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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1638	Press
303-304	Mis.
Dated 17-6-	1871.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
17th June 1871.*

No. 303. Read the following Circular from the Government of India, Public Works Department, (Establishment—Railway,) dated Simla, 4th May 1871, No. 4-R. :—

READ again—

Returns of Casualties among the European and East Indian employés on Railways during the first half of 1870.

Read—

Returns of Casualties among the European and East Indian employés on Railways during the second half of 1870.

Read also the following office note thereon :—

The average number of Europeans and of East Indians employed on Railways throughout India during the second half of 1870 were 3,759 and 1,708 respectively, against 3,865 of the former and 1,707 of the latter, during the preceding half-year.

2. The casualties among these, as compared with those that took place in the two preceding half-years, were as follow :—

	Second half, 1869.	First half, 1870.	Second half, 1870.
Died	71	59	52
Resigned and discharged ...	506	639	581
Dismissed	334	379	391
Total...	911	1,077	1,024

The total casualties were thus at the rate of 37 per cent. per annum, as against 38 per cent. per annum in the preceding half-year, and 34 in the corresponding period of 1869.

3. In Madras and Bombay there was a decrease in the number of casualties in the face of an increase in the number of employés, the more particularly so on the principal Railway in each Presidency; while, in Bengal, the reverse of the above was the result, there being a considerable increase in the number of casualties in spite of a considerable decrease in the number of servants. This will explain the difference in the per-centages below, as compared with the preceding half-year's per-centages :—

	Per-centage of Casualties in all Departments.	
	First half, 1870.	Second half, 1870.
Madras	12.3	8.3
Bombay	21.6	14.9
Bengal	19.9	24.5

4. The increase in the casualties in Bengal was on the East Indian, Eastern Bengal, and Oudh and Rohilkhund Railways, while the decrease in the number of employés was almost entirely confined to the East Indian Railway.

The decrease in the casualties on the Madras and Bombay Railways as well as the increase on the Bengal Railways was chiefly among those who resigned or were discharged.

5. The casualties on the three principal Railways, compared with the preceding half-year's casualties, were as follow :—

	Per-centage of Casualties in all Departments.	
	First half, 1870.	Second half, 1870.
Madras Railway	10.5	8.0
Great Indian Peninsula Railway ...	19.5	14.9
East Indian Railway	17.8	23.3

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6. Not only did the number of employes on the East Indian Railway decrease from 2,247 to 1,946, but it would appear from the following statement that a re-distribution had taken place in the Locomotive Department, if the returns for the first and second half of 1870 are accurate :—

Number of employes in the Locomotive Department of the East Indian Railway.

	ENGAGED IN ENGLAND.		ENGAGED IN INDIA.	
	Drivers, etc.	Others.	Drivers, etc.	Others.
First half, 1870	170		1,019	29
Second half, 1870	97	76	529	266

Thus the number of men employed on engines seems to have decreased nearly 50 per cent. This may be due to greater accuracy in the preparation of the returns, or to the more extensive employment of Natives on working engines.

7. In the Engineering Department of the Eastern Bengal Railway, out of 29 European and 18 East Indian employes, there were 24 casualties among the former, and 8 among the latter. Of these casualties 21 of the former and 5 of the latter were from dismissal.

In the same department of the Oudh and Rohilkhund Railway Company, out of 122 Europeans and 33 East Indians, there were 25 and 13 casualties respectively; 17 of the former and 5 of the latter being from dismissal.

8. The Punjab and Delhi Railways employ a larger proportion of Europeans than any other line, there being 403 of them and only 16 East Indians. None of the latter are employed in the Traffic or Locomotive Departments.

9. Taking the whole of the employes on all Railways, the yearly per-centage of casualties of all kinds was 40.2 amongst the Europeans, and 31.4 amongst the East Indians. In the preceding half-year the per-centages were 42.4 and 29.9, respectively. The yearly per-centage of casualties by dismissal alone was 16.6 among Europeans and 9.4 among East Indians, against 16.4 and 7.2, respectively, in the first half of 1870.

10. The casualties from resignation and discharge were highest on the East Indian and Bombay, Baroda, and Central India Railways, and from dismissal on the Eastern Bengal, Oudh, and Rohilkhund, and Punjab and Delhi Railways. The casualties on the Eastern Bengal Railway were 35.9 per cent. of the Europeans, and 34.2 per cent. of the East Indians. Of the former 24.8 per cent., and of the latter 21.1 per cent. were from dismissal.

11. On the Bombay, Baroda, and Central India Railway, the number of casualties was very high in the Traffic Department; on the East Indian, in the Locomotive Department; on the Punjab and Delhi, in both Locomotive and Traffic Departments; and on the Eastern Bengal, in Locomotive, Traffic, and Engineering Departments.

12. In the Traffic and Locomotive Departments of all Railways 3,909 servants were employed, 448 of whom were engaged in England and 3,461 in India; 2,311 of the latter being Europeans and 1,150 East Indians.

The total casualties amongst both Europeans and East Indians engaged in India and employed in these two departments were at the rate of 45.8 per cent., as compared with 44.2 per cent. in the preceding half-year.

13. The total number of Europeans and East Indians engaged in India who were employed on moving engines and trains was 2,372. Of these 250 were dismissed for some fault during the

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half-year, which is at the rate of 21.0 per cent. per annum. In the preceding half-year the rate was 19.4 per cent. per annum.

Only 205 persons so employed were engaged in England, and of these only five were dismissed in the half-year, which is equivalent to 4.9 per cent. per annum.

14. The driving and stoking of locomotives was managed by 1,429 Europeans and East Indians. Of these, 134 were dismissed for some fault during the half-year, or at the rate of one man out of every five annually. In the preceding half-year the dismissals were equal to one man out of every six annually.

15. The working of trains was managed by 1,148 men, such as Station Masters and Guards. Of these, 121 were dismissed for faults, being at the rate of one man in five annually, which is the same proportion as that of the preceding half-year.

16. Of 1,374 Europeans engaged in India and employed on different duties in the Locomotive Department, 396 either died or left the service of the Railway Companies. This is at the rate of 58 per cent. per annum, as against 55 per cent. per annum in the preceding half-year. In the Traffic Department the proportion was 42.9 per cent. per annum, as against 41.2 per cent. per annum in the preceding half-year.

17. Amongst those engaged in England, on the other hand, the casualties in these departments were only 14.7 and 14.2 per cent. per annum, respectively. Amongst the Europeans engaged in England in both departments, the casualties from all causes were at the rate of 15 per cent. yearly, as against 18 per cent. per annum in the first half 1870; while among the East Indians engaged in India in both departments, they were at the rate of 34.0 per cent. yearly, as against 30.6 per cent. per annum in the preceding half-year. Amongst the Europeans engaged in India, however, the casualties were at the rate of 51.6 per cent., against 51.0 per cent. in the half-year ending 30th June 1870.

RESOLUTION.—So short a time has elapsed since the Government of India reviewed the returns of casualties during the first-half of 1870, that the Governor-General in Council does not consider it necessary on this occasion to do more than commend the present returns to the careful consideration of those immediately responsible for the working of the Railways, in connection with the remarks recorded in Circular No. 2 of 1871.

2. For the future these returns should be submitted annually, as soon after the expiration of each Calendar year as possible, so that they may be compiled and communicated to the Secretary of State in time for inclusion in the Annual Report of the Government Director of Railways.

ORDER.—Ordered that copies of the returns now read, and of this Resolution, be communicated to the Governments and Administration noted in the margin, for information. Also to the Government of Bengal for information, with a request that an explanation may be furnished of the variations in the numbers of servants employed in the Locomotive Department of the East Indian Railway, during the first and second halves of 1870.

Also to the Secretary of State for information.
(Signed) E. C. S. WILLIAMS, Major, R.E.,
Dy. Secy. to the Govt. of India.

Proceedings of the Madras Government, Public Works Department,
17th June 1871.

No. 304. ORDER THEREON, 17th June 1871, No. 1,638.

RAILWAY, No. 40.

COMMUNICATED to the Consulting
Engineer for Railways.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways.

Erd. E. C. Shunker.

Numerical Return of Casualties whether by death, resignation and discharge, or dismissal amongst the

DEPART																		
DESCRIPTION.	GENERAL.		TRAFFIC.															
	Europeans.	East Indians.	Engaged in England.						Engaged in India.									
			Station Masters, Guards, Assistant Guards, and all engaged in working trains.				Others.		Station Masters, Guards, Assistant Guards, and all engaged in working trains.				Others.					
			Average number employed.		Number of Casualties.		Average number employed.		Number of Casualties.		Average number employed.		Number of Casualties.		Average number employed.		Number of Casualties.	
			Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.		
			Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.		
MADRAS RAILWAY.																		
Died	...	1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
TOTAL	...	1	2	...	...	8	...	27	132	3	12	...	...	...	...	...		
GREAT SOUTHERN OF INDIA RAILWAY.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1		
TOTAL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
CARNATIC RAILWAY.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	...	...	...	...	...	...	13	...	...	...	...	...	...	1		
TOTAL	...	...	...	...	...	...	...	...	...	...	...	...	1	5	...	...		
GREAT INDIAN PENINSULA RAILWAY.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	1	...	...	2	...	...	...	...	...	...	...	...	2	...		
TOTAL	...	1	...	9	2	6	1	...	...	3	1	...	...	...	4	2		
BOMBAY, BARODA, AND CENTRAL INDIA RAILWAY.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
TOTAL	...	1	...	1	...	4	...	...	...	...	...	...	...	...	...	2		
SINDH RAILWAY.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
TOTAL	...	...	1	...	...	1	...	...	8	26	4	8	3	15	...	3		
INDUS STEAM FLOTILLA.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
TOTAL	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
EAST INDIAN RAILWAY.																		
Died	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Resigned and discharged	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Dismissed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
TOTAL	...	4	4	...	...	5	...	...	...	...	...	...	...	...	...	...		
306 105 70 14 75 35 3 6																		

I.

European and East Indian employé's on Railways in India, during the half-year ending 31st December 1870.

[illegible]

The Directorate Department of all the Letters - at the direction of the Enad

whether by death, &c.,—concluded.

urban, and Oudh and Rohilkhand, includes the Carriage and Wagon Department.

No. II.

Abstract of Casualties, whether by death, resignation and discharge, or dismissed, amongst the European and East Indian employes on Railways in India, during the half-year ending 31st December 1870.

RAILWAYS.	CASUALTIES IN												AVERAGE NUMBER OF SERVANTS.								LENGTH IN MILES.		REMARKS.						
	GENERAL DEPARTMENT.		TRAFFIC DEPARTMENT.		LOCOMOTIVE DEPARTMENT.		CARRIAGE AND WAGON DEPARTMENT.		ENGINEERS' DEPARTMENT.		ELECTRIC TELEGRAPH DEPARTMENT.		TOTAL CASUALTIES OF ALL KINDS.		TOTAL CASUALTIES BY DEATH.		TRAFFIC.		LOCOMOTIVE.					ALL OTHER DEPARTMENTS.		TOTAL.			
	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.	Europeans.	East Indians.		Europeans.	East Indians.	Europeans.	East Indians.		
Madras	1	2	3	12	21	6	...	...	6	8	...	3	...	4	31	30	1	2	35	132	158	254	117	258	503	720	76	Under construction.	
Great Southern of India	...	...	...	1	3	3	...	...	1	8	...	...	...	...	4	7	2	...	1	18	23	27	24	48	69	168	...		
Carnatic	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	3	...	...	...	...	...	1	3	10	11	13	19		...
TOTAL, MADRAS	1	2	3	13	24	10	...	...	7	8	...	3	...	4	35	40	3	2	36	150	182	281	151	317	555	907	76		
Great Indian Peninsula	1	...	55	20	67	16	...	...	23	13	...	...	1	3	117	52	13	2	309	91	481	63	292	89	1,085	212	1,197	291	* Traffic Department includes Telegraph.
Bombay, Baroda, and Central India	1	...	4	11	21	9	...	...	1	1	...	...	1	2	28	23	2	...	16	41	112	51	45	15	173	110	312	21	
Sindh	...	...	1	3*	5	3	...	...	...	...	...	...	...	...	6	7	1	...	9	19	29	18	9	9	46	46	108	...	
Indus Steam Flotilla	...	...	...	...	3	2	...	...	...	...	...	...	...	...	3	2	...	...	2	4	32	12	23	17	57	33	...	...	
TOTAL, BOMBAY	2	1	60	31	96	30	...	...	24	14	...	...	2	5	181	81	16	2	305	155	636	117	369	129	1,361	431	1,617	31	
East Indian	4	4	73	20	213	84	4	11	4	...	...	2	...	1	335	119	20	3	346	140	718	250	268	181	1,372	571	1,353	118	
Eastern Bengal	...	...	9	3	22	2	...	...	21	8	...	...	...	...	55	13	2	1	40	8	68	6	45	21	153	38	112	45	
Calcutta and South-Eastern	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	1	4	...	...	2	7	24	...	
Oudh and Rohilkhand	2	...	1	...	4	...	...	...	25	13	...	...	...	...	32	13	...	...	5	1	10	2	136	51	151	57	42	502	
Punjab and Delhi	...	...	58*	...	37	...	...	4	...	...	...	...	...	1	111	...	3	...	175	...	115	...	83	16	403	16	519	...	
TOTAL, BENGAL	20	4	111	23	306	86	4	4	61	25	...	...	2	1	536	145	25	4	607	152	912	262	532	278	2,081	632	2,081	635	† Traffic Department includes Telegraph.
TOTAL, INDIA	23	7	204	70	426	126	4	4	95	47	...	...	5	3	10	755	269	44	8	979	457	1,780	693	1,000	558	3,759	1,708	1,818	

No. III.

Table showing the percentage of the total number of European and East Indian employes on Railways in India in all Departments, who died; were discharged, or resigned; or were dismissed; during the half-year ending 31st December 1870.

PERCENTAGE OF CASUALTIES BY DEATH.										PERCENTAGE OF CASUALTIES BY RESIGNATION AND DISCHARGE.										PERCENTAGE OF CASUALTIES BY DISMISSAL.										PERCENTAGE OF CASUALTIES OF ALL KINDS.										REMARKS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.			Traffic.		Total, or all Departments together.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

(8)

Total, India

*Return of Casualties among the
European and East Indian
Employés on all Indian
Railways during the half-year
ending 31st December 1870.*

*P. W. 2475/71
Printed June 1871 at No. 1100.*

1874-February 21 595
24 March 595

Communicate to the Consulting Engineer for

Railways

Fort Smith 17 January

For Carriage for Railways with eight 4000
pounds weight 1874

Cost of (1871) ~~Public~~ Works.

PUBLIC WORKS.

*To the Honble Member of Council
for Railways*

Date.

Recd.

Vol. /

G. O. 17 June 1871, No. 1638.

Nos. 2038, 204

*Railway Casualties to be read
from the book of India
on the Returns of casualties
among the European and
East Indian employees on
Railways during the
second-half of 1870, com-
municated to the Com-
missioner for Railways.*