		·18	·64
	2		Stores		·04	·14
		149		Total...	·22	·78
4			*New Minor Works—*		·0003	·001
			Unclassified Expenditure—			
5	1		Loss by exchange			
	2		Loss on Stores, &c.		·01	·03
	3		Freight on Stores		·01	·03
				Total...	·02	·06
			Total Heads, 4 and 5...		·02	·06
			Less Credits		·0002	·001
		150	*Net Total, Other Charges*		·02	·06
		151	*Total, Carriage and Wagon Expenses*		2·32	10·26

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *30th June 1895.*

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. 1,693,991	b. Per cent of Traffic earnings. Abstracts H. and I. 45,36,800
				As.	Per cent.
			General Superintendence—		
IX (D) 1	(a) 1 & 3		Traffic Manager, Assistants, &c., including travelling allowances.	·39	·69
	(a) 2 & 4		Office Establishment and contingencies	·14	·32
		152	Total ...	·52	1·21
	(b)	153	*Station Staff*	1·56	3·63
	(c)	154	*Train Staff*	·33	·77
2	1 to 3	155	*Fuel, Lighting, Water and General Stores*	·54	1·25
3		156	*Clothing*	·004	·01
4		157	*Printing Stationery and Tickets*	·48	1·12
5		158	*Charges for delivery and collection of goods, &c.*	·0001	·0002
6		159	*Miscellaneous Expenses*	·02	·05
			Payments to other Lines—		
7	1	160	Expenses at joint Stations	·08	·19
			Unclassified Expenditure—		
8	1		Loss by Exchange		
	2		Loss on Stores, &c.	·005	·01
	3		Freight on Stores	·027	·06
			Total Head, 8 ...	·032	·07
			Less Credits	·055	·12
		161	*Net Total, Other Charges*	·023	·05
		162	*Total Traffic Expenses*	3·51	8·18

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING—*(contd.)* HALF-YEAR ENDED *30th June 1895.*

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.
				1,693,991	45,80,835
				As.	Per cent.
IX (E) 1	1 to 4	163	*Home Expenditure*	·49	1·13
1 a			*Government Supervision Audit and Control*	·39	·91
2	1	164	*Indian Management*— Agent's Office, including travelling allowances and contingencies	·20	·46
	2		Auditor's office, ditto ditto ...		
	3		Accounts office, ditto ditto	·65	1·49
	4		Paymaster's office ditto ditto ...		
		165	Total 2 to 4	·65	1·49
	5	166	Store Department, ditto ditto	·14	·32
	6	167	Medical Department, ditto ditto	·12	·28
	7		Rents	·001	·002
	8 to 10		Miscellaneous expenses, including printing stationery and medicine	·18	·41
		168	Total 7 to 10...	·19	·41
3	1 to 3	169	*Police*	·15	·35
4		170	*Advertising*	·02	·04
			Electric Telegraph—		
5	1 to 4		Salaries, &c., ...	·21	·50
	5		Maintenance (Wages and Stores)	·03	·07
	6		Government Telegraph Department, for rent, maintenance and inspection	·33	·77
		171	Total...	·57	1·34
6			*Clearing Accounts, with other lines*—		
			Unclassified Expenditure—		
7	1		Loss by exchange		
	2		Loss on Stores, &c.	·014	·31
	3		Freight on Stores	·0003	·001
			Total...	·0043	·011
			Total Heads, 6 and 7	·0043	·011
			Less Credits	·0002	·001
		172	*Net Total, Other Charges*	·0041	·01
		173	*Total General Charges*	2·91	6·74

Earnings of the South Indian Railway Company	Rs.	44,30,838	4 4
Earnings of the Pondicherry Railway Company	"	32,495	13 0
Earnings of the M. M. Railway Company	"	1,17,490	7 2
	Rs.	45,80,834	8 6

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

ANALYSIS OF WORKING.—*(continued.)*—HALF-YEAR ENDED *30th June 1895.*

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.
				Per cent.
IX (F)	...		*Working Expenses*—	
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.
				45,80,835
				Per cent.
IX (G) 1	...	174	*Law Charges*—	·01
			Compensation—	
2	1		For goods lost or damaged	·05
	2		" Personal injury	·001
	3		" Other claims	
		175	Total...	·051
3	...	176	*Rates and Taxes*	·114
			Payments to other Lines—	
4	1	...	Hire of Locomotives	
	2	...	" of Vehicles	
	3	...	Mileage of foreign stock	·001
	4	...	Rent of stations, &c., jointly occupied	·12
		177	Total...	·121
5	...	...	*Contribution to Provident Fund*	·272
6 to 8	...	...	*Miscellaneous*	·053
			Total Heads 5 to 8	·324
			Less Credits	
		178	*Net Total Other Charges*	·324
		179	*Total Special and Miscellaneous Expenses*	·63

DAVID LOGAN,

Ag. Agent.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET AND PONDICHERRY RAILWAYS.)

APPENDICES TO ANALYSIS OF WORKING.

HALF-YEAR ENDED *30th June* 1895.

APPENDIX I.

Working of Locomotives.

Reference to Revenue Account. Table & main head	Sub-head.			Passenger.	Passenger.	Goods.	Tank.		Total.
					4 Coupled	6 Coupled	4 Coupled.	6 Coupled.	
					Ts. Cs. Qs.	Ts. Cs. Qs.	Ts. Cs. Qs.	Ts. Cs. Qs.	
		Locomotives. 1—Wheels coupled	...	...					
		2—Weight on driving axle	S. I. R.	...	6 13 0	6 9 0	7 19 0	6 8 0	
			O. class.	...	8 6 2	0 0 0	...	...	
			Nellore	...	0 0 0	6 15 0	...	...	
			V. G.	...	6 15 0	7 16 0	...	...	
		3—Weight of Engine in steam	S. I. R.	...	21 9 0	20 14 0	26 4 0	20 0 0	
			O. class.	...	23 14 0	0 0 0	...	...	
			Nellore	...	0 0 0	19 18 0	...	...	
			V. G.	...	21 9 0	22 6 0	...	...	
		4—Weight of Tender Loaded	S. I. R.	...	14 0 0	14 0 0	...	...	
			O. class.	...	15 10 0	0 0 0	...	...	
			Nellore.	...	0 0 0	12 18 0	...	...	
			V. G.	...	14 0 0	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	..		13·929	22·492	1·923		38·343
		3—Number of Locomotives laid by as spare	...						
		4—Ditto lent or hired out to other lines	...			1			1
		5—Average number of Locomotives 1—(3 + 4)	...		65	130	8		203
		6—Total Mileage of Locomotives (5)	...		745,697	1,200,951	52,106		1,998,754
		7—Average miles run by a Locomotive of each class 6 ÷ 5	...		11,472	9,238	6,513		9,846
		Per diem.			63·38	61·04	35·98		54·40
		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	...		22·39	35·79	21·90		*21·49

	Passenger Trains.	Goods Trains.	Mixed Trains.		
10—Average gross weight of trains hauled *Tons*....	105·53	113·24	143·72		126·46
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*...	23·09	28·40	30·73		

Description of fuel consumed.			Rates of Conversion. Tons.	Quantity in terms of Khurburlaree Coal. Tons.
New Beerbhoom Company's Durrea Coal	Tons.	10,726·35	1·30	8,251·04
Singareni	"	8,677·49	1·49	5,823·82
Khurburlaree Coal	"	371·74	1	371·74
Contractor's Firewood	"	19,431·64	2·94	6,269·27
Forest Department Firewood	"	2,434·85	2·14	1,137·73

* Consumption of fuel in terms of Khurburlaree coal.

APPENDIX II.

SOUTH INDIAN
(INCLUDING MAYAVARAM
APPENDICES TO ANALYSIS
APPEN
Working of

DESCRIPTION OF VEHICLES.		Total number on the list at end of the half-year.	Average Weight in Tons.		Average Carrying Capacity.		Average number laid by as spare.	Average number lent or hired out.	Average number working a—(f+g)
			Of each description of Vehicle.	Of each group.	Of each description of Vehicle.	Of each group.			
	COACHING STOCK—	a	b.	c.	d.	e.	f.	g.	h.
BOGIE	Governor's Saloon Carriage	1	11·23		22				1
	Inspection Carriage	1	10·02		22				1
	First Class Clemenson's	1	12·34	11·68	22				1
	Third Class do.	37	10·76		64				37
	Composite Carriage	20	11·61		25				20
Six-wheeled Third Class Carriage		37	10·26	10·26	64				37
FOUR-WHEELED.	First Class do.	20	5·38		9·62				20
	Composite do.	44	5·75		13·18				44
	Second Class do.	44	5·85		12				44
	Intermediate do.								
	Third Class do.	637	5·15	5·31	31·37				637
	Horse Boxes	30	5·23		1·17				30
	Carriage Trucks	5	3·16		3·00				5
	Luggage vans with brake	81	5·50		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	876	5·91	5·91	...				876
	GOODS STOCK—								
FOUR-WHEELED.	Covered Goods Wagons	1,613	4·09		6·04				1,613
	Cattle Trucks	6	4·21		2·00				6
	Open Wagons	504	3·23		5·93				504
	High sided Wagons	813	3·72		6·00				813
	Cotton Trucks	63	4·80	3·88	4·50	5·97	...	...	63
	Timber Trucks	33	3·15		5·12				33
	Miscellaneous	3	19·00		Nil.				3
	Powder Vans	5	4·70		4·40				5
	Platform Wagons	4	2·70		6·00				4
	Water Tanks travelling	17	3·05	3·05	Nil.				17
SIX-WHEELED.	Tank Wagons for Carriage of Petroleum	6	8·06		8·80			1	5
	Cotton Trucks Clemenson's	14	7·66	7·70	10·00	9·67	...	...	14
	Ten Ton Boiler Truck	1	3·40		10·00				1
BOGIE	Iron low sided Bogie Wagons	20	6·15	6·90	14·00	13·08	...	...	20
	Timber Trucks Bogie	18	7·73		12·00				18
Brake Vans		52	6·77	6·77	...	...	...	...	52
	Total	3,372	3·98	3·98	6·07	6·07	...	1	3,371
	GRAND TOTAL	4,248	...	...	...	...	...	1	4,247

RAILWAY.
MUTUPET AND PONDICHERRY RAILWAYS.)
OF WORKING.—*(contd.)* HALF-YEAR ENDED *30th June 1895.*
DIX II.
Vehicles.

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.
		...	...	...	...	...
		7,015	...	...	154,330	70,290
		8,714	...	...	191,708	107,182
		1,204,600	...	...	77,094,400	12,961,496
		453,420	...	...	11,460,500	5,322,256
		627,057	...	...	40,131,648	6,433,605
		208,739	...	...	2,874,350	1,607,485
		621,402	...	...	8,190,078	3,573,062
350		639,196	...	...	7,674,552	3,741,344
1,006		8,022,208	...	...	251,688,223	41,319,552
175	175	1,940,553	28,628	...	8,016,183	11,676,873
		157,296	...	...	...	836,642
1,531	175	14,023,460	28,628	3,714	...	87,699,787
87,992	83,669	* 11,321,804	3,967,729	...	92,303,031	89,930,092
						1,413
		102,472	59,150	...	1,562,883	1,244,489
		46,020	33,649	...	1,039,680	849,716
		371,291	88,410	...	...	2,793,918
87,992	83,669	11,847,577	4,098,938	184,878	...	94,820,228
89,523	83,844	25,873,037	4,127,566	188,592	...	182,220,015

347 miles run by Travelling water tanks are not included in the mileage, columns i to o.
* Includes 462 miles run by travelling crane.

Average mileage per diem run by — Coaching Vehicles 77,656; Goods ditto 89,051

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM—MUTUPET AND PONDICHERRY RAILWAYS.)

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

HALF-YEAR ENDED *30th June 1895.*

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	740,485	8,150,458	8,077,768	
Second class	1,182,285	17,976,899	8,316,399	
Third or Intermediate class				
Fourth or Lowest class	9,914,782	372,615,935	61,349,192	
Total Passenger vehicles	11,837,552	398,732,292	71,743,359	
Other coaching vehicles	1,862,254	7,418,770	10,821,258	
Total paying coaching mileage	13,699,806		82,564,617	
Passenger brake-vans	162,303		921,200	
Total coaching mileage including brakes ...	13,862,109		86,486,017	
Goods—				
Loaded Vehicles	11,331,532	69,331,444	45,259,207	
Empty do.	4,141,197	25,190,416	16,372,733	
Total paying goods mileage	15,679,079	94,721,850	61,631,990	
Goods brake-vans	549,655		3,583,266	
Total goods mileage, including brakes	16,228,734	94,721,850	65,215,226	
Miscellaneous—				
Free Mileage for inspection, &c....	83,127		819,772	
GRAND TOTAL ...	30,173,970		152,520,015	

SOUTH INDIAN RAILWAY.

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

HALF-YEAR ENDED *30th June 1895.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.				STEEL.				
		Double headed weighing 68 lbs. per yard.	Flat footed weighing 40 lbs. per yard.	Flat footed weighing 35 lbs. per yard.	Total.	Steel, weighing 41 lbs. per yard.	Steel, weighing 60 lbs. per yard.	Steel, weighing 66 lbs. per yard.	Total.	Total Iron and Steel.
1	Miles of rail in way, including sidings	306·02	316·40	2·38	624·80	837·74	882·30	1·02	1,721·06	2,346·36
2	Rails removed ... Miles...	·32	15·82	...	16·14	4·43	·07	·04	4·54	20·68
3	New Rails laid ... Miles...	·66	5·48	...	6·14	3·45	14·85	...	18·30	24·44

Total mileage of Iron and steel Rails laid ... 24·44
Do. do. removed ... 20·68
Increase ... 3·76

Increase is due to addition and extension of sidings.

MAYAVARAM-MUTUPET RAILWAY.

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

HALF-YEAR ENDED *30th June 1895.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.				STEEL.				
		Double headed weighing 68 lbs. per yard.	Flat footed weighing 40 lbs. per yard.	Flat footed weighing 35 lbs. per yard.	Total.	Steel weighing 41 lbs. per yard.	Steel, weighing 60 lbs. per yard.	Steel, weighing 66 lbs. per yard.	Total.	Total Iron and Steel.
1	Miles of rail in way, including sidings	...	118·76	...	118·76	...	...	...	...	118·76
2	Rails removed ... Miles....	...	1·92	...	1·92	...	...	...	...	1·92
3	New Rails laid ... Miles....	...	1·92	...	1·92	...	...	...	...	1·92

Total mileage of Iron and Steel rails laid ... ... 1·92
Do do. removed ... ... 1·92

SOUTH INDIAN RAILWAY.

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

HALF-YEAR ENDED *30th June 1895.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	Wood. Transverse. Creosoted Pine 9' × 10" × 5"	Wood. Transverse. Creosoted 4 round 6' × 10" × 5"	Wood. Transverse. Teak of size.	Wood. Transverse. Pingado 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 57 lbs.	Iron. Total.	Iron. D. and C. Cast iron sleepers.	Steel, Transverse Sleepers.
		No.	No.	No.	No.	No.	Lnl. ft.	Pairs.	Pairs.	Pairs.	Pairs.	Pairs.	No.
1	Number of Sleepers in way, including sidings at the commencement of the half-year. ...	266	238,178	67,628	36,739	412,811	103,603	217,310	844,310	10,336	1,071,956	93,705	746,022
2	Average age of Sleepers in way at the end of the half-year... ...Years...	32·83	13·41	16·61	4·18	12·54	9·42	24·82	6·05	4·26	10·16	7·44	4·03
3	Number removed ...	...	37,336	427	6,082	43,845	1,123	24	146	26	200	114	32
4	Number laid ...	...	5,589	54	6,071	11,714	1,123	6,434	12,206	13,950	34,594	114	876
5	Percentage of removals on total of each class (1) ...	...	14·46	·63	7·01	10·62	1·08	·01	·02	·23	·02	·12	·004
6	Number of Sleepers in way, including sidings at the end of the half-year ...	266	226,431	67,255	86,728	380,680	103,603	223,720	856,370	26,260	1,106,350	93,705	746,866

Total number of Woolen, Iron and Steel sleepers laid ... 47,298
Total number do. removed ... 44,191
Increase ... 3,107

Increase is due to addition and extension of sidings.

23

MAYAVARAM—MUTUPET RAILWAY.

APPENDICES TO ANALYSIS OF WORKING.—*Continued.*

HALF-YEAR ENDED *30th June 1895.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	Wood. Transverse. Creosoted Pine 9' × 10" × 5"	Wood. Transverse. Creosoted 4 round 6' × 10" × 5"	Wood. Transverse. Teak of size.	Wood. Transverse. Pingado 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 57 lbs.	Iron. Total.	Iron. D. and C. Cast Iron sleepers.	Steel Transverse Sleepers.
		No.	No.	No.	No.	No.	Lineal feet.	Pairs.	Pairs.	Pairs.	Pairs.	Pairs.	No.
1	Number of Sleepers in way, including sidings at the commencement of the half-year ...	...	...	1,251	119,067	120,318	2,332	...	...	...	...	...	...
2	Average age of Sleepers in way at the end of the half-year ... Years...	...	...	1·25	1·24	1·24	1·25	...	...	...	...	...	·50
3	Number removed ...	...	...	...	781	781	...	..	...	...	...	...	...
4	Number laid ...	...	...	...	...	...	...	...	...	...	...	...	781
5	Percentage of removals on total of each class (1) ...	...	...	...	·66	·65	...	...	...	...	...	-	...
6	Number of sleepers in way, including sidings at the end of the half year ...	...	...	1,251	119,286	119,537	2,332	...	...	...	...	...	781

Total number of wooden Iron and steel sleepers laid ... 781
Do. Do. Do. Removed ... 781

PONDICHERRY RAILWAY.

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

HALF-YEAR ENDED *30th June 1895.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.		Iron.			Steel.			
			Double headed-weighing 68 lbs. per yard.	Flat footed weighing 40·3 lbs. per yard.	Flat footed weighing 35·3 lbs. per yard.	Total.	Steel, weighing 41 lbs. per yard.	Steel, weighing 50 lbs. per yard.	Steel, weighing 56 lbs. per yard.	Total.	Total Iron and Steel.
1	Miles of rail in way including sidings ...	...	...	14·63	...	14·63	3·89	·69	...	4·56	19·21
2	Rails removed ... Miles...	...	...	·36	...	·36	...	...	...	...	·36
3	New Rails laid ... Miles...	...	...	...	...	...	·36	...	...	·36	·36

Total mileage of Iron and steel Rails laid ... ·36
do. do. removed ... ·36

PONDICHERRY RAILWAY.

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

HALF-YEAR ENDED *30th June 1895.*

APPENDIX V.

Maintenance of Way.

SLEEPERS

	DETAILS.	Wood.						Iron.					Steel, Transverse Sleepers.
		Transverse.					Longitudinal.	Pot sleepers Weighing 60 lbs.	Pot sleepers Weighing 70 lbs.	Pot sleepers Weighing 57 lbs.	Total	D. and O. Cast iron sleepers.	
		Creosoted Pine 9′ × 10″ × 5″	Creosoted ♦ round 6′ × 10″ × 5″	Teak of sizes.	Pingadoo. 6′—6″ × 5″ × 4½″	Total.							
1	Number of Sleepers in way, including Sidings at the commencement of the half-year ...	No. ...	No. 12,804	No. 1,149	No. 5,117	No. 19,070	Lineal feet 2,567	Pairs. ...	Pairs. 673	Pairs. 135	Pairs. 808	Pairs. ...	No. ...
2	Average age of Sleepers in way at the end of the half-year... ...Years...	...	13·27	13·54	3·02	11·03	13·50	...	9·00	7·58	8·79	..	..
3	Number removed ...	...	296	...	...	296	...	...	...	...	...	.	...
4	Number laid ...	...	296	...	...	296	...	...	...	...	...	.	...
5	Percentage of removals on total of each class (3) ...	...	2·31	...	...	1·55	...	...	...	...	...	...	...
6	Number of Sleepers in way, including Sidings at the end of the half-year ...	...	12,804	1,149	5,117	19,070	2,567	...	673	135	808	..	..

Total number of Wooden Iron and Steel sleepers laid ... 296
Total number removed ... 296

No. 866

South Indian Railway Co., Ld.

AGENT'S OFFICE,

TRICHINOPOLY, 24th September 1895.

From

Ag:
THE AGENT,

SOUTH INDIAN RAILWAY,

To

THE CONSULTING ENGINEER

FOR RAILWAYS,

MADRAS.

Sir,

Referring to your letter No. 135 of the 12th instant and in continuation of my letter No. 862 of the 20th idem, I have the honor to forward by railway parcel thirty copies of the Analysis of Working of the South Indian, Mayavaram Mutteipet and Pondicherry Railways for the half year ended 30th June 1895.

No copies have been sent to the Director General of Railways.

I have the honor to be,
Sir,
Your most Obedient Servant.

Dan Logan
Ag: Agent.

30 Enclosures
by Ry parcel

4152
25/9/95

From

The Agent,
South Indian Railway,
Trichinopoly.

To

The Consulting Engineer for
Railways,
Madras.

Dated
Received } 189 .

No.

Enclosure.

(R) Form No. 3.

No. 624 R. dated 28 Sept 95

Public Works Department,
Railway Branch.

A/-

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the Agent S.I.R. G. E. No: 866 dated 24th Sept 95
Forwarding 30 copies of the Analysis of working of the
South Indian Mayaveram Mutupet and Pondicherry
Rys for the half year ended
30th June 1895.

Ordered that nine
copies of the Analysis of
working South Indian
Railway (including the Maya
varam Mutupet and
Pondicherry railways) for
the half year ended the
30th June 1895, be forwarded
to the Director General of
Railways and Secretary
of State.

To The Agent S.I.R
a Examiner Branch, Madras.

2/10/95 G. E. No: 625. R 9th 5th Sept 1895
Forwarded

DISPATCHED
10 OCT. 95

G. E. No: 19 R 28th Sept 1895
To The Right Honble the Secy of State for India
My Lord,
We have the hono
to forward herewith a Co

Our Receiving No 624. Rd
1st Sept 1895, embodying the
Analysis of working S. 9 K
(including Mayavaram
Tiruturaipundi and Pondicherry
Railways) for the half year
ended the 30th June 1895.

Hall
21/5

R
25/9-95

A/-

No 624 Rd 26/9/95
625