

RAILWAY.
Govt. of (1890) Madras.
PUBLIC WORKS.

Dated June, 3rd.

Recd.

Encl.

G.O., 3rd June 1890, No. 766 R.

JUNE.

Messrs. Chisholm and Pawley,
4th class Engineers, Madras
Railway

Letter from the Government of India
revising the sanction previously given
regarding the rate of pay of —, so as to
enable them to draw Rs. 363-10-2 per
mensem instead of Rs. 360 per mensem,
communicated to the Consulting Engineer
for Railways.

Govt. of (1890) Madras.
PUBLIC WORKS.

Dated

Encl.

G.O., 3rd June 1890 No. 767-68 R.

Nellore branch
of the Villupuram -
- putubul state Ry

Analysis of working: the
for the 2nd half of '89,
forwarded to the Director General
of Railways & to the Secy of State

Nellore branch of the
Villupuram - putubul
state Ry

Analysis of working: the
Forwarding the copy of
proceedings embodying the
for the 2nd half of '89.

Nellore branch of the
Villupuram - putubul state
Ry

Analysis of working.
The - for the 2nd half of '89
forwarded to the Director General
of Railways & to the Secy of State

Memos no 2216 12.5.90
fr. Brs 274 R 6.4.88
A - 1240-41 R 11.11.89
Form No. 3.

No. 767 R 3rd June 1890.

Ordered to be forwarded
to the Director General of
Railways and to the Secretary
of State.

No. 768 R 3rd June 1890

Forwarded.

To The Hon. Secy. for Rys
- Ex. Secy. Ry. Secy.

No. 767 R 3rd June 1890

To The Rt Hon. the Secy. of State
for India

My Lord,

We have the honor
to forward a copy of our Progs.
No. 767 R dated 3rd June 1890.
embodying the analysis of working
of the Bellare Branch of the
Tiruppuram Guntakal State Rail.
way for the second half of 1889.

11/6
16.5.90
W. J. R.

P.W. Cu. 4479.

From
THE CONSULTING ENGINEER
FOR RAILWAYS,
MADRAS,

No. 335

Dated 12th
Received 13th } 1890

No. of ENCLOSURES.

P.W. Cu. 4480

Subject.

Submitting, for trans-
mission to Director
General of Railways,
copies of an analysis of
working, Bellare Branch
Tiruppuram Guntakal
State Railway for 2/89

PUBLIC WORKS DEPARTMENT.

120
 OFFICE OF CONSULTING ENGINEER FOR RAILWAYS,
 Madras, 12th May 1890.

Printed
 copies will
 follow.

Ten copies of the Analysis of working,
 Nellore Branch of the Villupuram
 Guntakal State Railway, for the
 half year ended the 31st December
 1889.

No. 335

SUBMITTED

to

Government for

2nd
 transmission to the Director
 General of Railways, with
 reference to letter from
 the Government of India
 No. 204 R.E., dated 23rd March
 1888, embodied in the
 Proceedings of Govern-
 ment No. 274 R., dated
 6th April 1888.

Sikany Smith

Major R.E.

By consg. Engr for Rys.

P.W. Recd
 4479/90

PUBLIC WORKS DEPARTMENT.

Office of Consulting Engineer for Railways,
Madras, 12th May 1890.

120 Ten copies of the Analysis of working,
Nellore Branch of the Villupuram &
Guntakal State Railway, for the
half year ended the 31st December
1889.

No. 335

SUBMITTED to Government for

20 transmission to the Director
General of Railways, with
reference to letter from
the Government of India
No. 204 R-E, dated 23rd March
1888, embodied in the
Proceedings of Govern-
ment No. 274 R, dated
6th April 1888.

Sieker Smith

Major R.E.

By consg. Engr for Rys.

SOUTH INDIAN RAILWAY.

State
VILLUPURAM-GUNTAKAL RAILWAY,
NELLORE BRANCH.

ANALYSIS OF WORKING

FOR THE
31st December,
Half-Year ended 30th June, 1889.

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SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

31st Dec

ANALYSIS OF WORKING.—FOR THE HALF-YEAR ENDED 30th June, 1889.

Progressive Number.	HEADINGS.		REMARKS.
No. I.			
DESCRIPTION OF RAILWAY WORKED.			
		Ft. In.	
1	Gauge of Railway	3 3 $\frac{3}{8}$	
2	Mean mileage worked ... Miles.	82,748.77	
3	Number of stations ... No.	11	
4	Total length of the following gradients :		
	(a) $\frac{1}{50}$ and less ... Miles.		
	(b) $\frac{1}{51}$ to $\frac{1}{80}$... "	3.228	
	(c) $\frac{1}{81}$ to $\frac{1}{100}$... "	31.458	
	(d) $\frac{1}{101}$ to $\frac{1}{200}$... "	6.728	
	(e) $\frac{1}{201}$ to $\frac{1}{300}$... "		
5	Steepest gradient worked—		
	(a) Length ... Miles.	.587	
	(b) Inclination ... "	1 in 100	
No. II.			
FINANCIAL RESULTS.			
6	Percentage of net earnings (including steam boat traffic) on Capital outlay ... Per cent..	.57	
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.	74,710	
9	Total earnings per mile open per week ... "	56.01	
10	Total working expenses per mile per week ... "	39.35	
11	Total earnings per train-mile ... "	1.74	
12	Total working expenses per train-mile ... "	1.22	
13	Net earnings per train-mile ... "	.52	
14	Cost per 1,000 gross ton-miles moved (freight and dead weight) ... "	9.96	
15	Percentage of total working expenses upon total earnings ... Per cent.	70.25	
16	Percentage of total working expenses upon total earnings, excluding from both sides of the account the charges for carriage of Revenue Stores ... "	69.62	
(Inclusive of Steam Boat service.)			
17	Percentage of total working expenses on total earnings (for details see table No. VII.) ... "	70.25	
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.	83,317	
	Proportions, dividing expenditure in ratio of gross ton mileage (freight and dead load.) ... "		
19	Coaching ... "	87,194	
20	Goods ... "	26,123	

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

31st Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

Progressive Number.	HEADINGS.	REMARKS.
No. V. COACHING TRAFFIC.		
GROSS RECEIPTS AND TRAIN-MILEAGE—		
21	Receipts from coaching traffic ... Rs.	88,432
22	Coaching train miles run ... No.	47,013
23	Average coaching receipts per train-mile... Rs.	1.88
UNITS AND UNIT MILEAGE—		
Number of Units carried one mile.		
24	1st class ... Unit Miles.	16,583
25	2nd " ... "	84,534
26	3rd or Intermediate class ... "	
27	4th or Lowest class ... "	804,580
28	Total Passenger unit mileage ... "	8,116,697
29	Other coaching traffic ... Ton Miles.	6,932
Average sum received for carrying a unit one mile.		
30	1st class ... Pies.	12.00
31	2nd " ... "	4.00
32	3rd or Intermediate class ... "	
33	4th or Lowest class ... "	2.00
34	Average for all classes ... "	2.03
35	Other coaching traffic per ton mile ... "	68.80
Average number of units in a train.		
36	1st class ... No.	.35
37	2nd " ... "	1.16
38	3rd or Intermediate class ... "	
39	4th or Lowest class ... "	171.14
40	Total passenger units ... "	172.65
41	Other coaching traffic ... Tons.	.15
VEHICLES AND VEHICLE MILEAGE—		
Number of Coaching Vehicles hauled one mile.		
42	1st class ... Vehicle Miles.	23,749
43	2nd " ... "	47,497
44	3rd or Intermediate class ... "	
45	4th or Lowest class ... "	55,587
46	Other Vehicles ... "	71,375
47	Brake-vans ... "	
48	Total ... "	698,491
Average number of Vehicles in a coaching train.		
49	1st class ... No.	.51
50	2nd " ... "	1.01
51	3rd or Intermediate class ... "	
52	4th or Lowest class ... "	11.82
53	Other Vehicles ... "	1.52
54	Brake-vans ... "	
55	Total ... "	14.86
Average earnings per coaching vehicle per mile.		
56	1st class ... Pies.	8.38
57	2nd " ... "	4.60
58	3rd or Intermediate class ... "	
59	4th or Lowest class ... "	28.94
60	Other vehicles ... "	6.68
Carrying capacity hauled one mile (excluding brakes.)		
61	1st class ... Seats.	284,984
62	2nd " ... "	569,968
63	3rd or Intermediate class ... "	
64	4th or Lowest class ... "	16,676,100
65	Other vehicles ... Tons.	73,221
Percentage of freight upon capacity hauled.		
66	1st class ... Per cent.	5.82
67	2nd " ... "	9.57
68	3rd or Intermediate class ... "	
69	4th or Lowest class ... "	48.25
70	Other vehicles ... "	9.47

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

31 Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

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.	495,688
72	Dead-weight ... "	524,520
73	Total ... "	1,020,208
Average weight of a coaching train.		
74	Freight ... Tons.	10.54
75	Dead-weight ... "	111.57
76	Total ... "	122.11
COST OF WORKING AND PROFITS—		
77	Average cost of hauling a coaching train one mile ... Rs.	1.22
78	Average cost of hauling a coaching vehicle with its load one mile ... Pies.	15.72
Average cost of hauling a coaching unit one mile.		
79	Per passenger unit ... "	1.18
80	Other traffic per ton ... "	207.07
81	Average profit on working a coaching train one mile ... Rs.	.66
Average profit on working a coaching vehicle one mile.		
82	1st Class ... Pies.	7.34
83	2nd " ... "	11.12
84	3rd or Intermediate class ... "	
85	4th or Lowest class ... "	13.22
86	Other vehicles ... "	9.04
Average profit on working a coaching unit one mile.		
87	Per passenger unit ... Pies.	.85
88	Other traffic per ton ... "	138.27

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

31 Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

Progressive Number.	HEADINGS.	REMARKS.
No. VI. GOODS TRAFFIC.		
89	GROSS RECEIPTS AND TRAIN MILEAGE—	
90	Receipts from Goods Traffic ... Rs.	30,817
91	Goods Train-miles run ... No.	22,503
91	Average goods receipts per train-mile ... Rs.	1.37
UNITS AND UNIT MILEAGE—		
92	Tons of Goods carried one mile ... Ton Miles.	882,236
93	Average sum received for carrying a ton one mile ... Pies.	6.71
94	Average number of tons in a train ... Tons.	39.20
VEHICLES AND VEHICLE MILEAGE—		
95	Number of goods vehicles hauled one mile. Loaded ... Vehicle Miles.	249,248
96	Empty ... "	66,275
97	Brake-vans ... "	971
98	Total ... "	316,494
99	Average number of vehicles in a goods train. Freight vehicles ... No.	14.02
100	Brake-vans ... "	.04
101	Total ... "	14.06
102	Average earnings per goods vehicle per mile (excluding brakes) ... Pies.	18.75
103	Carrying capacity hauled one mile (excluding brakes) ... Tons.	182,228
104	Percentage of freight upon capacity hauled ... Per cent.	48.42
105	Average load of a goods vehicle (including both loaded and empty) ... Tons.	2.80
106	Average load of a loaded goods vehicle ... "	3.54
WEIGHT OF TRAIN AND TON MILEAGE—		
107	Gross ton mileage of all goods trains. Freight ... Ton Miles.	882,236
108	Dead-weight ... "	1,739,886
109	Total ... "	2,622,122
110	Average weight of a goods train. Freight ... Tons.	39.20
111	Dead-weight ... "	77.32
112	Total ... "	116.52
COST OF WORKING AND PROFITS—		
113	Average cost of hauling a goods train one mile ... Rs.	1.16
114	Average cost of hauling a goods vehicle with its load one mile ... Pies.	15.90
115	Average cost of hauling a goods unit (viz., one ton) one mile ... "	5.69
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 ... "	16.46
116	Average profit on working a goods train one mile ... Rs.	.21
117	Average profit on working a goods vehicle with its load one mile ... Pies.	2.85
118	Average profit on working a goods unit (viz., one ton) one mile ... "	1.02

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION. 31st Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

Progressive Number.	HEADINGS.	REMARKS.
No. VII. DETAILED PERCENTAGES OF EARNINGS AND EXPENDITURE.		
Percentage to Total Earnings—		
119	Coaching Traffic ... Per cent.	73.22
120	Goods Traffic ... "	25.51
121	Sundries, including Telegraph ... "	1.27
122	Steam-boat Earnings ... "	
	Total Earnings ... "	100.00
Percentage of Working Expenses upon Total Earnings—		
123	Maintenance ... Per cent.	26.79
124	Locomotive Expenses ... "	21.96
125	Carriage and Wagon Expenses ... "	5.77
126	Traffic Expenses ... "	8.64
127	General Charges ... "	6.64
128	Miscellaneous Charges ... "	.45
129	Steam-boat Expenses ... "	
130	Total Working Expenses ... "	70.25

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION. 31st Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

No. VIII.—Working Expenses.

TABLE A.

Maintenance of Way, Works and Stations.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	b.	c.	d.
Table and main-head.	Sub-head.			Per mile of line maintained.	Per mile of track including Sidings.	Per total Train-mile.	Per 1,000 gross ton miles.
				82.94	91.36	69.516	8,363.018
IX(A)	1 & 2	1	General Superintendence—				
			Engineers' Salaries and allowances	79.98	72.62	1.53	.79
			Subordinate Superintendents' salaries and allowances, including overtime	60.36	54.80	1.15	.60
			Office expenses	34.17	32.82	.69	.36
		131	Total...	176.51	160.24	3.37	1.75
			Maintenance and Renewal of Permanent Way—				
		2	Wages	122.69	111.39	2.34	1.22
			Materials	54.09	49.10	1.03	.53
		132	Total...	176.78	160.49	3.37	1.75
			Repairs of Bridges, &c.—				
3(A)		3	Wages and Materials—				
			Bridges and tunnels	.27	.24	.005	.003
			Miscellaneous	.33	.30	.006	.003
		133	Total...	.60	.54	.01	.01
			Conservancy of Rivers—				
		4	Repairs of Stations and Buildings—				
			Wages and Materials—				
			Repairs of all, except staff quarters	2.06	1.87	.04	.02
		135	Repairs of staff Quarters	7.37	6.69	.14	.07
			Total...	9.43	8.56	.18	.09
5		5	Maintenance by Contract—				
			Amount paid to Contractors...				
			Materials supplied by the Railway				
		136	Total...				
			New Minor Works—	9.58	8.70	.18	.10
		7	Unclassified Expenditure—				
			Plantations	1.59	1.44	.03	.02
			Tools and plant	8.58	7.79	.16	.08
			Loss by exchange				
			Loss on stores, &c.				
			Freight on Stores	7.08	6.43	.14	.07
			Total...	17.25	15.66	.33	.17
			Total Heads, 5, 6, and 7	26.83	24.36	.51	.27
		137	Less Credits				
			Net Total, Other Charges	26.83	24.36	.51	.27
			Total Maintenance	390.15	354.19	7.44	3.87

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION. 31st Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

No. VIII.—Working Expenses.—(contd.)

TABLE B.

Locomotive Expenses.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	b.	c.
Table and main-head.	Sub-head.			Per total Train-mile.	Per Engine mile.	Per 1,000 gross ton-miles.
				69.516	76.256	8,363.018
IX (B) 1	1 & 2	138	General Superintendence—	As.	As.	Rs.
	3 to 5		Salaries of Superintendents and Assistants, including allowances	.12	.10	.06
	6		Ditto of Subordinate ditto, including ditto	.20	.18	.10
			Office expenses	.16	.15	.09
			Total...	.48	.43	.25
			Running Expenses—			
	1 & 2	139	Wages of Drivers and Firemen, including overtime	.85	.78	.44
	3		Fuelling, cleaning and looking after engines	.11	.10	.06
	4		Contingent expenses	.01	.01	.01
			Total...	.97	.89	.51
3	1 to 4	140	Fuel.—(In terms of coal)	Rs.	Rs.	Rs.
			Average quantity consumed	18.63	16.99	154.88
			Average price per ton Rs. 17.25 16.59			
			Do. cost	2.21	2.01	1.14
		141	Water.—(Including wages and Stores)	.09	.09	.04
		142	Oil, Tallow and other Stores	.17	.16	.09
			Maintenance and Renewals—			
	1 & 2	143	Wages including overtime	.76	.69	.40
	3		Materials	.55	.50	.28
			Total...	1.31	1.19	.68
7			New Minor Works—			
			Payments to other lines			
			Unclassified Expenditure—			
	1	9	Loss by exchange	.71	.65	.37
	2		Loss on Stores, &c.	.01	.01	.01
	3		Freight on Stores	.20	.18	.10
			Total...	.92	.84	.48
			Total Heads, 7, 8 and 9	.92	.84	.48
			Less Credits	.04	.04	.02
		144	Net Total, Other Charges	.88	.80	.46
		145	Total, Locomotive Expenses	6.11	5.57	3.17

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 31st Dec 30th June, 1889.

No. VIII.—Working Expenses.—(contd.)

TABLE C.

Carriage and Wagon Expenses.

Reference to Revenue Account.		Progressive number in Analysis.	DETAILS.	a.	Per 1,000 gross ton miles.	
Table and main-head.	Sub-head.			Per total Train-mile.	d.	
IX (C) 1	1	146	General Superintendence—	8.16	8,363.08	
			Salaries of Superintendents, including allowances ...	Rs.	Rs.	
			Ditto of Subordinate ditto, including ditto ...	1.53	.79	
			Office expenses	1.15	.60	
				Total...	.69	.36
			Repairs and Renewals of Vehicles and Machinery—	.37	1.75	
	2	147	Coaching Vehicles { Wages including overtime ...	.34	1.22	
			{ Materials	.03	.53	
				Total...	.37	1.75
	3	148	Goods Vehicles { Wages including overtime ...	.005	.003	
			{ Materials	.006	.003	
			Total...	.01	.01	
4	149	Cleaning and Oiling—				
		Labour, including wages of Oilers, &c. ...				
		Stores				
		Total...	.04	.02		
				.14	.07	
		New Minor Works—	.18	.09		
5	150	Unclassified Expenditure—				
		Loss by exchange				
		Loss on Stores, &c.				
		Freight on Stores	.18	.10		
			Total...	.03	.02	
		Total Heads, 4 and 5	.16	.08		
		Less Credits	.14	.07		
		Net Total, Other Charges	.33	.17		
			.51	.27		
		151 Total, Carriage and Wagon Expenses	.51	.27		
			.44	3.87		

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION. 31st Dec.

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

No. VIII.—Working Expenses.—(contd.)

TABLE D.

Traffic Expenses.

Reference to Revenue Account.		Sub- head.	Progressive num- ber in Analysis.	DETAILS.				a.	b.	
Table and main-head.				Per total Train Mile.	Per cent of Traffic earnings Abstracts H. and I.					
								69.516	119,249	
								Rs	Percent	
IX (B) 1	1	1 & 2 3 to 5 6	General Superintendence—							
			Traffic Manager, Assistants, &c., including travelling allowances				.18	.66		
			Office establishment and contingencies				.11	.40		
			Total...				.29	1.06		
	2	1 & 2 3 4	Station Staff				1.15	4.20		
			Train Staff				.23	.84		
			Fuel, Lighting, Water and General Stores				.24	.89		
			Clothing				.09	.32		
	3	1 to 4	Printing, Stationery and Tickets				.23	.83		
			Charges for delivery and Collection of goods, &c.				.0002	.001		
			Miscellaneous Expenses				.02	.06		
			Payments to other Lines—							
6	1 & 2 3	Expenses at joint Stations				.01	.04			
		Unclassified Expenditure—								
		Loss by exchange				.12	.43			
		Loss on Stores, &c.				.001	.005			
9	1 2 3	Freight on Stores				.03	.10			
		Total Head, 8				.151	.535			
		Less Credits				.01	.02			
		Net Total, Other Charges				.14	.51			
				Total Traffic Expenses				2.40	8.75	

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION. 31st Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

No. VIII.—Working Expenses.—(contd.)

TABLE E.

General Charges.

Reference to Revenue Account.		Progressive num- ber in Analysis.	DETAILS.					a.	b.	
Table and Main-head.	Sub- head.							Per total Train- Mile.	Per cent on total earnings.	
									69,516	12,0780
									Rs	Percent
IX (E) 1	1 to 4	163	Home Expenditure	...	...	...	...	.31	1.10	
			Indian Management—							
	1	164	Agent's Office, including travelling allowances and contingencies...					.19	.69	
	2		Auditor's office,	ditto	ditto	}	...	.46	1.65	
	3		Accounts office,	ditto	ditto					
	4		Paymaster's office,	ditto	ditto					
		165	Total 2 to 4	...	...	...	...	.46	1.65	
	5	166	Store Department,	ditto	ditto		...	.37	1.32	
	6	167	Medical Department,	ditto	ditto		...	.14	.51	
	7		Rents	...	...	...	...	.0003	.001	
	8 to 10		Miscellaneous expenses, including, printing, stationery and medicine					.10	.35	
		168	Total 7 to 10					.10	.35	
	1 to 3	169	Police	...	...	...	...			
	4	170	Advertising	...	...	...	...	.01	.03	
			Electric Telegraph—							
	1 to 4		Salaries, &c.	...	...	...	...	.23	.83	
	5		Maintenance (Wages and Stores)	...	...	...	...	.005	.02	
	6		Government Telegraph Department, for rent, maintenance and inspection	...	...	...	...	.17	.64	
		171	Total...					.405	1.49	
			Clearing Accounts, with other lines—							
			Unclassified Expenditure—							
	1		Loss by exchange	...	...	...	...	.14	.52	
	2		Loss on Stores, &c.	...	...	...	...	.0005	.002	
	3		Freight on stores	...	...	...	...	.0003	.001	
			Total...					.141	.523	
			Total Heads, 6 and 7					.141	.523	
			Less Credits					.001	.004	
		172	Net Total, Other Charges					.14	.52	
		173	Total General Charges					1.85	6.64	

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION. 31st Decr

ANALYSIS OF WORKING.—(contd.)—HALF-YEAR ENDED 30th June, 1889.

No. VIII.—Working Expenses.—(contd.)

TABLE F.

Steam Boat Service.

Reference to Revenue Account.		Progressive Number in Analysis.	DETAILS.			Per cent. on Steam boat earnings.
Table and main-head.	Sub-head.					
IX (F)	...		Working Expenses—			Per cent.
	1		Salaries and allowances of Officers and crews			
	2		Loading and unloading vessels			
	3		Pilotage fees			
	4		Contingencies			
			Repairs—			
	1		Wages			
	2		Materials			
	3	1 to 5	Fuel			
	4		Miscellaneous Stores			
	5	1 & 2	Steam Traffic Agencies			
	6		New Minor Works			
	7	1 to 6	Miscellaneous Expenditure			
			Total			
			Less Credits			
			Total Steam Boat Expenses			

TABLE G.

Special and Miscellaneous Expenditure.

Reference to Revenue Account.		Progressive Number in Analysis.	DETAILS.					Per cent. on Total earnings.
Table and main-head.	Sub- head.							
								120780
								Percent
IX (G) 1	...	174	Law Charges—	...	...	...	...	.001
			Compensation—					
	1		For goods lost or damaged	...	...	...	...	.08
2	2		„ Personal injury...	...	...	...	...	
	3		„ Other claims	...	...	...	...	
		175					Total...	.08
3	...	176	Rates and Taxes	...	...	...	...	.29
			Payments to other Lines—					
	1	...	Hire of Locomotives	...	...	...	...	
	2	...	„ of Vehicles	...	...	...	...	
4	3	...	Mileage of foreign stock	...	...	...	...	
	4	...	Rent of stations, &c., jointly occupied	...	...	...	...	.04
		177					Total..	.04
5	...	...	Contributions to Special Funds (in detail)	...	...	...	...	
6 to 8	...	...	Miscellaneous	...	...	...	...	.04
			Total Heads, 5 to 8	...	...	...	...	.04
			Less Credits	...	...	...	...	
		178	Net Total, Other Charges	...	...	...	...	.04
		179	Total Special and Miscellaneous Expenses	...	...	...	...	.45

WILLIAM S. BETTS,
Agent.

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

APPENDICES TO ANALYSIS OF WORKING.

31st Decr
 HALF-YEAR ENDED 30th June, 1889.

APPENDIX I.

Working of Locomotives.

Reference to Revenue Account.	Table & main head.	Sub-head.	F. CLASS STATE RAILWAY TYPE.
XII	5	1—Number of Locomotives erected and made over to Locomotive Department	10
	11	2—Average number of Locomotives constantly under repairs and renewals	185
		3—Number of Locomotives laid by as spare	
		4—Ditto lent or hired out to other lines	
		5—Average number of Locomotives 1—(3+4)	10
		6—Total mileage of Locomotives (5)	76,256
		7—Average miles run by a Locomotive of each class 6÷5	7,626
		Per diem.	41.45
		8—Weight of coal, &c., used per Engine mile	165
		9—Weight of wood used per Engine mile	25.76
		<i>To be separated if possible among the classes of Locomotives</i>	
		10—Average gross weight of trains hauled	112.60
		11—Average speed between Stations	45.59
		12—Average through speed	89.44
		13—Average Consumption of coal per Engine mile	16
			12 1/4
			24.47
			27.93
			87.50

APPENDIX II.

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

APPENDICES TO ANALYSIS OF WORKING.—(contd.)

HALF-YEAR ENDED 30th June, 1889.

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	23749	284984	124680	
Second class	47497	569968	249362	
Third or Intermediate class				
Fourth or Lowest class	555870	16676100	2787249	
Total Passenger vehicles	627116	17531052	3161291	
Other coaching vehicles	71375	73221	541891	
Total paying coaching mileage	698491		3703182	
Passenger brake-vans				
Total coaching mileage, including brakes	698491		3703182	
<i>Goods--</i>				
Loaded vehicles	249248	1438239	789506	
Empty do.	66275	383909	207371	
Total paying goods mileage	315523	1822228	996877	
Goods brake-vans	971		4911	
Total goods mileage, including brakes	316494	1822228	1001788	
<i>Miscellaneous--</i>				
Free Mileage for inspection, &c.	1588		8807	
GRAND TOTAL...	1016573		4713777	

SOUTH INDIAN RAILWAY.

NELLORE—TIRUPATI SECTION.

APPENDICES TO ANALYSIS OF WORKING.—(continued.)

HALF-YEAR ENDED ~~30th~~ ^{31st} ~~JUNE~~ ^{Decr}, 1889.

APPENDIX IV.

Maintenance of Way.

RAILS.

	DETAILS.						IRON.		STEEL.		Total.	Total Iron and Steel.
1	Miles of rail in way, including sidings	...	...	...	...	...						
2	Average age of rails in way at the middle of the half-year	...	...	...	...	years...						
3	Rails renewed	...	...	...	...	Miles...						
4	Proportion renewed per mile of rail (1)	...	...	...	...	...						
5	Average number of tons hauled over each kind of rail in the half-year	...	...	...	...	...						
6	Thousands of tons hauled on an average over each kind of rail during the average age of rail in way (2)	...	...	...	...	...						

NELLORE—TIRUPATI SECTION.

Decy

Maintenance of Way.

SLEEPERS.

* Exclusive of teak wood sleepers on bridges and at points and crossings

William B. B. 21st

RAILWAY.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated June, 3rd.

Recd.

Encl.

G.O., 3rd June 1890, Nos. 767 R.,
768 R.

JUNE.

**Nellore Branch of the
Villupuram-Guntakal State
Railway**

Analysis of Working.—Forwarding copy
of Proceedings embodying the — for the
second half of 1889.

of Nellore & the State

Net increase ...

3432

3RD JUNE 1890, No. 767 R., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper :—

From the Consulting Engineer for Railways, dated Madras, 12th May 1890, No. 335.

Ten copies of the Analysis of Working, Nellore branch of the Villupuram-Guntakal State Railway, for the half-year ended the 31st December 1889.

Submitted to Government for transmission to the Director-General of Railways, with reference to letter from the Government of India, No. 204 R.E., dated 23rd March 1888, embodied in the Proceedings of Government, No. 274 R., dated 6th April 1888.

ORDER—dated 3rd June 1890, No. 767 R., Public Works.

Ordered to be forwarded to the Director-General of Railways and to the Secretary of State.

(Here enter No. 768 R., dated 3rd June 1890.)

(True Extract.)

(Signed) SIDNEY SMITH, Major, R.E.,
Under-Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways.
„ Examiner, Guaranteed Railway Accounts.

ENDORSEMENT—dated 3rd June 1890, No. 768 R., Public Works.

Forwarded.

(By Order.)

Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

Exd. J. Moses.
Spare Copies