

Public Works (1899) Department.

RAILWAY BRANCH.

G.O., No. 154 Rg.

DATED 9th February 1899.

[Despatch Abstract.]

Review on the Capital and Revenue Accounts
S. D. Rg.

Coming: to the Agent, letter from the Govt
of India forwarding copies of a — (including
the Mayawaram - Muthpet, Pondicherry and Karaikkal
Peralam Railways) for the half-year ending
the 30th June 1898.

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

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OF THE

for the half-year ending with the 30th June 1898.

The mean length of railway worked was 1,112·08 miles against 1,103·38 miles in the previous corresponding half-year. The increase was due to the opening of the Káraikkal-Peralam railway (14·45 miles) on the 14th March 1898. The total capital outlay, including suspense, on the mileage open to traffic to the 30th June 1898, was Rs. 8,03,94,546 against Rs. 7,99,81,555 to the 30th June 1897.

2. The gross earnings from all sources decreased from Rs. 47,75,363 in the first-half of 1897 to Rs. 44,95,037 in the half-year under review, or 5·87 per cent. The Gross earnings. earnings under coaching decreased from Rs. 26,99,961 to Rs. 24,35,964, and under goods from Rs. 19,71,999 to Rs. 18,76,382, while under miscellaneous they rose from Rs. 1,03,403 to Rs. 1,82,691.

The gross earnings per mean mile worked per week were Rs. 155 against Rs. 166 in the first-half of 1897.

3. The number of passengers booked decreased from 7,148,907† to 6,577,232† or 8·00 per cent.; but owing to a decrease in the average distance travelled by a passenger from 33·42 miles in the first-half of 1897 to 32·28 miles in the half-year under review, the passenger unit-mileage decreased 11·12 per cent. and the earnings from passenger traffic from Rs. 25,64,761 to Rs. 22,88,878 or 10·76 per cent. The number of passengers carried one mile per mean mile worked was 193,816 as compared with 218,065† in the previous corresponding period.

The decrease in the passenger earnings was almost wholly under third class passengers, and was partly due to less attendance at the important annual festivals at Srirangam, Chidambaram and Conjeeveram during the half-year under review, on account of the plague precautionary measures and of the unfavourable season, but chiefly to the fact that during the first-half of 1897, the passenger traffic was abnormal, owing to the Mohamagam festival at Kumbakonam, which occurs once in twelve years.

4. The earnings from this source increased from Rs. 1,24,518 to Rs. 1,32,441, chiefly under "Parcels."

5. The weight of goods lifted was 820,176½ tons against 696,276½ tons in the first-half of 1897, an increase of 17·79 per cent.; but as the average lead of goods fell from 62·87 miles to 51·46 miles, the ton-mileage decreased 3·58 per cent. and the total earnings, which were Rs. 18,68,815 against Rs. 19,64,531, showed a decrease of 4·87 per cent. The number of tons of goods carried one mile per mean mile worked was 38,526 as compared with 39,954 in the previous corresponding half-year.

* Excluding the Karaikkal-Peralam and Pondicherry railways, for which information is not available.

† The number of passengers and tonnage of goods interchanged between the different railways forming the system are counted twice over, as the figures for the two sections are given separately in the half-yearly capital and revenue accounts.

‡ Revised figure.

The principal variation was a decrease of Rs. 1,05,783 under "Merchandise, general."

The decrease under "Merchandise, general," was due to the following causes: Decrease of 51,808 tons and Rs. 1,12,278 under "Grain and pulse," due to a poor rice crop in the North Arcot, Tanjore, Trichinopoly, Madura and Tinnevely districts; of 13,808 tons and Rs. 33,418 under "Railway plant and rolling stock," due to the exceptionally heavy traffic in rails, girders and sleepers carried for the Bezvada-Madras railway during the previous corresponding half-year; and of 2,909 tons and Rs. 13,625 under "Salt," due to the carriage of salt from Tuticorin into the interior districts by country carts, as a large number of bullocks were set free from cultivation for want of rain; and an increase of 3,109 tons and Rs. 67,534 under "All other articles of merchandise," due to an increase in the traffic in coconuts owing to better crops in the Tanjore and Trichinopoly districts, and also in cotton seeds, fibre, plantains, and oil-cakes.

6. The earnings from this source increased from Rs. 1,03,403 to Rs. 1,82,691. The increase was mainly under "Hire of locomotives and vehicles," "Rent of joint stations" and "Amount transferred from stock adjustment account."

7. The working expenses amounted to Rs. 24,13,604 against Rs. 24,81,930 in the previous corresponding period.

The principal decreases were Rs. 75,886 under "Maintenance of way, works and stations" and Rs. 9,567 under "Carriage and wagon expenses." The decrease under "Maintenance of way, works and stations" was chiefly due to a falling off in the ordinary renewals of permanent way, only one mile being renewed with 50 lb. rails during the half-year under review against 6.39 miles renewed in the first-half of 1897, to less repairs to bridges and tunnels owing to difficulty experienced in obtaining sleepers, as well as to less repairs to stations and buildings, owing to the fact that the previous corresponding period included the outlay incurred on special repairs to stations and buildings; and that under "Carriage and wagon expenses," chiefly due to less renewals with Jones' buffers and smaller repairs to goods vehicles during the half-year under review.

8. The net earnings amounted to Rs. 20,81,433 against Rs. 22,93,433, giving a percentage for the half-year on total capital outlay on open line of 2.59 as compared with 2.87 in the previous corresponding half-year.

9. The statements appended to this review show:

(i) the results of working the South Indian railway (including the Mayavaram-Mutupet, Pondicherry and Karaikkal-Peralam railways) during the first-half of each of the years 1893 to 1898, as compared with the results of working the Bengal and North-Western railway (including the Tirhoot section) during the first-half of 1898 and the Eastern Bengal State railway, metre gauge section (including the Kaunia-Dharlla, 2' 6" gauge, branch) during the second-half* of 1897;

(ii) the cost of the several departments on the South Indian railway (including the Mayavaram-Mutupet, Pondicherry and Karaikkal-Peralam railways) during the first-half of each of the years 1893 to 1898, as compared with the Bengal and North-Western railway (including the Tirhoot section) during the first-half of 1898 and

* The second-half of the year has been taken for purposes of comparison, as that is the busy season on this line as is the first-half of a year on other lines.

the Eastern Bengal State railway, metre gauge section (including the Kaunia-Dharlla, 2' 6" gauge, branch) during the second-half* of 1897.

10. From the first statement it will be observed that the percentage of working expenses on gross earnings, 53.70, was lower than in any previous half-year except the first-half of 1897.

The percentage of freight upon capacity hauled, lowest class, 49.71, was the lowest recorded in the statement, due to a decrease of 5.72 per cent. in the passenger train mileage against a decrease of 10.92 per cent. in the passenger unit-mileage.

11. From the second statement it will be seen that the total maintenance expenses were lower than in any of the five previous corresponding half-years, and was due to the cause explained in paragraph 7 ante.

The percentage of empty home vehicle-mileage on total vehicle-mileage on home line, 9.84, was the lowest recorded in the statement.

* The second-half of the year has been taken for purposes of comparison, as that is the busy season on this line as is the first-half of a year on other lines.

Statement No. I.

Statement comparing the results of working the South Indian railway (including Mayavaram-Mutpet, Pondicherry and Karaikkal-Peralam railways) during the first-half of each of the years 1893 to 1898, also comparing the results with the Bengal and North-Western railway (including Tirhoot section) during the first-half of 1898, and the Eastern Bengal State railway, metre gauge section (including Kaunia-Dharlla, 2' 6" gauge, branch) during the second-half (a) of 1897.

Item numbers of analysis.	Particulars.	SOUTH INDIAN RAILWAY (INCLUDING MAYAVARAM-MUTPET, PONDICHERY AND KARAIKKAL-PERALAM RAILWAYS).						BENGAL AND NORTH-WESTERN RAILWAY (INCLUDING TIRHOOT SECTION).	EASTERN BENGAL STATE RAILWAY, METRE GAUGE SECTION (INCLUDING KAUNIA-DHARLLA, 2' 6" GAUGE, BRANCH AND DACCA SECTION).
		(b)							
		1st-half, 1893.	1st-half, 1894.	1st-half, 1895.	1st-half, 1896.	1st-half, 1897.	1st-half, 1898.		
2	Mean mileage worked ... Miles	1,050.01	1,076.16	1,103.3	1,103.38	1,103.38	1,112.08	851.69	564.12
...	Capital outlay ... Rs.	7,56,70,067	7,85,96,970	7,92,02,208	7,96,81,196	7,99,81,555	8,03,94,546	6,05,72,641	4,76,56,196
Results.									
...	Gross earnings (including steam-boat) ... Rs.	(f) 42,47,884	(f) 39,15,852	45,80,835	47,40,898	47,75,363	44,95,037	35,98,130	32,42,007
...	Gross earnings (excluding steam-boat) ... Rs.	(f) 42,47,884	(f) 39,15,852	45,80,835	47,40,898	47,75,363	44,95,037	33,34,116	29,44,508
...	Working expenses ... Rs.	(f) 25,15,789	(f) 24,13,128	24,68,418	26,82,942	24,81,930	24,13,604	13,32,603	12,18,423
...	Net earnings ... Rs.	(e) 17,32,095	(e) 15,02,724	21,12,417	20,57,956	22,93,433	20,81,433	22,65,536	20,24,256
...	Train-mileage ... Train-miles.	(e) 1,637,671	(e) 1,563,400	1,693,991	1,736,500	1,813,382	1,707,109	1,150,366	868,324
...	Total train-mileage per mean mile worked... Coaching.	677	690	720	708	930	870	603	652
...	Goods.	882	763	815	866	713	665	748	887
...	Total ...	1,559	1,453	1,535	1,574	1,643	1,535	1,351	1,539
6	Percentage of net earnings (including steam-boat) on capital outlay ... Per cent.	(c) 2.29	1.91	2.67	2.58	2.87	2.59	3.78	4.24
17	Percentage of working expenses on gross earnings (including steam-boat) ... Per cent.	59.22	61.63	53.89	56.59	51.97	53.70	37.04	37.57
General.									
9	Gross earnings (excluding steam-boat) per mean mile worked per week ... Rs.	156	140	160	165	166	155	151	201
Coaching.									
53	Average sum received for carrying a unit one mile - lowest class ... Pies.	2.00	2.00	2.00	1.99	2.00	1.99	2.00	2.50
79	Average cost of hauling a coaching unit one mile, per passenger unit ... Pies.	0.93	1.01	0.90	0.92	0.92	1.02	0.66	0.96
23	Coaching earnings per train-mile ... Rs.	3.08	2.84	3.07	3.26	2.63	2.52	2.53	2.71
77	Average cost of hauling a coaching train one mile ... Rs.	1.48	1.48	1.43	1.56	1.25	1.28	0.76	.92
69	Percentage of freight upon capacity hauled, lowest class ... Per cent.	57.36	52.90	56.32	55.46	51.39	49.71	45.32	44.15
Goods.									
...	Average sum received for carrying a ton of merchandise, general, one mile ... Pies.	8.28	8.27	9.13	8.82	(d) 9.43	(g) 9.41	6.00	(i) 10.30
...	Average sum received for carrying a ton of coal (public) one mile ... Pies.	4.84	(h) 4.50	(h) 5.21	(h) 7.71	(d) & (h) 6.39	(g) 7.21	3.91	(s) 4.57
93	Average sum received for carrying a ton of goods including stores and coal carried both for capital works and revenue one mile ... Pies.	7.62	7.66	8.21	7.88	8.63	8.5	5.61	11.07
115	Average cost of hauling a ton of goods (including stores and coal) one mile ... Pies.	5.39	5.47	5.04	5.19	4.81	4.74	1.99	3.93
91	Goods earnings per train-mile ... Rs.	2.16	2.13	2.33	2.23	2.51	2.54	2.08	3.84
113	Average cost of hauling a goods train one mile ... Rs.	1.33	1.53	1.43	1.47	1.40	1.42	1.05	1.36
104	Percentage of freight upon capacity hauled ... Per cent.	50.93	50.53	61.80	50.86	48.70	50.93	52.72	41.93
Miscellaneous.									
119	Percentage of coaching traffic on gross earnings... Per cent.	51.37	53.72	53.24	53.74	56.54	54.19	56.11	59.70

- (a) The second-half of the year has been taken for comparison as that is the busy season on this line, as is the first-half of a year on other lines.
 (b) Including the Mayavaram-Mutpet railway from the first-half of 1894 and the Karaikkal-Peralam railway from the first-half of 1898.
 (c) South Indian railway only.
 (d) Excluding the Pondicherry railway.
 (e) Including interest on capital during construction.
 (f) Including the amount received for working the Pondicherry railway.
 (g) Excluding the Pondicherry and Karaikkal-Peralam railways.
 (h) No coal was carried for the public on the Mayavaram-Mutpet railway.
 (i) Entire system.

Statement No. II.

Statement showing the cost of the several departments on the South Indian railway (including Mayavaram-Mutpet, Pondicherry and Karaikkal-Peralam railways) during the first-half of each of the years 1893 to 1898, in comparison with the cost on the Bengal and North-Western railway (including Tirhoot section) for the first-half of 1898, and the Eastern Bengal State railway, metre gauge section (including Kaunia-Dharlla, 2' 6" gauge, branch) for the second-half of 1897.

Principal headings.		SOUTH INDIAN RAILWAY (INCLUDING MAYAVARAM-MUTPETT, PONDICHERY AND KARAIKKAL-PERALAM RAILWAYS).						BENGAL AND NORTH-WESTERN RAILWAY (INCLUDING TIRHOOT SECTION).	EASTERN BENGAL STATE RAILWAY, METRE GAUGE SECTION (INCLUDING KAUNIA-DHARLLA, 2' 6" GAUGE, BRANCH AND DACCA SECTION).
		1st-half, 1893.	1st-half, 1894.	1st-half, 1895.	1st-half, 1896.	1st-half, 1897.	1st-half, 1898.	1st-half, 1898.	2nd-half, 1897.*
	Total gross ton-mileage ... Ton-miles.	259,674,738	245,991,242	271,357,344	287,327,857	286,996,068	271,987,443	227,594,675	150,837,509
	MAINTENANCE OF WAY, WORKS AND STATIONS ... Miles	1,050.01	1,076.16	1,103.38	1,103.38	1,103.38	1,117.83	851.69	564.12
	Mean mileage maintained... Miles.	1,163.08	1,203.69	1,242.19	1,244.18	1,244.41	1,261.23	995.15	656.93
	Total miles of track, including sidings ... Miles.								
	Maintenance and renewal of permanent-way.								
132-b	Per mile of track, including sidings ... Re.	407.04	338.89	252.93	396.39	290.75	246.87	190.12	211.99
	Total maintenance expenses.								
137-a	Per mean mile of line maintained ... Re.	609.74	528.20	480.13	500.78	503.25	428.86	414.88	568.17
137-b	Per mile of track, including sidings ... Re.	548.11	472.24	426.47	523.92	446.21	380.10	362.35	487.90
137-c	Per 1,000 gross ton-miles ... Re.	2.46	2.31	1.95	2.27	1.93	1.76	1.55	2.12
137-d	Per cent. on gross earnings ... Per cent.	15.03	14.18	11.56	13.75	11.63	10.68	9.82	9.83
	LOCOMOTIVE EXPENSES.								
	Fuel, average price, ... Re.	14.63	13.80	18.10	18.91	14.46	14.49	5.96	7.11
	Per ton ...								
	Fuel, average quantity consumed (in terms of coal) ... lbs.	35.14	35.22	28.90	29.03	53.51	32.12	30.70	27.77
	Per train-mile ... lbs.	221.63	223.82	180.40	175.46	211.80	201.60	155.18	159.84
	Per 1,000 gross ton-miles ... lbs.								
	Total locomotive expenses.								
145-a	Per train-mile ... Annas.	9.38	8.63	8.64	8.94	7.67	8.17	4.09	4.73
145-c	Per 1,000 gross ton-miles ... Re.	3.69	3.43	3.37	3.38	3.03	3.20	1.29	1.70
	Per cent. on gross earnings ... Per cent.	22.54	21.48	19.97	20.46	18.21	19.39	8.16	7.92
124	Total locomotive expenses, excluding cost of fuel.								
	Per 1,000 gross ton-miles ... Re.	2.24	2.05	1.91	1.90	1.66	1.90	0.88	1.20
	Average miles run per locomotive per diem ... Miles.	53.22	49.93	54.40	55.44	58.77	54.28	59.31	68.06
	Percentage of locomotives constantly under repairs on the total stock on the list ... Per cent.	14.31	16.60	18.80	18.35	18.72	16.39	8.96	14.90
	CARRIAGE AND WAGON EXPENSES.								
	Total vehicle-miles run by home vehicle ... Vehicle-miles.	30,934,240	28,616,035	30,159,195	31,568,680	35,379,846	32,826,840	31,265,989	21,840,670
	Total carriage and wagon expenses.								
151-b	Per 1,000 vehicle-miles run by home vehicles ... Re.	8.21	11.08	10.26	10.13	7.76	8.07	2.51	3.54
	Per cent. on gross earnings ... Per cent.	5.97	8.08	6.76	6.75	5.75	5.90	2.18	2.33
125	Percentage of 3rd or lowest class coaching vehicles constantly under repairs on the total stock on the list ... Per cent.	15.19	14.53	8.91	38.54	115.41	18.24	117.03	17.14
	Percentage of goods stock constantly under repairs on the total stock on the list ... Per cent.	6.45	7.42	10.54	6.11	9.61	4.42	3.87	3.58
	TRAFFIC EXPENSES.								
	Station and train staff.								
189-a	Cost of station staff per total train-mile ... Annas.	1.43	1.62	1.56	1.56	1.59	1.71	1.31	2.09
154-a	Cost of train staff per total train-mile ... Annas.	0.31	0.32	0.33	0.34	0.38	0.41	0.45	0.49
	Total traffic expenses.								
162-a	Per total train-mile ... Re.	3.23	3.64	3.51	3.43	3.68	3.85	3.20	4.31
	Per 1,000 gross ton-miles ... Re.	1.29	1.44	1.37	1.31	1.45	1.51	1.01	1.55
	Percentage of traffic expenses on gross earnings (excluding steam-boat) ... Per cent.	7.88	9.06	8.11	7.97	8.74	9.15	6.90	7.94
	GENERAL CHARGES.								
173-b	Per total train-mile ... Annas.	2.39	3.04	2.91	3.03	2.83	3.01	2.61	2.20
	Percentage of general charges on gross earnings (excluding steam-boat) ... Per cent.	6.95	7.53	6.74	6.95	6.73	7.15	5.63	4.03
	APPENDIX II OF ANALYSIS.								
	Percentage of empty home vehicle-mileage on total home vehicle-mileage on home line ... Per cent.	15.05	13.97	13.76	14.84	11.80	9.84	19.73	22.06

taken for comparison as that is the busy season on this line, as is the first-half of a year on other

the first-half of 1893.

- * The second-half of the year has been taken for comparison as that is the busy season on this line, as is the first-half of a year on other lines.
 † Including the Mayavaram-Mutpet railway from the first-half of 1894 and the Karaikkal-Peralam railway from the first-half of 1898.
 ‡ Excluding composites.

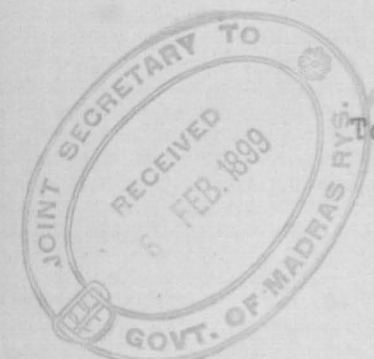
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GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY STATISTICS

All communications
should be addressed
to the Secretary.



The Joint Secretary to the Government of Madras,
Public Works Department, Railway Branch.

Simla, the 31st January 1899.

Sir,

In acknowledging the receipt of the Capital and
Revenue Accounts of the South Indian and the Mayavaram-
Mutupet Railways for the first-half of 1898, and the notes
thereon by the Chief Auditor, forwarded with your Nos. 1189 Ry.
and 1245 Ry. dated the 29th September and 11th October 1898
respectively, and Nos. 1382 Ry. and 1384 Ry. dated the 10th
November 1898, I am directed to forward herewith 12 copies
of a Review on the accounts.

I have the honour to be,

Sir,

Your most obedient servant,

W. McCreery Captain, R.E.,
Offg. Under Secretary

Documents accompanying :-

12 copies of the Review referred to.

A.R.K. *x*

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Ry. No. 183/99