

Public Works (1898) Department.

RAILWAY BRANCH.

G.O., No. 1352-53. *Ly*

DATED 3rd Nov. 1898.

Proof $\frac{100}{13} \frac{20}{35}$

[Despatch Abstract.]

Analysis of Working, Madras Ry.

Ordered that copies of the — (including Kolar Gold Fields Ry. & Madras-Egmore section of the B.M.Ry) for the half-year ended the 30th June 1898, be forwarded to the Director of Railway Traffic & to the Secy of State

Forwarding copies of the Pro. embodying a copy of the — (including K. & R. & M.R. section of the B.M.Ry) for the half-year ended the 30th 6/98.

Government {1898} of Madras.
PUBLIC WORKS.

Spare copies

G.O., Nos. 1352, 1353 Ry., 3rd November 1898.

NOVEMBER.

Forwarding a copy of the proceedings embodying a copy of the — (including Kolar Gold Fields Railway and Madras-Ennur Section of East Coast Railway), for the half-year ended the 30th June 1898.

No. 1352 Ry., 3RD NOVEMBER 1898.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper :—

From—The Agent and Manager, Madras Railway Company.
To—The Consulting Engineer for Railways, Madras.
Dated—Madras, 1st November 1898, No. 10405/1030.

ORDER—No. 1352 Ry., dated 3rd November 1898.

Ordered that nine copies of the Analysis of Working of the Madras Railway (including Kolar Gold Fields Railway and Madras-Ennur section of East Coast Railway) for the half-year ended the 30th June 1898, be forwarded to the Director of Railway Traffic and to the Secretary of State.

[Here enter No. 1353 Ry., dated 3rd November 1898.]

(True Extract.)

FRANCIS J. E. SPRING,
Joint Secretary.

To the Agent and Manager, Madras Railway.
" Examiner of Railway Accounts, Madras.
" Consulting Engineer for Railways.

ENDORSEMENT—No. 1353 Ry., dated 3rd November 1898.

Forwarded.

(By order.)

FRANCIS J. E. SPRING,
Joint Secretary.

Exd. T. K. Narayana Aiyangar.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

(Copy.)

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

No. ²⁴_{1352 Ry.}, dated 3rd November 1898.

FORWARDING a copy of the Proceedings embodying a copy of the Analysis of Working, Madras Railway (including Kolar Gold Fields Railway and Madras-Ennur section of East Coast Railway), for the half-year ended the 30th June 1898.

RAILWAY.

Government {1898} of Madras.
PUBLIC WORKS.

Recd.

Regd.

} 1898.

Enclosures

Spare copies

G.O., No. 1352 Ry., 3rd November 1898.

NOVEMBER.

Analysis of Working, Madras Railway

Ordered that copies of the — (including Kolar Gold Fields Railway and Madras-Ennur section of Bezwada-Madras Railway), for the half-year ended the 30th June 1898, be forwarded to the Director of Railway Traffic and to the Secretary of State.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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To the Agent and Manager, Madras Railway.
 „ Examiner of Railway Accounts, Madras.
 „ Consulting Engineer for Railways.

Exd. T. K. Narayana Aiyangar.

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. 1352 Ry., dated 3rd November 1898, embodying a copy of the Analysis of Working of the Madras Railway (including the Kolar Gold Fields Railway and the Madras-Ennur section of the East Coast Railway) for the half-year ended the 30th June 1898.

We have the honour to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) A. E. HAVELOCK.
 („) H. W. BLISS.
 („) A. T. ARUNDEL.

FORT ST. GEORGE,
 3rd November 1898.

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

DESPATCH

FOR SIGNATURE

OF

HIS EXCELLENCY THE GOVERNOR

AND

MEMBERS OF GOVERNMENT.

(With Original).

Form No. 1.

Madras Railway Company.

INCLUDING THE KOLAR GOLD FIELDS AND MADRAS-ENNUR
SECTION OF THE BEZWADA-MADRAS RAILWAYS.

ANALYSIS OF WORKING

FOR THE

Half-Year ending 30th June 1898.

Printed by H. Plumbé, at the Lawrence Asylum Press, Mount Road, Madras--1898.

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ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.

Progressive Number.	HEADINGS.	REMARKS.
No. V.		
COACHING TRAFFIC.		
GROSS RECEIPTS AND TRAIN-MILEAGE—		
21	Receipts from coaching traffic	<i>Rs.</i> 22,95,126
22	Coaching train-miles run	<i>No.</i> 637,498
23	Average coaching receipts per train-mile	<i>Rs.</i> 3-60
UNITS AND UNIT-MILEAGE—		
Number of units carried one mile—		
24	1st Class	<i>Unit miles.</i> 1,848,746
25	2nd „	5,854,396
26	3rd or Intermediate Class	...
27	4th or Lowest Class	157,916,166
28	Total passenger unit mileage	165,619,308
29	Other coaching traffic	<i>Ton-miles.</i> 1,753,433
Average sum received for carrying a unit one mile—		
30	1st Class	<i>Pies.</i> 11-02
31	2nd „	4-61
32	3rd or Intermediate Class	...
33	4th or Lowest Class	2-10
34	Average for all classes... ..	2-28
35	Other coaching traffic per ton-mile	35-51
Average number of units in a train—		
36	1st Class	<i>No.</i> 2-90
37	2nd „	9-19
38	3rd or Intermediate Class	...
39	4th or Lowest Class	247-71
40	Total passenger units	259-80
41	Other coaching traffic	<i>Tons.</i> 2-75
VEHICLES AND VEHICLE-MILEAGE—		
Number of coaching vehicles hauled one mile—		
42	1st Class	<i>Vehicle miles</i> 946,416
43	2nd „	1,111,167
44	3rd or Intermediate Class	...
45	4th or Lowest Class	6,384,153
46	Other vehicles	890,299
47	Brake vans	...
48	Total	9,332,035
Average number of vehicles in a coaching train—		
49	1st Class	<i>No.</i> 1-49
50	2nd „	1-74
51	3rd or Intermediate Class	...
52	4th or Lowest Class	10-01
53	Other vehicles	1-40
54	Brake vans	...
55	Total	14-64
Average earnings per coaching vehicle per mile—		
56	1st Class	<i>Pies.</i> 21-52
57	2nd „	24-31
58	3rd or Intermediate Class	...
59	4th or Lowest Class	51-85
60	Other vehicles	69-93
Carrying capacity hauled one mile (excluding brakes)—		
61	1st Class	<i>Seats.</i> 10,223,194
62	2nd „	22,416,421
63	3rd or Intermediate Class	...
64	4th or Lowest Class	325,527,961
65	Other vehicles	<i>Tons.</i> 3,634,029
Percentage of freight upon capacity hauled—		
66	1st Class	<i>Per cent.</i> 18-08
67	2nd „	26-12
68	3rd or Intermediate Class	...
69	4th or Lowest Class	48-51
70	Other vehicles	48-25

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.

Progressive Number.	HEADINGS.	REMARKS.
WEIGHT OF TRAIN AND TON-MILEAGE—		
Gross ton-mileage of all coaching trains—		
71	Freight	<i>Ton-miles.</i> 11,881,628
72	Dead weight	122,550,306
73	Total	134,431,934
Average weight of a coaching train—		
74	Freight	<i>Tons.</i> 18-64
75	Dead weight	192-23
76	Total	210-87
COST OF WORKING AND PROFITS—		
77	Average cost of hauling a coaching train one mile... ..	<i>Rs.</i> 1-35
78	Average cost of hauling a coaching vehicle with its load one mile	<i>Pies.</i> 17-70
Average cost of hauling a coaching unit one mile—		
79	Per passenger unit	<i>Pies.</i> 9-90
80	Other traffic per ton	8-99
81	Average profit on working a coaching train one mile	<i>Rs.</i> 2-25
Average profit on working a coaching vehicle one mile—		
82	1st Class	<i>Pies.</i> 3-82
83	2nd „	6-61
84	3rd or Intermediate Class... ..	...
85	4th or Lowest Class	34-15
86	Other vehicles	52-23
Average profit on working a coaching unit one mile—		
87	Per passenger unit	<i>Pies.</i> 1-38
88	Other traffic per ton	26-52
No. VI.		
GOODS TRAFFIC.		
GROSS RECEIPTS AND TRAIN-MILEAGE—		
89	Receipts from goods traffic	<i>Rs.</i> 33,55,223
90	Goods train-miles run	<i>No.</i> 660,076
91	Average goods receipts per train-mile	<i>Rs.</i> 5-08
UNITS AND UNIT MILEAGE—		
92	Tons of goods carried one mile	<i>Ton-miles.</i> 76,779,967
93	Average sum received for carrying a ton one mile	<i>Pies.</i> 8-39
94	Average number of tons in a train	<i>Tons.</i> 116-32

ANALYSIS OF WORKING For the Half-year ended 30th June 1898.

Progressive Number.	HEADINGS.	REMARKS.
VEHICLES AND VEHICLE-MILEAGE—		
Number of goods vehicles hauled one mile—		
95	Loaded	
96	Empty	
97	Brake vans	
98	Total	
Average number of vehicles on a goods train—		
99	Freight vehicles	
100	Brake vans	
101	Total	
102	Average earnings per goods vehicle per mile (excluding brakes)	
103	Carrying capacity hauled one mile (excluding brakes)	
104	Percentage of freight upon capacity hauled	
105	Average load of a goods vehicle (including both loaded and empty)	
106	Average load of a loaded goods vehicle	
WEIGHT OF TRAIN AND TON-MILEAGE—		
Gross ton-mileage of all goods trains—		
107	Freight	
108	Dead weight	
109	Total	
Average weight of a goods train—		
110	Freight	
111	Dead weight	
112	Total	
COST OF WORKING AND PROFIT—		
113	Average cost of hauling a goods train one mile	
114	Average cost of hauling a goods vehicle with its load one mile	
115	Average cost of hauling a goods unit (viz., one ton) one mile	
115A	Do. do. do. do. including interest on capital expended on open line, &c.	
116	Average profit on working a goods train one mile	
117	Average profit on working a goods vehicle with its load one mile	
118	Average profit on working a goods unit (viz., one ton) one mile	

ANALYSIS OF WORKING For the Half-year ended 30th June 1898.

Progressive Number.	HEADINGS.	REMARKS.
No. VII.		
DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.		
Percentage to Total Earnings—		
119	Coaching Traffic	39.80
120	Goods Traffic	58.18
121	Sundries, including Telegraph	2.02
122	Steam-boat Earnings	
Total, Earnings		100.00
Percentage of Working Expenses upon Total Earnings—		
123	Maintenance	9.62
124	Locomotive Expenses	16.99
125	Carriage and Wagon Expenses	4.08
126	Traffic Expenses	7.45
127	General Charges	5.09
128	Miscellaneous Charges	.87
129	Steam-boat Expenses	
Total, Working Expenses		44.10

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
No. VIII.—WORKING EXPENSES.

TABLE A.
Maintenance of Way, Works and Stations.

REFERENCE TO REVENUE ACCOUNT.		Progressive num- ber in analysis.	DETAILS.	Per mile of line maintained.	Per mile of track, including sidings.	Per total train-mile.	Per 1,000 gross ton- miles.
Table and main head.	Sub- head.			(857·68)	(1,046·57)	(1,297,574)	382,410,542
IX (A)	1	1 & 2 3 to 5 6	<i>General Superintendence—</i>	Rs.	Rs.	As.	Rs.
			Engineers' salaries and allowances ...	62·56	51·27	·66	·14
			Subordinate Superintendents' salaries and allowances, including overtime ...	43·25	35·41	·46	·10
	2	1 2	Office expenses ...	34·76	28·49	·37	·08
			Total ...	140·57	115·20	1·49	·32
			<i>Maintenance and Renewal of Permanent- way—</i>				
	3	1 2	Wages ...	167·51	137·28	1·77	·37
			Materials ...	124·82	102·29	1·32	·28
			Total ...	292·33	239·57	3·09	·65
	4	1 2	<i>Repairs of Bridges, &c.—Wages and Materials—</i>				
			Bridges and tunnels ...	38·08	31·21	·40	·08
			Miscellaneous ...	25·42	20·83	·27	·06
	5	1 2	Total ...	63·50	52·04	·67	·14
			<i>Conservancy of Rivers</i> ...				
			<i>Repairs of Stations and Buildings—Wages and Materials—</i>				
	6	1 2	Repairs of all, except staff quarters ...	45·51	37·30	·48	·10
			Repairs of staff quarters ...	16·19	13·27	·17	·04
			Total ...	61·70	50·57	·65	·14
	7	1 2	<i>Maintenance by Contract—</i>				
			Amount paid to contractors ...				
			Materials supplied by the Railway ...				
	8	1 2	Total ...				
			<i>New Minor Works</i> ...	11·08	9·08	·12	·03
			<i>Unclassified Expenditure—</i>				
	9	1 2 3	Plantations ...	1·53	1·25	·01	...
			Tools and Plant ...	5·03	4·12	·05	·01
			Loss by exchange ...	42·22	34·60	·45	·09
	10	1 2 3	Loss on stores, &c. ...				
			Freight on stores ...	35·61	29·19	·38	·08
			Arcot-Ranipet Survey ...	Cr. 6·94	5·69	·07	·01
	11	1 2 3	Total ...	77·45	63·47	·82	·17
			<i>Total, Heads 5, 6 and 7</i> ...	88·53	72·55	·94	·20
			<i>Less Credits...</i> ...	·03	·03		
	12	1 2 3	136 <i>Net Total, Other Charges</i> ...	88·50	72·52	·94	·20
			137 <i>Total Maintenance</i> ...	646·60	529·90	6·84	1·45

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
No. VIII.—WORKING EXPENSES.

TABLE B.
Locomotive Expenses.

REFERENCE TO REVENUE ACCOUNT.		Progressive num- ber in analysis.	DETAILS.	Per Total train-mile.	Per engine mile.	Per 1,000 gross ton- miles.
Table and main head.	Sub- head.			(1,297,574)	(1,551,560)	382,410,542
IX (B)	1	1 & 2 3 to 5 6	<i>General Superintendence—</i>	As.	As.	Rs.
			Salaries of Superintendents and assistants, includ- ing allowances... ..	·21	·18	·05
			Do. of subordinate do. including do. ...	·41	·34	·09
	2	1 2	Office expenses... ..	·26	·21	·05
			Total ...	·88	·73	·19
			<i>Running Expenses—</i>			
	3	1 & 2 3 4	Wages of Drivers and Firemen, including overtime..	1·77	1·48	·37
			Fuelling, cleaning and looking after engines ...	·37	·31	·08
			Contingent expenses			
	4	1 to 4	Total ...	2·14	1·79	·45
			<i>Fuel—[In terms of Giridih (Kurhurbaree) Coal].</i>	lbs.	lbs.	lbs.
			Average quantity consumed	50·04	41·85	169·80
	5	1 to 4	Average price per ton, Rs. 15·20	As.	As.	Rs.
			Do. cost	5·43	4·54	1·15
			140 <i>Water—(including wages and stores)</i>	·23	·20	·05
	6	1 & 2 3	141 <i>Oil, Tallow and other Stores</i>	·36	·30	·08
			<i>Maintenance and Renewals of Engines—</i>			
			Wages, including overtime	1·42	1·19	·30
	7	1 2 3	Materials	·89	·74	·19
			Total ...	2·31	1·93	·49
			<i>Maintenance and Renewals of Machinery—</i>			
	8	1 & 2 3	Wages, including overtime	·07	·06	·01
			Materials	·03	·03	·01
			Total ...	·10	·09	·02
	9	1 2 3	143a <i>New Minor Works</i>			
			<i>Payments to other Lines</i>			
			<i>Unclassified Expenditure—</i>			
	10	1 2 3	Loss by exchange	·18	·15	·04
			Loss on stores, &c.	·45	·37	·09
			Freight on stores			
	11	1 2 3	Total ...	·63	·52	·13
			<i>Total, Heads 7, 8 and 9...</i>	·63	·52	·13
			<i>Less Credits</i>			
	12	1 2 3	144 <i>Net Total, Other Charges</i>	·63	·52	·13
			145 <i>Total Locomotive Expenses</i>	12·08	10·10	2·56

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
No. VIII.—WORKING EXPENSES.

TABLE C.
Carriage and Wagon Expenses.

REFERENCE TO REVENUE ACCOUNT.		Progressive num- ber in analysis.	DETAILS.	Per total train-mile. (1,297,574)	Per 1,000 vehicle miles run by home vehicles. (27,756,767)
Table and main head.	Sub- head.				
IX (C) 1	1 & 2	3 to 5	<i>General Superintendence—</i>	As.	Rs.
			Salaries of Superintendents, including allowances ...	·07	·20
			Do. of subordinate do. including do. ...	·13	·37
	6	146	Office expenses ...	·08	·24
			Total ...	·28	·81
			<i>Repairs and Renewals of Vehicles—</i>		
	1 to 3	147	Coaching vehicles ... { Wages, including overtime ...	·37	3·11
			Materials ...	·23	1·90
			Total ...	·60	(a) 5·01
	1 to 3	148	Goods vehicles ... { Wages, including overtime ...	·49	2·22
			Materials ...	·84	3·79
			Total ...	1·33	(b) 6·01
2a	1 & 2	148a	<i>Repairs and Renewals of Machinery—</i>		
			Wages, including overtime ...	·04	·12
			Materials ...	·03	·08
	3	149	Total ...	·07	·20
			<i>Cleaning and Oiling—</i>		
	1		Labour, including wages of oilers, &c. ...	·25	·73
	2		Stores ...	·21	·63
			Total ...	·46	1·36
		4	<i>New Minor Works</i> ...	...	...
			<i>Unclassified Expenditure—</i>		
	1		Loss by exchange ...	·13	·38
5	2	3	Loss on stores, &c. ...	...	...
			Freight on stores ...	·03	·07
			Total ...	·16	·45
		150	<i>Total, Heads 4 and 5</i> ...	·16	·45
			<i>Less Credits</i> ...	...	...
			<i>Net Total, Other Charges...</i> ...	·16	·45
		151	<i>Total Carriage and Wagon Expenses</i> ...	2·90	8·48

(a) Per 1,000 Coaching Vehicle Miles.

(b) Per 1,000 Goods Vehicle Miles.

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
No. VIII.—WORKING EXPENSES.

TABLE D.
Traffic Expenses.

REFERENCE TO REVENUE ACCOUNT.		Progressive num- ber in analysis.	DETAILS.	Per total train- mile. (1,297,574)	Per cent. of traffic earnings. Abstracts H. and L. (56,50,348)
Table and main head.	Sub- head.				
IX (D) 1	(a) 1 & 3	152	<i>General Superintendence—</i>	As.	Per cent.
			Traffic Manager, Assistants, &c., including travelling allowances ...	·59	·84
	(a) 2 & 4		Office establishment and contingencies ...	·30	·44
		153	Total ...	·89	1·28
	(b)		<i>Station Staff</i> ...	2·43	3·48
	(c)		<i>Train Staff</i> ...	·77	1·10
	2 1 to 3	155	<i>Fuel, Lighting, Water and General Stores</i> ...	·50	·72
	3	156	<i>Clothing</i> ...	·07	·11
	4	157	<i>Printing, Stationery and Tickets</i> ...	·45	·64
	5	158	<i>Charges for Delivery and Collection of Goods, &c.</i> ...	·02	·02
6		159	<i>Miscellaneous Expenses</i> ...	·04	·05
			<i>Payments to other Lines—</i>		
	7 1	160	Expenses at joint stations ...	·08	·12
			<i>Unclassified Expenditure—</i>		
	1		Loss by exchange ...	·04	·06
	2		Loss on stores, &c. ...	...	...
	3		Freight on stores ...	·01	·02
			Total, Head 8 ...	·05	·08
			<i>Less Credits</i> ...	...	...
		161	<i>Net Total, Other Charges</i> ...	·05	·08
8		162	<i>Total, Traffic Expenses</i> ...	5·30	7·60

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
No. VIII.—WORKING EXPENSES.

TABLE E.

General Charges.

REFERENCE TO REVENUE ACCOUNT.		Progressive num- ber in analysis.	DETAILS.	Per total train- mile. (1,297,574)	Per cent. on total earnings. (57,66,981)
Table and main head.	Sub- head.				
IX (E) 1	1 to 4	163	Home Expenditure	As. ·48	Per cent. ·63
			Indian Management—		
	1	164	Agent's Office, including travelling allowances and contingencies	·34	·48
	2		Auditor's Office ditto ditto	·91	1·27
	3		Account's Office ditto ditto		
	4		Cash Office ditto ditto		
		165	Total 2 to 4 ...	·91	1·27
	5	166	Store Department, ditto ditto	·14	·20
	6	167	Medical Department, ditto ditto	·20	·28
	7		Rents	·02	·02
	8 to 10		Miscellaneous expenses, including printing, stationery, medicine and contributions to Hospitals	·18	·19
		168	Total 7 to 10 ...	·15	·21
3	1 to 3	169	Police	·23	·33
4	...	170	Advertising	·04	·04
			Electric Telegraph—		
	1 to 4		Salaries, &c.	·63	·88
	5		Maintenance (wages and stores)	·27	·39
	6		Government Telegraph Department for rent, maintenance and inspection	·01	·01
		171	Total ...	·91	1·28
6	...		Clearing accounts with other Lines	...	...
			Unclassified Expenditure—		
	1		Loss on stores, &c.	...	...
	2		Expenses connected with fire-engines	·08	·10
	3		Loss by exchange	·21	·30
	4		Freight on stores	·01	·02
	5		Funeral expenses	...	...
			Total ...	·30	·42
			Total, Heads 6 and 7	·30	·42
			Less Credits	·08	·10
		172	Net Total, Other Charges	·22	·32
		173	Total, General Charges	3·62	5·09

ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
No. VIII.—WORKING EXPENSES.

TABLE F.

Steam Boat Service.

Nil.

TABLE G.

Special and Miscellaneous Expenditure.

REFERENCE TO REVENUE ACCOUNT.		Progressive num- ber in analysis.	DETAILS.	Per cent. on total earnings. (57,66,981)
Table and main head.	Sub- head.			
IX (G) 1	...	174	Law Charges	·02
			Compensation—	
	1		For goods lost or damaged	·04
	2		" personal injury	...
	3		" other claims	...
		175	Total ...	·04
3	...	176	Rates and Taxes	·19
			Payments to other Lines—	
	1		Hire of locomotives	...
	2		" of vehicles	...
	3		Mileage of foreign stock	...
	4		Rent of stations, &c., jointly occupied	...
	5		Shunting at Joint stations	...
		177	Total ...	...
6	...		Contributions to—	
			Railway Provident Institution	·35
			Miscellaneous	·17
5 & 7	...		Total, Heads 5 to 7	·52
			Less Credits	·01
			Net Total, Other Charges	·51
		178	Net Total, Other Charges	·51
		179	Total, Special and Miscellaneous Expenses	·76

MADRAS RAILWAY,
CHIEF AUDITOR'S OFFICE,
18th October 1898.

T. WAKE,
Offg. Chief Auditor.

LOUIS. S. MOSS,
Agent and Manager.

APPENDICES TO ANALYSIS OF WORKING

For the Half-year ended 30th June 1898.

APPENDIX I.

Working of Locomotives.

REFERENCE TO REVENUE ACCOUNT.			Passenger and Mail.	Mixed.	Goods.	Tank.	Total.
Table and Main-head.	Sub- head.						
		Locomotives { 1.—Wheels coupled 2.—Weight on driving axle ... 3.—Weight of engine in steam ... 4.—Weight of tender loaded ...	4 coupled. Tons. 14-90 44-13 30-13	4 coupled. Tons. 13-40 33-10 27-75	6 coupled. Tons. 13-55 38-32 30-12	4 coupled. Tons. 14-27 42-10 ...	
XII	5	1.—Number of locomotives erected and made over to Locomotive Department	41	40	69	18	168
	11	2.—Average number of locomotives constantly under repairs and renewals	6	12	13	2	33
		3.—Number of locomotives laid by as spare	4	3	...	...	+ 7
		4.—Ditto lent or hired out to other lines	1	...	...	...	1
		5.—Average number of locomotives 1—(3 + 4)...	36½	37	69	18	160½
		6.—Total mileage of locomotives (5)	454,891	298,087	654,330	144,252	* 1,551,560
		7.—Average miles run by a locomotive of each class 6 ÷ 5	12,406	8,056	9,483	8,014	9,657
		Per diem	68-54	44-51	52-39	44-23	53-35
		8.—Weight of coal, &c., used per engine-mile. } To be separated, if possible, among the classes of locomotives.	lbs. 45-82	lbs. 37-09	lbs. 44-06	lbs. 29-15	lbs. 41-85
		9.—Weight of wood used per engine-mile. }					
			Passenger trains.	Goods trains (ordinary E. trains.)	Mixed trains.		
		10.—Average gross weight of trains hauled...Tons.	140-66	306-59	293-14	...	237-36
		11.—Average speed between stations... Miles per hour.	28-43	17-22	20-44	...	...
		12.—Average through speed... Miles per hour.	19-95	12-35	10-80	...	...
		13.—Average consumption of fuel per engine mile. lbs.	...	...	...	...	41-85

* { Inclusive of 19,061 engine miles run over the Kolar Gold Fields Railway.
Do. 13,931 do. Madras-Ennur line.
† These are engines awaiting renewals.

The total quantities of each description of fuel consumed were as follows:—

Description of Fuel.	Actual quantity consumed in lbs.	Rate of conversion.	Quantity consumed in terms of Giridih (Kurbur-baree) coal in lbs.
Kurburbaree Coal	...	1-00	...
Patent Fuel	28,448	0-80	35,560
Singareni Coal	30,423,512	1-20	25,352,927
Borakur Coal	10,134,068	1-15	8,812,233
Wood	92,202,525	3-00	30,734,175
Total	...	...	64,934,895

APPENDICES.

APPENDIX TO
For the Half-year
APPEN
Working of

Column f.—We have no vehicles laid by as spare, but in this column
Average Mileage per diem run on

* Includes Madras Railway Vehicles

ANALYSIS OF WORKING.
ended 30th June 1898.
DIX II.
Vehicles.

has been entered the number of vehicles broken up and awaiting renewals.

Home line by Coaching Vehicles	51,618-92.
Goods do.	102,499-80
on K. G. F. Ry. Coaching	116,513.
do. Goods	173,087.
M. E. Railway Coaching	147,596.
do. Goods	105,009.

APPENDICES TO ANALYSIS OF WORKING

For the Half-year ended 30th June 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.	
<i>Coaching—</i>				
First Class	946,416	10,223,194	9,900,783	
Second	1,111,167	22,416,421	11,313,437	
Third	6,384,153	325,527,961	54,363,359	
Total passenger vehicles	8,441,736	358,167,576	75,577,579	
Other coaching vehicles	890,299	3,634,029	7,321,096	
Total paying coaching mileage	9,332,035	<i>Nil.</i>	82,898,675	
Total coaching mileage	9,332,035	<i>Nil.</i>	82,898,675	
<i>Goods—</i>				
Loaded vehicles	12,275,055	145,280,163	83,477,183	
Empty vehicles	3,551,607	42,123,004	23,295,861	
Total paying goods mileage	15,826,662	187,403,167	106,773,044	
Brake vans	2,705,887	...	24,055,335	
Total goods mileage, including brakes	18,532,549	187,403,167	130,828,379	
<i>Miscellaneous—</i>				
Free mileage for inspections, &c.	30,904	92,712	320,165	
Grand Total	27,895,488	<i>Nil.</i>	214,047,219	

APPENDICES TO ANALYSIS OF WORKING
For the Half-year ended 30th June 1898.
APPENDIX IV.—Maintenance of Way-Rails.

APPENDIX IV.—Maintenance of Way-Items.

DETAILS.	IRON, DOUBLE-HEADED, WEIGHING				STEEL.				ENNER SECTION OF BEZWADA-MADRAS RAILWAY.			REMARKS.		
	65 lbs. per yard.	75 lbs. per yard.	84 lbs. per yard.	Others.	Total.	30 feet double- headed 75 lbs. per yard.	20 feet and other double- headed 75 lbs. per yard.	Flat- footed on bridges 75 lbs. per yard.	Total.	Grand Total Iron and Steel.	Steel flat- footed on Enner Line of B. M. Railway 75 lbs. per yard.		30 feet double- headed steel rails 75 lbs. per yard.	Total.
1 Miles of rail in way, including sidings ...	324-7160	757-3080	73-1254	...	1155-1524	149-5380	65-5282	689-1358	12-3512	916-5532	2071-7056	20-0834	1-4000	21-4424
2 Rails removed, miles ...	9-1374	14-7464	5-4790	...	29-3628	...	...	8-6106	0-114	8-6250	* 37-9548	...	...	...
3 Rails laid ...	5-1802	7-1406	1-2000	...	13-5208	10-0340	3068	11-3252	3144	* 21-9801	* 35-5012	...	* 3068	+ 3068

Increased mileage of sidings—
South-West Line ... 1374
North-West Line ... 0366

Decreased in sidings—
South-West Line ... 0215
North-West Line ... 1,4443

Net decrease ... 1,2418 x 2 = 2,4836 miles.

Increased mileage of sidings—
Madras-Enner Section
of the Bezwada-Madras
Railway ... 1534 x 2 = 3068 miles.

* The difference between removed and laid is owing to decrease in mileage of sidings.
* Increased mileage of sidings on the Madras-Enner Section of the Bezwada-Madras Railway.

APPENDIX V.—Maintenance of Way-Sleepers.

DETAILS.	WOOD.											ENNER SECTION OF BEZWADA-MADRAS RAILWAY.			REMARKS.	
	TRANSVERSE.															
	Teak.					Jungle.			Total.	Iron Bowl Sleepers.	Total.	Iron Bowl Sleepers.				
	16' x 12' x 6"		14' x 12' x 6"		12' x 12' x 6"	10' x 12' x 6"	10' x 10' x 5"	10' x 12' x 6"					10' x 10' x 5"			
	16' x 12' x 6"	14' x 12' x 6"	12' x 12' x 6"	10' x 12' x 6"	10' x 10' x 5"	10' x 12' x 6"	10' x 12' x 6"	10' x 10' x 5"					10' x 12' x 6"	10' x 10' x 5"		
1	Number of sleepers in way, including sidings, at the commencement of the half-year ...	2,336	156	5,633	1,596	7,908	4,634	19,007	41,270	110	3,281,438	2	150	19,174	19,326	2,400
2	Average age of sleepers in way at the end of the half-year. Years...	19.1020	24.8601	21.3249	16.9204	16.3716	4.2505	5.4465	8.3051	12.1020	26.6539	1.25	2.14	2.25	2.25	1.72
3	Number removed ...	17	...	49	10	52	362	755	*1,245	...	*10,571	...	...	...	...	...
4	Number laid ...	6	...	37	...	9	357	599	*1,008	...	*7,668	...	...	...	...	...
5	Percentage of removals on total of each class ...	7277	...	8699	6266	6576	7.8118	3.9722	3.0167	...	3.21	...	...	...	...	...
6	Number of sleepers in way, including sidings, at the end of the half-year ...	2,325	156	5,621	1,586	7,865	4,629	18,851	41,033	110	3,278,535	2	150	19,174	19,326	2,400

* The difference between removed and laid is owing to decrease in mileage of sidings.

(No. II.)

No. 10405

1030

MADRAS RAILWAY.

AGENT AND MANAGERS' OFFICE,

Madras, 1st November 1898

From

2/10/98

The Agent and Manager.

M. A. C.

To

Copy of Analysis of working
of 1st 1/2 year to 30.6.98
The Consulting Engineer for Railways.

SIR,

Madras.

I have the honour to forward here-
-with printed copies of the Analysis of
Working of the Madras Railway (including
Kolar Gold Fields' Railway and Madras-
Ennore section of the Bezwada-Madras
Railway) for the half year ending 30th
June 1898, as under:-

30 Copies for your Office.

6 ... for despatch to the Mysore Govt.

I have the honour to be,

Sir,

Your most obedient servant,

Edmund
Agent & Manager

Enclos.
36 copies.

Papers to be read in Proceedings:—

Again G.O., dated

189 , No.

Again G.O., dated

189 , No.

Ex Current No. 5117 of 1898, dated 2-11-98, from A11

" "

" 189 , "

" "

" "

" 189 , "

" "

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer

for Railways.

Dated

188

Recd.

No.

ORDER.

No 1352. By dated 3/11/98

Ordered that 9 copies of the Analyses of working of the Madras Railway (including the Gold Field Railway and Madras Railway) for the half year ending the 30th June 1898, be forwarded to the Director of Railway Traffic and to the Secy of State.

No. 8. N^o 1352 R^o of 30th June 1898

Forwarded.

No. 8. N^o 1352 R^o of 30th June 1898

The R^o H^o the Secy of State for India
 Secy L^o.

We have the honor to forward herewith a copy of the P^o of the R^o N^o 1352 R^o of 30th June 1898, embodying a copy of the Analyses of working of the

Despatched on 22/11/98

22/11/98

the timber haulage (including the
Kolar & Co. Field RM and the
Eumera haulage) for the half
year ended the 30th June 1898.

£ 17.11.98

R.M.N.

No. 348 R.M. 2/3-11-98

To The Resident in Mysore
Sir

I am directed to forward
herewith 6 copies of the Annual
Report of working of the timber
hauling (including Kolar & Co.
Field haulage & the Eumera
hauling) for the half year
ended the 30th June 1898.

omit

3/11/98

SR
2/11/98

2/11/98

2.11.98