Public Works (1899). Department.

RAILWAY BRANCH.

G.O., No. 369-70 Ry

DATED 1st April 1899

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[Despatch Abstract.]

(Dr Es) Analysis of working, S.I. Ry.

Ordered that Copies of the — (including Nagarcoil-Madura, Pondicherry & Karaikkal Rys) for the half-year ended the 31/12/98, be forwarded to the Director of Ry. Traffic & Statistics.

Forwarding Copy of Pros embodying Copies of the — (including M. & S.W., Pon & Karaikkal Rys) for the year ended the 31/12/98.

Forwarding Copy of Pros embodying the — (including M. & S.W., Pon & Karaikkal Rys) for the year ended the 31/12/98.

Indexed

BACK PAPERS.

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

FURTHER PAPERS.

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

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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

No. $\frac{5}{369\ Ry.}$, dated 1st April 1899.

FORWARDING copy of Proceedings embodying the Analysis of Working, South Indian Railway (including Mayavaram-Mutupet, Pondicherry and Peralam-Karaikkal Railways) for the half-year ended the 31st December 1898.

RAILWAY.

Government {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899. Enclosures
Regd. } Spare copies

G.O., No. 369 Ry., 1st April 1899.

APRIL.

Analysis of Working, South Indian Railway

Ordered that copies of the — (including Mayavaram-Mutupet, Pondicherry and Peralam-Karaikkal Railways) for the half-year ended the 31st December 1898, be forwarded to the Director of Railway Traffic and to the Secretary of State.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper :—

From—The Agent, South Indian Railway.
To—The Consulting Engineer for Railways.
Dated—Trichinopoly, 29th March 1899, No. 280.

ORDER—No. 369 Ry., dated 1st April 1899.

Ordered that nine copies of the Analysis of Working, South Indian Railway (including Mayavaram-Mutupet, Pondicherry and Peralam-Karaikkal Railways) for the half-year ended the 31st December 1898, be forwarded to the Director of Railway Traffic and to the Secretary of State for India.

[Here enter No. 370 Ry., dated 1st April 1899.]

(True Extract.)

FRANCIS J. E. SPRING,
Joint Secretary.

To the Agent, South Indian Railway.
„ Examiner, Guaranteed Railway Accounts, Madras.
„ Consulting Engineer for Railways.

Exd. Shaik Karim.

No. $\frac{5}{369\ \text{Ry.}}$, 1st April 1899.

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. 369 Ry., dated 1st April 1899, embodying the Analysis of Working, South Indian Railway (including Mayavaram-Mutupet, Pondicherry and Peralam-Karaikkal Railways) for the half-year ended the 31st December 1898.

We have the honour to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) A. E. HAVELOCK.
(„) A. T. ARUNDEL.
(„) H. M. WINTERBOTHAM.

(By order.)

Joint Secretary.

FORT ST. GEORGE,
1st April 1899.

RAILWAY.

Government {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899. *Enclosures*

Regd. } 1899. *Spare copies*

G.O., Nos. 369, 370 Ry., 1st April 1899.

APRIL.

Analysis of Working, South Indian Railway

Forwarding copy of Proceedings embodying copies of the — (including Mayavaram-Mutupet, Pondicherry and Peralam-Karaikkal Railways) for the half-year ended the 31st December 1898.

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GOVERNMENT OF MADRAS.

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Joint Secretary.

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„ Examiner, Guaranteed Railway Accounts, Madras.
„ Consulting Engineer for Railways.

Endorsement—No. 370 Ry., dated 1st April 1899.

Forwarded.

(By order.)

Francis J. E. Spring,
Joint Secretary.

Ed. Shaik Karim.

South Indian Railway.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING

FOR THE

Half-Year ended 31st December 1898.

TRICHINOPOLY:—BRANCH "ECLIPSE" PRESS.

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SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING

FOR THE HALF-YEAR ENDED *31st December 1898.*

Progressive Number.	Headings.			Remarks.
	No. 1.			
	DESCRIPTION OF RAILWAY WORKED.		Ft. In.	
1	Gauge of Railway	...	3 $3\frac{3}{8}$	
2	Mean mileage worked	... *Miles.*	1,109·97	S.I.Ry. M.M.Ry. P.Ry. P. K. Ry.
3	Number of stations	... *No.*	169	1033·73 53·99 7·80 14·45
4	Total length of the following gradients			
	(*a*) $\frac{1}{60}$ and less	... *Miles.*	...	
	(*b*) $\frac{1}{61}$ to $\frac{1}{80}$	... ,,	...	
	(*c*) $\frac{1}{81}$ to $\frac{1}{100}$	... ,,	119·39	
	(*d*) $\frac{1}{101}$ to $\frac{1}{200}$	... ,,	207·91	
	(*e*) $\frac{1}{201}$ to $\frac{1}{300}$	... ,,	82·48	
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.*	2·39	S.I.Ry. M.M.Ry. P.Ry. P. K. Ry. 2·43 1·80 1·23 ·70
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.*	69,437·23	S.I.Ry. M.M.Ry. P.Ry. P. K. Ry. 70,918·94, 46,210·50, 72,890·13, 49,982·21
9	Total earnings per mile open per week	... ,,	147·97	
10	Total working expenses per-mile per week	... ,,	83·13	
11	Total earnings per train-mile	... ,,	2·40	
12	Total working expenses per train-mile	... ,,	1·35	
13	Net earnings per train-mile	... ,,	1·05	
14	Cost per 1,000 gross ton-miles moved (freight and dead weight)	... ,,	8·36	
15	Percentage of total working expenses upon total earnings	... *Per cent.*	56·18	
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.*)	... ,,	55·45	
17	Percentage of total working expenses on total earnings (for details see table No. VII.)	,,	56·18	
	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.*	23,22,536	
	Proportions, *dividing expenditure in ratio of gross ton mileage* (*freight and dead load*)			
19	Coaching	... ,,	12,00,990	
20	Goods	... ,,	11,21,546	

Capital outlay of the Pondicherry Railway is Rs. 5,68,543.

Form No. 1.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *31st December 1898.*

Progressive Number.	Headings.			Remarks.
	No. V.			
	COACHING TRAFFIC.			
	GROSS RECEIPTS AND TRAIN-MILEAGE—			
21	Receipts from coaching Traffic	... *Rs.*	21,62,374	
22	Coaching Train miles run	... *No.*	972,710	
23	Average coaching receipts per train-mile	... *Rs.*	2·22	
	UNITS AND UNIT MILEAGE—			
	Number of units carried one mile.			
24	1st class			
25	2nd ,,	... *Unit Miles.*	671,828	
26	3rd or Intermediate class	... ,,	2,456,853	
27	4th or Lowest class	... ,,	...	
28	Total Passenger unit mileage	... ,,	184,296,910	
29	Other coaching traffic	... ,,	187,425,591	
	Average sum received for carrying a unit one mile.	... *Ton Miles.*	430,566	
30	1st class			
31	2nd ,,	... *Pies.*	11·66	
32	3rd or Intermediate class	... ,,	5·90	
33	4th or lowest class	... ,,	...	
34	Average for all classes	... ,,	2·00	
35	Other coaching traffic per ton mile	... ,,	2·08	
	Average number of units in a train.		57·61	
36	1st class			
37	2nd ,,	... *No.*	·69	
38	3rd or Intermediate class	... ,,	2·52	
39	4th or Lowest class	... ,,	...	
40	Total passenger units	... ,,	189·47	
41	Other coaching traffic	... ,,	192·68	
		... *Tons.*	·44	
	VEHICLES AND VEHICLE MILEAGE—			
	Number of Coaching Vehicles hauled one mile			
42	1st class	... *Vehicle Miles.*	1,030,700	
43	2nd ,,	... ,,	1,547,979	
44	3rd or Intermediate class	... ,,	...	
45	4th or Lowest class	... ,,	13,748,843	
46	Other Vehicles	... ,,	1,498,804	
47	Brake-vans	... ,,	58,393	
48	Total	... ,,	17,884,719	
	Average Number of Vehicles in a coaching train.			
49	1st class	... *No.*	1·06	
50	2nd ,,	... ,,	1·59	
51	3rd or Intermediate class	... ,,	...	
52	4th or Lowest class	... ,,	14·14	
53	Other Vehicles	... ,,	1·54	
54	Brake-vans	... ,,	·06	
55	Total	... ,,	18·39	
	Average earnings per coaching vehicle per mile.			
56	1st class	... *Pies.*	7·60	
57	2nd ,,	... ,,	9·36	
58	3rd or Intermediate class	... ,,	...	
59	4th or Lowest class	... ,,	26·77	
60	Other vehicles	... ,,	16·55	
	Carrying capacity hauled one mile (excluding brakes)			
61	1st class	... *Seats.*	8,993,622	
62	2nd ,,	... ,,	18,839,088	
63	3rd or Intermediate class	... ,,	...	
64	4th or Lowest class	... ,,	412,320,891	
65	Other vehicles	... *Tons.*	3,029,484	
	Percentage of freight upon capacity hauled.			
66	1st class	... *Per cent.*	7·47	
67	2nd ,,	... ,,	13·04	
68	3rd or Intermediate class	... ,,	...	
69	4th or Lowest class	... ,,	44·70	
70	Other vehicles	... ,,	14·21	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—(*continued.*)

HALF-YEAR ENDED *31st December 1898.*

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*	11,752,112	
72	Dead-weight	,,	131,954,705	
73	Total	,,	143,706,817	
	Average weight of a coaching train.			
74	Freight	*Tons.*	12·08	
75	Dead-weight	,,	135·66	
76	Total	,,	147·74	
	COST OF WORKING AND PROFITS—			
77	Average cost of hauling a coaching train one mile	*Rs.*	1·23	
78	Average cost of hauling, a coaching vehicle with its load one mile	*Pies.*	12·94	
	Average cost of hauling a coaching unit one mile.			
79	Per passenger unit	,,	1·13	
80	Other traffic per ton	,,	44·93	
81	Average profit on working a coaching train one mile	*Rs.*	·99	
	Average profit on working a coaching vehicle one mile.			
82	1st class	*Pies.*	*5·34*	*Loss.*
83	2nd ,,	,,	*3·58*	*do.*
84	3rd or Intermediate class	,,		
85	4th or Lowest class	,,	13·83	
86	Other vehicles	,,	3·61	
	Average profit on working a coaching unit one mile.			
87	Per passenger unit	*Pies.*	·95	
88	Other traffic per ton	,,	12·68	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—*(continued.)*

HALF-YEAR ENDED *31st December 1898.*

Progressive Number.	Headings.			Remarks.
	No. VI.			
	GOODS TRAFFIC.			
	GROSS RECEIPTS AND TRAIN-MILEAGE—			
89	Receipts from Goods Traffic	*Rs.*	20,23,553	
90	Goods Train-miles run	*No.*	809,469	
91	Average goods receipts per train-mile	*Rs.*	2·50	
	UNITS AND UNIT MILEAGE—			
92	Tons of Goods carried one mile	*Ton Miles.*	44,757,359	
93	Average sum received for carrying a ton one mile	*Pies.*	8·68	
94	Average number of tons in a train	*Tons.*	55·29	
	VEHICLES AND VEHICLE MILEAGE—			
	Number of Goods vehicles hauled one mile.			
95	Loaded	*Vehicle Miles.*	11,303,751	
96	Empty	,,	3,850,000	
97	Brake-vans	,,	502,589	
98	Total	,,	15,656,340	
	Average number of vehicles in a goods train			
99	Freight vehicles	*No.*	18·72	
100	Brake-vans	,,	·62	
101	Total	,,	19·34	
102	Average earnings per goods vehicle per mile (excluding brakes)	*Pies.*	25·64	
103	Carrying capacity hauled one mile (excluding brakes)	*Tons.*	90,424,385	
104	Percentage of freight upon capacity hauled	*Per cent.*	49·50	
105	Average load of a goods vehicle (including both loaded and empty)	*Tons.*	2·95	
106	Average load of a loaded goods vehicle	,,	3·96	
	WEIGHT OF TRAIN AND TON MILEAGE—			
	Gross ton mileage of all goods trains.			
107	Freight	*Ton Miles.*	44,757,359	
108	Dead-weight	,,	89,443,507	
109	Total	,,	134,200,866	
	Average weight of a goods train			
110	Freight	*Tons.*	55·29	
111	Dead-weight	,,	110·50	
112	Total	,,	165·79	
	COST OF WORKING AND PROFITS—			
113	Average cost of hauling a goods train one mile	*Rs.*	1·39	
114	Average cost of hauling a goods vehicle with its load one mile	*Pies.*	14·21	
115	Average cost of hauling a goods unit (viz. one ton) one mile	,,	4·81	
115 A	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	*Rs.*	1·11	
116	Average profit on working a goods train one mile	*Pies.*	11·43	
117	Average profit on working a goods vehicle with its load one mile	,,	3·87	
118	Average profit on working a goods unit (viz. one ton) one mile			

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—*(continued.)*

HALF-YEAR ENDED *31st December 1898.*

Progressive Number.	Headings.			Remarks.
	No. VII.			
	DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.			
	Percentage to Total Earnings—			
119	Coaching Traffic	*Per cent.*	50·64	
120	Goods Traffic	,,	47·39	
121	Sundries, including Telegraph	,,	1·97	
122	Steam-boat Earnings	,,	...	
	Total Earnings	,,	100·00	
	Percentage of Working Expenses upon Total Earnings—			
123	Maintenance	*Per cent.*	10·46	
124	Locomotive Expenses	,,	20·88	
125	Carriage and Wagon Expenses	,,	6·15	
126	Traffic Expenses	,,	9·74	
127	General Charges	,,	7·44	
128	Miscellaneous Charges	,,	1·51	
129	Steam-boat Expenses	,,		
130	Total Working Expenses	,,	56·18	

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *31st December 1898.*

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. 1,094·12	*b.* Per mile of track including Sidings. 1,236·87	*c.* Per total Train-mile. 1,782,179	*d.* Per 1,000 gross ton miles. 277,907,683
IX (A)	...		*General Superintendence*—	Rs.	Rs.	As.	Rs.
1	1 & 2		Engineers' Salaries and allowances	45·00	39·81	·44	·18
	3 to 5		Subordinate Superintendents' salaries and allowances, including overtime	33·79	29·89	·33	·13
	6		Office expenses	31·08	27·49	·31	·12
		131	Total...	109·87	97·19	1·08	·43
2	1		*Maintenance and Renewal of Permanent Way*— Wages	108·81	96·25	1·07	·43
	2		Materials	130·32	115·28	1·28	·51
		132	Total...	239·13	211·53	2·35	·94
3	1		*Repairs of Bridges, &c.*—*Wages and Materials.* Bridges and tunnels	24·93	22·06	·25	·10
	2		Miscellaneous	6·38	5·64	·06	·03
3(A)		133	Total...	31·31	27·70	·31	·13
4	1		*Repairs of Stations and Buildings*—*Wages and Materials*— Repairs of all, except staff quarters	17·30	15·31	·17	·07
	2		Repairs of staff quarters	4·43	3·91	·04	·02
		135	Total...	21·73	19·22	·21	·09
5	1		*Maintenance by Contract*— Amount paid to Contractors	5·03	4·45	·05	·02
	2		Materials supplied by the Railway	·23	·20	·002	·001
6			Total...	4·21	3·72	·04	·02
			New Minor Works—	...	...	...	...
7	1		*Unclassified Expenditure*— Plantations	2·61	2·31	·03	·01
	2		Tools and Plant	26·24	23·22	·26	·10
	3		Loss by exchange				
	4		Loss on stores, &c.				
	5		Freight on Stores				
			Total...	33·29	29·45	·332	·131
			Total Heads, 5, 6 and 7	38·32	33·90	·38	·15
			Less Credits	*32·23*	*28·52*	*·32*	*·13*
		136	*Net Total, Other Charges*	6·09	5·38	·06	·02
		137	*Total Maintenance*	408·13	361·02	4·01	1·61

If done Departmentally.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *31st December 1898.*

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. 1,782,179	*b.* Per Engine mile. 2,089,764	*c.* Per 1,000 gross ton-miles. 277,907,683
			General Superintendence—	As.	As.	Rs.
IX (B) 1	1 & 2		Salaries of Superintendents and Assistants, including allowances	·16	·13	·07
	3 to 5		Ditto of Subordinate ditto including ditto ...	·25	·22	·10
	6		Office expenses ...	·18	·15	·07
		138	Total...	·59	·50	·24
			Running Expenses—			
2	1 & 2		Wages of Drivers and firemen, including overtime ...	1·23	1·05	·50
	3		Fuelling, cleaning and looking after engines ...	·28	·24	·11
	4		Contingent expenses ...	·01	·01	·003
		139	Total...	1·52	1·30	·61
3	1 to 4		*Fuel.*—(In terms of Khurhurbaree coal) Average quantity consumed	lbs. 30·53	lbs. 26·04	lbs. 195·81
			Average price per ton Rs.*14·74	As.	As.	Rs.
		140	Do. cost	3·22	2·74	1·29
4		141	*Water.*—Including wages and Stores	·18	·15	·07
5		142	*Oil, tallow and other Stores*	·32	·27	·13
			Maintenance and Renewals—			
6	1 & 2		Wages including overtime	·42	·36	·17
	3		Materials	1·44	1·23	·57
		143	Total...	1·86	1·59	·74
6 A.	...	...	Machinery	·03	·03	·01
7			*New Minor Works*			
8			*Payments to other lines*			
			Unclassified Expenditure—			
9	1		Loss by exchange	...	...	...
	2		Loss on Stores, &c.	·002	·002	·001
	3		Freight on Stores	·35	·30	·14
			Total...	·35	·30	·14
			Total Heads 7, 8 and 9	·35	·30	·14
			Less Credits	*·06*	*·05*	*·02*
		144	*Net Total, other Charges*	·29	·25	·12
		145	*Total, Locomotive Expenses*	8·01	6·83	3·21

* This is in terms of Khurhurbaree but the average price on actual quantity as per Revenue Account is Rs. 13·17 per ton.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *31st December 1898.*

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.	*b.* Per 1,000 Vehicle miles run by home Vehicles.
					1,782,179	33,698,189
			General Superintendence—		As.	Rs.
IX (C) 1	1 & 2		Salaries of Superintendents, including allowances	...	·05	·18
	3 to 5		Ditto of Subordinate ditto, including ditto	... ...	·09	·28
	6	146	Office expenses	... ...	·06	·19
				Total...	·20	·65
			Repairs and Renewals of Vehicles and Machinery—			
2	1 to 3	147	Coaching Vehicles ... Wages including overtime	...	·33	2·05
			Materials	... ...	·71	4·35
				Total...	1·04	6·40
	1 to 3	148	Goods Vehicles ... Wages including overtime	...	·21	1·49
			Materials	... ...	·69	4·95
2A.			Machinery	Total...	·90	6·44
			Cleaning and Oiling—	... ...	·00002	·00006
3	1		Labour, including wages of Oilers, &c.	... ...	·18	·58
	2	149	Stores	...	·04	·14
4			*New Minor works—*	Total...	·22	·72
			Unclassified Expenditure—		...	...
5	1		Loss by exchange	...		
	2		Loss on Stores, &c.	...	·01	·05
	3		Freight on Stores	...	·02	·06
			Total Heads, 4 and 5 ...	Total...	·03	·11
			Less Credits	...	·03	·11
		150	*Net Total, Other Charges*	...	·03	·10
		151	*Total, Carriage and Wagon Expenses*	...	...	·01
					2·36	7·79

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—*(contd.)*—HALF-YEAR ENDED *31st December 1898.*

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.	*b.* Per cent of Traffic earnings. Abstracts H. and I.
				1,782,179	41,85,927
			General Superintendence—	As.	Per cent.
IX (D) 1	(*a*) 1 & 3		Traffic Manager, Assistants, &c., including travelling allowance	·34	·92
	(*a*) 2 & 4		Office Establishment and contingencies	·16	·42
		152	Total...	·50	1·34
	(*b*)	153	*Station Staff*	1·64	4·37
	(*c*)	154	*Train Staff*	·38	1·02
2	1 to 3	155	*Fuel, Lighting, Water and General Stores*	·49	1·29
3		156	*Clothing*	·09	·25
4		157	*Printing, Stationery and Tickets*	·54	1·44
5		158	*Charges for delivery and collection of goods, &c.*	·0001	·0003
6		159	*Miscellaneous Expenses*	·01	·03
			Payments to Other Lines—		
7	1	160	Expenses at Joint Stations	·08	·20
			Unclassified Expenditure—		
8	1		Loss by Exchange	...	...
	2		Loss on Stores, &c.	·001	·004
	3		Freight on Stores	·001	·003
			Total Head 8 ...	·002	·007
			Less Credits	·005	·014
		161	*Net Total, Other Charges*	·003	·007
		162	*Total Traffic Expenses*	3·73	9·93

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—(*contd.*)—HALF-YEAR ENDED *31st December 1898.*

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.
IX (E) 1	1 to 4	163	*Home Expenditure*	1,782,179	42,70,307
				As.	Per cent.
1 *a*			*Government Supervision, Audit and Control*	·38	1·00
	1	164	*Indian Management*— Agent's Office, including travelling allowances and contingencies	·38	·98
	2		Auditor's office ditto ditto		
	3		Accounts office ditto ditto	·21	·56
2	4		Paymaster's office ditto ditto		
		165	Total 2 to 4	·66	1·72
	5	166	Store Department	·66	1·72
	6	167	Medical Department, ditto ditto	·20	·50
	7		Rents	·14	·36
	8 to 10		Miscellaneous expenses, including printing, stationery and medicine	·003	·01
		168			
3	1 to 3	169	*Police*	·15	·40
4		170	*Advertising* ... ... Total 7 to 10...	·15	·41
			Electric Telegraph—	·19	·49
5	1 to 4		Salaries, &c.	·01	·03
	5		Maintenance (Wages and Stores)	·22	·57
	6		Government Telegraph Department, for rent, maintenance and inspection	·03	·08
		171		·28	·74
6			*Clearing Accounts, with other lines*— ... ... Total...	·53	1·39
	1		*Unclassified Expenditure*—		
7	2		Loss by exchange	·0021	·005
	3		Loss on Stores, &c.	·0005	·001
			Freight on Stores		
			Total Heads, 6 and 7 ... ... Total...	·0026	·006
		172	*Less Credits*	·0026	·006
		173	*Net Total, Other Charges*	...	...
			Total General Charges	·0026	·006
				2·85	7·44

Earnings of the South Indian Railway Company	Rs.	41,18,525-14-9
Earnings of the Pondicherry Railway Company	,,	15,894- 5-3
Earnings of the M. M. Railway Company	,,	1,22,961- 4-3
Earnings of the P. K. Railway Company	,,	12,922- 7-4
	Rs.	42,70,306-15-7

Form No. 1.

PUBLIC WORKS DEPARTME

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

ANALYSIS OF WORKING.—(*continued.*)—HALF-YEAR ENDED *31st December 1898.*

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, 42,70,307
IX (G) 1	...	174	*Law Charges*—	Per cent. ·003
			Compensation—	
2	1		For goods lost or damaged	
	2		,, Personal injury	·03
	3		,, Other claims	...
		175		·001
				Total... ·03
3	...	176	*Rates and Taxes*	·21
			Payments to other Lines—	
4	1	...	Hire of Locomotives	...
	2	...	,, of vehicles	...
	3	...	Mileage of foreign stock	...
	4	...	Rent of stations, &c., jointly occupied	·10
		177		Total... ·10
5	...	...	*Contribution to Provident Fund*	·29
6 to 8	...	...	*Miscellaneous*	·65
			Total Heads 5 to 8	·94
			Less Credits	...
		178	*Net Total Other Charges*	·94
		179	*Total Special and Miscellaneous Expenses*	1·28

A. D. G. SHELLEY,
CAPTAIN, R. E.,
Agent.

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS)

APPENDICES TO ANALYSIS OF WORKING.

HALF-YEAR ENDED *31st December 1898.*

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	6 Coupled	4 Coupled	6 Coupled	
			2—Weight on driving axle ... S. I. R.	...	6 15 0	6 9 0	7 19 0	6 8 0	
			2—Weight on driving axle ... O. class.	...	8 6 2	0 0 0	...	...	
			2—Weight on driving axle ... Nellore	...	0 0 0	6 15 0	...	...	
			2—Weight on driving axle ... 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	
			3—Weight of Engine in steam... O. class.	...	23 14 0	0 0 0	...	...	
			3—Weight of Engine in steam... Nellore	...	0 0 0	19 18 0	...	...	
			3—Weight of Engine in steam... V. G.	...	21 9 0	22 5 0	...	...	
			4—Weight of Tender Loaded ... S. I. R.	...	14 0 0	14 0 0			
			4—Weight of Tender Loaded ... O. class.	...	15 10 0	0 0 0	...	...	
			4—Weight of Tender Loaded ... Nellore	...	0 0 0	12 18 0	...	...	
			4—Weight of Tender Loaded ... V. G.	...	14 0 0	13 16 0	...	...	
XII	5		1—Number of Locomotives erected and made over to Locomotive Department						
	11		2—Average number of Locomotives constantly under repairs and renewals ...	...	69	131	8		208
			3—Number of Locomotives laid by as spare ...	...	13·299	31·962	·804		46·065
			4—Ditto lent or hired out to other lines ...	...	...	5	...		5
			5—Average number of Locomotives 1—(3 + 4) ...	...	...	·67	...		·67
			6—Total Mileage of Locomotives (5) ...	...	69	125·33	8		202·33
			7—Average miles run by a Locomotive of each class 6 ÷ 5 ...	...	788,910	1,242,056	58,798		2,089,764
			Per diem.						
			8—Weight of coal &c., used per engine mile ...	...	11,433	9,910	7,350		10,328
			8—Weight of coal &c., used per engine mile ...	...	62·14	53·86	39·95		56·13
			9—Weight of wood used per engine mile ... *To be separated if possible among the classes of Locomotives*	...	lbs. 20·10	lbs. 37·29	lbs. 17·23		lbs. 26·04*
					Passenger Trains.	Goods Trains.	Mixed Trains.		
			10—Average gross weight of trains hauled *Tons*...		61·22	96·20	190·10	...	121·82
			11—Average speed between stations *Miles per hour*...		27½	13	16	...	...
			12—Average through speed *Miles per hour*...		18	9½	12	...	...
			13—Average consumption of coal per engine mile, *lbs*...		24·65	23·89	26·43	...	...

Description of fuel consumed.			Coefficient or multiplier for reducing to Khurhurbaree Coal.	Quantity in terms of Khurhurbaree Coal
COAL. Singareni	Tons.	1,564·73	Tons. ·55	Tons. 860·60
COAL. Burrakur	,,	18,260·53	·88	16,069·27
	Total.	19,825·26		
FIREWOOD Contractors	Tons.	18,956·30		16,929·87
FIREWOOD Forest Department	,,	1,954·00	·34	6,445·14
	Total.	20,910·30	·47	918·38
				7,363·52

* Consumption of fuel in terms of Khurhurbaree Coal.

APPENDIX II.

Form No. 1.

PUBLIC WORKS DEPARTMENT

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM-MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

APPENDICES TO ANALYSIS OF WORKING.—(contd.) HALF-YEAR ENDED 31st December 1898.

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—(f+g)	MILEAGE OF: Foreign Vehicles on Home Line. Loaded.	Foreign Vehicles on Home Line. Empty.	Home Vehicles on Home Line. Loaded.	Home Vehicles on Home Line. Empty.	Home Vehicles on Foreign Lines.	Carrying Capacity hauled on Home Line.	Ton mileage of Vehicle dead weight hauled on Home Line.
	a.	b.	c.	d.	e.	f.	g.	h.	i.	k.	l.	m.	n.	o.	p.
COACHING STOCK.															
Bogie: Governor's Saloon Carriage	1	11·23	11·23	22	...	...	...	1	...	...	4,046	...	...	44,506	22,718
Bogie: Inspection Carriage	2	11·66		15	...	...	...	2	...	...	22,122	...	...	165,915	128,971
Bogie: First Class Clemenson's	1	12·30		22	...	...	...	1	...	...	11,768	...	...	129,448	72,373
Bogie: Third Class Carriage	70	10·76		64	...	...	...	70	...	...	3,228,466	...	...	103,310,912	17,369,147
Bogie: Composite Carriage	20	11·61		25	...	...	...	20	...	...	1,300,736	...	...	16,295,200	7,550,772
Bogie: Composite ½ 3rd and ½ Brake van	20	12·04		32	...	...	...	20	...	...	1,356,200	...	...	21,699,200	8,164,324
Bogie: Do. ½ do. and ½ Postal	8	12·10		32	...	...	...	8	...	...	321,736	...	...	5,147,776	1,946,503
*Six-wheeled Third Class Carriage	8	10·26	10·26	64	...	...	...	8	...	...	257,640	...	...	8,244,480	1,321,693
Four-wheeled: Inspection carriage Engineers	3	6·57	5·45	6·50	...	...	...	3	...	...	12,214	...	...	79,391	80,246
Four-wheeled: First class do.	19	6·11		10	...	...	...	19	...	...	316,096	...	...	3,160,960	1,931,347
Four-wheeled: Composite do.	44	5·95		12·95	...	...	...	44	...	...	588,363	...	...	7,619,301	3,500,760
Four-wheeled: Second class do.	537	5·29		31·34	...	...	...	537	...	...	8,556,881	...	...	7,110,000	3,466,125
Four-wheeled: Intermediate do.	30	5·25		1·17	...	...	...	30						268,172,650	45,265,901
Four-wheeled: Third class do.	5	3·16		3·00	...	...	...	5	619	619	1,426,808	26,477	...	3,262,658	8,502,079
Four-wheeled: Horse Boxes	81	5·87		2·00	...	...	...	81							309,847
Four-wheeled: Carriage Trucks	12	6·22		4·50	...	...	...	12	...	...	48,338	...	...	...	99,632,806
Four-wheeled: Luggage vans with brake	6	6·41		...	...	...	...	6	619	619	18,043,914	26,477	1,602	...	
Four-wheeled: Post Office Vans	911	6·27	6·27	...	...	...	...	911							
Four-wheeled: Post Office Vans with luggage compartment and brake	1,817	4·09		6·04				1817							
GOODS STOCK— Total	6	4·21		2·00				6							
Four wheeled: Covered Goods Wagons	467	3·26		5·96				467							
Four wheeled: Cattle Trucks	813	3·72		6·00				813							
Four wheeled: Open Wagons	63	4·80	3·89	4·50	5·97	...	...	65	151,469	140,841	* 10,887,618	3,463,125	...	87,653,296	56,838,706
Four wheeled: High sided Wagons	33	3·15		5·12				33							
Four wheeled: Cotton Trucks	3	19·00		Nil.				3							
Four wheeled: Timber Trucks	7	4·87		4·29				7							
Four wheeled: Travelling cranes	4	2·76		6·00				4							
Four wheeled: Powder Vans	17	3·65	3·65	Nil.				17							31,229
Four wheeled: Platform Wagons	9	7·75		10·00				9	...	...	...	...	...	...	
Four wheeled: Water Tanks travelling	14	7·86	7·63	10·00	10·00	...	...	14	...	...	202,498	170,648	...	1,865,730	1,423,552
*Six-wheeled: Tank Wagons for Carriage of Petroleum	1	3·40		10·00				1							
*Six-wheeled: Cotton Trucks Clemenson's	20	6·15	6·90	14·00	13·05	...	...	20	...	...	76,276	75,386	...	989,595	523,234
*Six-wheeled: Ten Ton Boiler Truck	18	7·73		12·00				18							2,707,777
*Bogie: Iron low sided Bogie Wagons	52	6·77	6·77	...	...	...	...	52	...	...	399,967	...	...	...	61,524,498
*Bogie: Timber Trucks Bogie	3,344	4·00	4·00	6·08	6·08	...	...	3,344	151,469	140,841	11,566,359	3,709,159	350,678	...	161,157,304
Brake Vans	4,255	...	...	...	...	...	...	4,255	152,088	141,460	29,610,273	3,735,636	352,280	...	

* Mileage of Bogie and Six-wheeled carriages of double the carrying capacity of ordinary vehicles has been doubled.

* Includes 419 miles run by Travelling crane.
8,556 miles run by Travelling water tanks are not included in the mileage, columns i to o

Average mileage per diem run by ... { Coaching Vehicles 93,215 / Goods ditto 84,608

SOUTH INDIAN RAILWAY.

(INCLUDING MAYAVARAM—MUTUPET, PONDICHERRY AND PERALAM-KARAIKKAL RAILWAYS.)

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

HALF YEAR ENDED *31st December 1898.*

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	1,030,700	8,993,622	6,116,516	
Second class	1,547,979	18,839,088	9,049,133	
Third or Intermediate class	...	...	...	
Fourth or Lowest class	13,748,843	412,320,891	74,197,988	
Total Passenger vehicles	16,327,522	440,153,601	89,363,637	
Other coaching vehicles	1,498,804	3,029,484	8,790,965	
Total paying coaching mileage	17,826,326	...	98,154,602	
Passenger brake-vans	58,393	...	378,145	
Total coaching mileage, including brakes ...	17,884,719	...	98,532,747	
Goods—				
Loaded Vehicles	11,303,751	67,449,493	43,873,858	
Empty do.	3,850,000	22,974,892	14,887,975	
Total paying goods mileage	15,153,751	90,424,385	58,761,833	
Goods Brake-vans	502,589	...	3,300,115	
Total goods mileage, including brakes	15,656,340	...	62,061,948	
Miscellaneous—				
Free mileage for inspection, &c.	98,398	...	562,609	
GRAND TOTAL ...	33,639,457	...	161,157,304	

SOUTH INDIAN RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.				STEEL.				Total Iron and Steel.
		Double headed-weighing 68 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 50 lbs. per yard.	Steel, weighing 56 lbs. per yard.	Total.	
1	Miles of rail in way, including sidings	304·38	231·88	2·14	538·40	791·72	968·70	2·62	1,763·04	2,301·44
2	Rails removed ... Miles...	·83	4·33	·10	5·26	53·05	·54	...	53·59	58·85
3	New Rails laid ... Miles...	2·13	1·49	...	3·62	2·19	3·38	·44	6·01	9·63

Total mileage of Iron and steel Rails removed ... 58·85 Miles.
Do. do. laid ... 9·63 „
Decrease ... 49·22

Decrease is due to removal of sidings and handing over of the Gudur Nellore section to B. M. Railway.

MAYAVARAM-MUTUPET RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.				STEEL.				Total Iron and Steel.
		Double headed-weighing 68 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 50 lbs. per yard.	Steel, weighing 56 lbs. per yard.	Total.	
1	Miles of rail in way, including sidings	...	119·24	...	119·24	...	...	...	...	119·24
2	Rails removed ... Miles...	...	·59	...	·59	...	...	...	...	·59
3	New Rails laid ... Miles...	...	·43	...	·43	...	...	...	...	·43

Total mileage of Iron and Steel rails removed ... ... ·59
Do. do. rails laid ... ... ·43
Decrease ... ·16

Decrease is due to removal of sidings.

SOUTH INDIAN RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	Wood. Transverse. Sal wood.	Wood. Transverse. Creosoted ¼ 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 57 lbs.	Iron. Total.	Iron. D. and O. Cast Iron sleepers.	Steel Transverse Sleepers.
		No.	No.	No.	No.	No.	Linl. ft.	Pairs.	Pairs.	Pairs.	Pairs.	Pairs.	No.
1	Number of Sleepers in way, including sidings at the commencement of the half-year ...	...	147,461	66,191	110,425	324,077	118,847	220,337	936,279	18,057	1,174,673	92,060	747,546
2	Average age of Sleepers in way at the end of the half-year... ...Years...	·08	16·35	19·26	4·56	12·96	10·76	28·16	8·93	7·50	12·85	10·86	7·53
3	Number removed ...	...	12,181	1,577	1,078	14,836	5,580	101	884	2,435	3,420	19,667	26,132
4	Number laid ...	45	...	1,006	8,104	9,155	606	183	808	...	991	147	146
5	Percentage of removals on total of each class (1) ...	...	8·26	2·38	·98	4·58	4·69	·05	·09	13·48	·29	21·36	3·49
6	Number of sleepers in way including sidings at the end of the half-year ...	45	135,280	65,620	117,451	318,396	113,873	220,419	936,203	15,622	1,172,244	72,540	721,560

Total number of wooden, Iron and steel Transverse sleepers removed ... 64,055
Do. do. do. laid ... 10,439

Decrease ... 53,616

Decrease is due to removal of sidings and handing over of the Gudur-Nellore section to B. M. Railway.

MAYAVARAM-MUTUPET RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	Wood. Transverse. Sal wood.	Wood. Transverse. Creosoted ¼ 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 57 lbs.	Iron. Total.	Iron. D. and O. 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 ...	...	...	2,914	117,243	120,157	2,917	...	...	...	...	...	781
2	Average age of Sleepers in way at the end of the half-year... ...Years...	...	...	3·04	4·70	4·66	4·15	...	...	...	...	...	3·27
3	Number removed ...	...	...	...	808	808	...	...	...	...	...	...	...
4	Number laid ...	...	...	...	468	468	...	...	...	...	...	...	190
5	Percentage of removals on total of each class (1) ...	...	...	...	·69	·67	...	...	...	...	...	...	...
6	Number of sleepers in way, including sidings at the end of the half-year ...	...	...	2,914	116,903	119,817	2,917	...	...	...	...	...	971

Total Number of wooden, and steel Transverse sleepers removed ... 808
Do. do. do, laid ... 658

Decrease ... 150

Decrease is due to removal of sidings.

Form No. 1.

PONDICHERRY RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.			STEEL.			Total Iron and Steel.
		Double headed-weighing 68 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 50 lbs. per yard.	Steel, weighing 56 lbs. per yard.	Total.	
1	Miles of rail in way, including sidings	...	15·34	...	15·34	3·88	·68	...	4·56	19·90
2	Rails removed ... Miles...	...	·21	...	·21	...	...	...	...	·21
3	New Rails laid ... Miles...	...	·87	...	·87	...	...	...	...	·87

Total mileage of Iron and steel Rails laid ... ·87 Miles.
Do. do. removed ... ·21 "

Increase ... ·66 "

Increase is due to extension of sidings.

Form No. 1.

PONDICHERRY RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	WOOD. TRANSVERSE. Creosoted Half round 6′ × 10″ × 5″	Creosoted ½ round 6′ × 10″ × 5″	Teak of sizes.	Pingadoo 6′—6″ × 9″ × 4½″	Total.	WOOD. Longitudinal.	IRON. Pot sleepers Weighing 80 lbs.	Pot sleepers Weighing 70 lbs.	Pot sleepers Weighing 57 lbs.	Total.	D. and O. 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 ...	9,634	...	1,149	8,492	19,275	724	...	673	135	808	...	...
2	Average age of Sleepers in way at the end of the half-year ...Years...	15·36	...	16·82	4·17	11·40	18·62	...	12·50	11·08	12·29	...	...
3	Number removed ...	180	...	...	...	180	42	...	...	...	...	...	...
4	Number laid ...	660	...	15	180	855	...	...	...	...	...	...	...
5	Percentage of removals on total of each class (1) ...	1·87	...	...	...	·93	5·80	...	...	...	...	...	...
6	Number of sleepers in way, including sidings at the end of the half-year ...	10,114	...	1,164	8,672	19,950	682	...	673	135	808	...	...

Total number of wooden and Iron sleepers laid ... 855
Do. do. do. removed ... 180

Increase ... 675

Increase is due to extension of sidings.

PERALAM-KARAIKKAL RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.	IRON.			STEEL.			Total Iron and Steel.
		Double headed-weighing 68 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 50 lbs. per yard.	Steel, weighing 56 lbs. per yard.	Total.	
1	Miles of rail in way, including sidings ...	...	...	...	...	...	...	...	...	...
2	Rails removed ... Miles...	...	...	...	...	33·16	...	...	33·16	33·16
3	New Rails laid ... Miles...	...	...	...	...	...	...	...	...	...

Total mileage of Iron and steel Rails laid ... Nil.
Do, do, removed ... Nil.

PERALAM-KARAIKKAL RAILWAY.

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

HALF-YEAR ENDED *31st December 1898.*

APPENDIX V.

Maintenance of Way.

SLEEPERS.

	DETAILS.	WOOD. TRANSVERSE. Sal wood.	Creosoted ¼ round 6′ × 10″ × 5″	Teak of sizes.	Pingadoo 6′—6″ × 9″ × 4½″	Total.	WOOD. Longitudinal.	IRON. Pot sleepers Weighing 80 lbs.	Pot sleepers Weighing 70 lbs.	Pot sleepers Weighing 57 lbs.	Total.	D. and O. 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 ...	...	...	277	29,548	29,825	344	...	...	...	...	...	4,815
2	Average age of Sleepers in way at the end of the half-year... ...Years...	...	...	·80	·80	·80	·80	...	...	...	...	...	·80
3	Number removed ...	...	...	...	...	...	...	...	...	...	...	...	...
4	Number laid ...	...	...	...	...	...	...	...	...	...	...	...	...
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 ...	...	...	277	29,548	29,825	344	...	...	...	...	...	4,815

Total number of wooden, iron and steel Transverse sleepers removed ... Nil
Do, do, do. laid ... Nil

PUBLIC WORKS DEPARTMENT

Form No. 1.

PUBLIC WORKS DEPARTMENT,

No. 280

South Indian Railway Co., Ld.,

AGENT'S OFFICE,

TRICHINOPOLY, 29th March 1899.

Duplicate

From

The AGENT,

SOUTH INDIAN RAILWAY,

To

The CONSULTING ENGINEER FOR RAILWAYS,

MADRAS.

Sir,

I have the honor to forward, by Railway parcel, thirty (30) copies of the Analysis of Working of the South Indian, Mayavaram-Mutupet, Pondicherry, and Peralam-Karaikkal Railways for the half year ended 31st December 1898.

I have the honor to be
Sir
Your most obedient Servant

M Le Mesurier
for Agent

30 Enclosures
by Ry parcel

Form No. 1.

PUBLIC WORKS DEPARTMENT,

RAILWAY BRANCH.

Papers to be read in Proceedings:—

A/

Again G.O., dated 189 , No.

Again G.O., dated 189 , No.

E/c Current No. 1681 of 1899, dated 30-3-99, from A 2nd note 1st

" " " 189 , " " "

" " " 189 , " " "

ORDER. No. 369 Ry dated 1/4/99

Ordered that nine copies of the Analysis of working South Indian Railway (including Mayavaram Mutupet, Pondicherry and Peralam-Karaikal Railways) for the half year ended the 31st Dec. 1898, be forwarded to the Director of Railway Traffic and to the Secretary of State for India.

H. E. No. 370 Rly dated 1st April 1899

Forwarded.

H. E. No. 5/369 Rly dated 1st April 1899

To The Hon'ble the Secretary of State for India

My Lord,

We have the honour to forward herewith, a copy of our

2 P

Print

To The Agent S. I. Ry

" Examiner, Gr. Rly Accts Calcutta

" Chief Engr for Ry

S 1/4/99

From
THE AGENT,
South Indian Railway,
Trichinopoly.

To
THE CONSULTING ENGINEER FOR
RAILWAYS,
Madras.

Dated
Received } 189

No.

ENCLOSURE.

re Cargo No: 369. R.M. of 1st April
1899, embodying the Analyses
& Assays, Sulk: Indian R.M.
(including Mayaveram Mutupet
Pondicherry, Peralam Karaikal &
Kaderam) for the half year
ended the 31st December 1898.

Fairview 4th Jan: 31/3/99

S.K.

Dispatched on 13/4/99

3P

30/3-99