REPORT

TO

THE SECRETARY OF STATE FOR INDIA IN COUNCIL

ON

RAILWAYS IN INDIA,

FOR THE YEAR

1875-76.

BY JULAND DANVERS, ESQ.,

GOVERNMENT DIRECTOR OF THE INDIAN RAILWAY COMPANIES.

Presented to both Mouses of Parliament by Command of Her Majesty.

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1876.

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REPORT.

To the Most Honourable the MARQUIS of SALISBURY, Secretary of State for India.

MY LORD MARQUIS,

India Office, June 1876.

I HAVE the honour to lay before your Lordship my Sixteenth Annual Report on Railways in India.

2. During the year 1875 a length of $261\frac{1}{4}$ miles was added to the system which General was open at the beginning of the year, making the whole extent now com- progress. pleted 6,497 miles. Of these, 768 are constructed with a double, and 5,7294 with a single line : 5,676 are on the 5' 6" gauge, 794 on the metre, and $27\frac{1}{3}$ on a four feet gauge.

3. The section of the Punjab Northern metre gauge Railway, which has been opened, can only be regarded as a temporary line, as it will be given up when the one parallel to it on the 5' 6" gauge has been constructed. The works towards Peshawur at present terminate at Jhelum. Beyond that place the course of the line has not been determined.

4. The works on the Indus Valley Railway have been progressing, and it is expected that all the wells for the large bridge over the Sutlej between Moultan and Bahawalpur will be fixed in their places before the end of this year. The line to that river is well advanced, and will soon be completed on the 5' 6" gauge. The works on the southern section from Kotri upwards have also been pushed on, and it is expected that the line will be opened as far as the San River by the rains of this year.

5. Fair progress has been made on the Northern Bengal Railway towards Darjeeling. It is stated that the rails will be laid over one half of the length by the rains of this year, and that by June next year the line will be ready for opening. 6. With the exception of the South Indian Railway, the extent of the

guaranteed undertakings has not been materially added to during the year. That railway has been prolonged to a length of 283 miles by the opening of a portion of its southern section from Trichinopoli to Tuticorin. The lower part of this division, vizt., that reaching from Madura to Tuticorin, was formally opened by His Royal Highness the Prince of Wales in December last; but public traffic did not commence over it until the 1st January.

7. The addition made to the Oudh and Rohilkund Railway, though short, is important, embracing as it does the bridge over the Ganges at Cawnpore, which connects the Oudh and Rohilkund system with the East Indian Kailway. Before it was opened a complete battery of artillery, two squadrons of cavalry, together with camels and elephants, crossed and recrossed it, to test its strength.

8. With regard to the future, the extension of the Rajputana lines southward Extensions from Ajmere has been sanctioned so as to form junctions with the Indore line on the sanctioned. cast, and the Bombay, Baroda, and Central India Railway at Ahmedabad on the west. A glance at the map will show the course of these projects. The latter, to which preference in point of time has been given, will be about 300 miles in length, and will proceed, in continuation of the Bombay and Baroda line, but on the metre gauge, from some point near Ahmedabad through Pahlanpore, east of Mount Aboo, and along the west side of the Aravalli range. The opening of the Sucz Canal has produced a revolution in the trade between England and India, and this line has become of infinitely more importance than when Lord Dalhousie in 1853 described it as one of "the greatest political and commercial value, and calculated to afford the greatest amount of general advantage." It is estimated to cost Rs. 1.84.06.261, or about Rs. 61.300 per mile. The other line, 133 miles long, will be in continuation of the present metre gauge railway from Khundwa to Indore and will pass through Neemuch. Its cost is put down at Rs. 82.48.660, or Rs. 62.000 per mile.

(12508.)

9. Sanction has also been given to a railway from Nagpore, the present terminus of that branch of the Great Indian Peninsula Railway to Dongaghur, in the province of Chutteesgurh. The estimated cost is Rs. 83.74.598 and the length is 123 miles. The line will pass through a country rich in agricultural produce. With the increased facilities for transit which a railway affords, it is expected that a much larger traffic than now exists will soon follow the opening of the line. It will no doubt confer very great benefits on the central provinces. 10. The following table gives the length of each separate undertaking, and the

10. The following table gives the length of each separate undertaking, and the extent opened :---

| | Railway. | Gauge. | Length of Line sanc- tioned. | Length opened during 1875. | Total Length opened, | Portion laid with Double Line, | Length remaining to be finished. |
|-------------|--|-----------------------------|---------------------------------------|-------------------------------------|----------------------------|---|---|
| | East Indian - { Main line - } Jabbalpur line- } | 5' 6" | {1,280 2233 | | 1,280 223ł | 414 | - |
| | Great Indian Peninsula | 5' 6" | 1,278} | | 1,278 į | 827 | |
| 긓 | Madras | 5' 6" | \$ 56 | | 8564 | _ | - |
| Guaranteed. | Bonibay, Baroda, and Central India- | 5' 6'' | ° 408 | - | . 108 | 21 3 | _ |
| Goe | Scind, Punjab, and Delhi | 5' 6'' | 663 | | 663} | 4 | - |
| li | South Indian | 8' 8 <u>}</u> '' | 617 1 | 97] | 283] | - | 334 |
| | Eastern Bengal | 5' 6" | 159 | | 157 | | _ |
| | Oudh and Rohilkund | 5' 6'' | 711 | 8 | 562} | · | 168 |
| 1 | Nalhati | 4' 0'' | 271 | | 27 | - | ļ |
| | Calcutta and South-eastern | 5' 6'' | 28 | | 28 | | - |
| | Northern Bengal | 5′ 8 } ′′ | 358] | - | ·, | _ | 858 |
| | Punjab Northern | 5' 6" | 267 | 62 (Tempo- | 62 | | 967 1 |
| | Indus Vailey | 5' 6" | 508 | rary Line.) | | _ | 508 |
| | Rajputana (Agra and Delhi to Nasirabad) | 3' 3}'' | ±02 | 48] | 3794 | | - 22] |
| | Neemuch (Indore to Neemuch) - | 8' 3 <u>}</u> " | 302 | | | _ | 302 1 |
| | Indore to Khandwa (Holkar's) - | 8' 8 <u>3</u> " | 85 | 20 1 | 57 57 | | 28 |
| | Patri branch of Bombay, Baroda, and Central India Railway - | 5' 6'' | 22] | - | 22 | | |
| State. | Wurdha Valley | 5' 6'' | 76 | · - · · | 18 | | 58 |
| | Tirbat | 8' 8 3 " | 93 | - | 64 | | 49 |
| | Rangoon and Irrawaddy Valley - | 8' 83'' | 371 | _ | - | | 871 |
| | Sindia (Ágra to Gwalior) - | 5' 6" | 72 | | | | 72 |
| | West Rajputana | 3' 8 <u>3</u> " | 314 | - | <u>.</u> | | 814 |
| | Nagpur and Chattisgarh - | 8' 3 ³ /' | 123 | - | - | | 123 |
| | BERAR. | | | | | | |
| | Khamgaon | 5' 6'' | · 71 | | 7] | | _ |
| | Amraoti | 5/ 6/ | 51 | -, | 51 | | - |
| | Wadi to Hyderabad and Secunderabad PROVINCIAL. | 5' 6' | 121 | - | 121 | | - |
| | Muttra and Hathras | 8/ 3 * | 80 | 80 | 30 | | |
| | Total | | 9,4153 | 261 1 | 6,497] | 768 | 2,978 1 |

| · | · · · · · · · | · · · | | | | | | _ | | | | | | | | | | | | | | | |
|--|---------------|-----------------|----------------|----------------|---------------------|------------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|------------------|-----------------|------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| Railways. | | | | | | | |] | Length | of Liz | ie oper | 1 at th | e ond e | of each | Year. | - | | | | | | | — į |
| ; | 1858. | 1854. | 1855. | 1856. | 1857. | 1858. | 1859. | 1860. | 1861. | 1862. | 1863. | 1864. | 1865. | 1866. | 1867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1.]78. | 1874. | 1875. |
| Bast Indian Rait- way (including | Miles. | 871 871 | Miles. 120# | Miles. 1201 | Miles. 1203 | Miles. 141 | Miles. 2544 | Miles. 367‡ | Milea. 56Jł | Milea. 883‡ | Mites. 987 j | Miles. 1,1051 | Miles. 1,129‡ | Milea. 1,1292 | Miles. 1,358 | Milea. 1,888 | Miles. 1,358 | Miles. 1,353 | Miles. 1,508‡ | Miles. 1,503} | Miles. 1,503‡ | Miles. 1,503 | Miles. 1,503] |
| Jabalpur). Great Indian Peninsula | 814 | 54 1 | 501 | 89 1 | 8 8) | 194 1 | 245} | 2974 | 4371 | 4041 | 558 | 585 1 | 701 | 815 | 852 | 875 | 872 ‡ | | | 1,2774 | | | 1 |
| Madres - | - 1 | | | 65 t | 80 1 | 95 · | 95 | 136 | 2971 | 447 | 447 | 571 | 611 | 645 | 64.5 | 677 2 | 7071 | 7821 | 8311 | | 857 | 8571 | 8503 |
| Boulay, Baroda, A Central India, | | | - | - | | | - | 85 | 189 | 185 | 185 | 3 05 i | 8051 | 305) | 805 } | \$05) | 8071 | 307 | 849) | 388 | 869 | 4061 | 408 |
| Soind | | | <u> </u> | - | — | - | - | - | 1051 | 105‡ | 105 | 105 | 105 | 108 | 108 | 109 | 1081 | 1084 | 1084 | 105 | 105 | 1051 | 1051 |
| Punjab Delhi | - - | - | <u> </u> | | - | | - | · | + + | 32 | 45 | 46 | 258 | 253 | 246 58 | 248 53 | 846 270 | }653 1 | 5534 | 558¥ | 883 1 | 553 | 636i |
| Great Southern of India, now | | ` | - | [: <u></u>] | | - | - | | 49 | 79 | 79 | 79 | - 79 | 127 | 144 | 168 | 108 | 168 | 168 | 168 | 168 |)• | |
| South Indian. Carnatic, now South Indian. | - | | – | - | - | - | - | - | - | - | | - | 18 | 1 | 1 - | 181 | 18‡ | 18 | 18 | 18 | 18 | }165. } | 2831 |
| Bastorn Bengal - | | - | - | - | | _ | - | - | - | 110 | 110 | 110 | 110 | 110 | 1134 | 113 | 112 | 112 | 156) | 156) | 1681 | 158} | : J |
| Oudh and Rohil- kund. | | - | - | - | - | - | | | - | | | - | - | - | 42 | 48 | 42 | 42 | 42 | 294 | 455 | 530 | 5421 |
| Calcutta & South- eastern. Punjab Northern | . — | | - | | | - | - | - | - | 15 | 28 | 28 | . 28 | 28 | 98 | 28 | 28 | 28 | 26 | - 28 | 28 | 23 | 28 |
| Nalhati | _ | | | 1 - | _ | - | | - | - | - | - | ~ | - | - | | - | - | - | - | - | - | - | 62† |
| Khangaon | · | | | | | | - | | | | 271 | 27 | 87 | 271 | 27 | | | | | | 27 | 1 7 | 1 |
| Amraoti | | _ ' | | 1. | | 1 | | | 12 | | | - | - | ŀ - | | - | - | 7 | l | 1 | | | 1 1 |
| Rajputana - | | - | | | | | 1 - | | ! _ | - | | | | | | | | - | 51 | 5 | | | 1 1 |
| Holkar | | | 1 🗌 | | | | | 1 - | 1 - | | 1 | | | | | | _ | | | | 92 | 1 202 37 | 3701 57 |
| Patri | | | | <u> </u> | _ | - | | | | | | 1 | | | | 1 | 1 | | | | 2 | 1 | ł |
| Wurdha Valley - | _ | | | - | _ | | | _ · | 1_ | | - | | | | | | | | | | | 18 | |
| Tirhut - | - | - | _ | _ | - | 1 | - | 1 _ | _ | - | _ | | | - | | | | _ | - | | | 53 | 1 |
| Nizam'a - | 1_ | _ | | - | · | _ | _ | _ | - | _ | _ | | 1_ | 1 | 1 _ | _ | 1_ | _ | _ | _ | _ | 121 | 1 |
| Muttra & Hathras | | i | - | 1 - | | | - | - | 1 | - | - | - | | _ | | _ | | _ | 1 - | 1 - | _ | - | 80 |
| Total - | 211 | 78 | 171 | 2742 | 289 | 4301 | 6244 | 8361 | 1,581 | 2,851 | 2,616 | ŧ 2,962 | \$,368 | 1 3,568 | 3,980 | 4 4 036 | 4,261 | 4,76 | 5.072 | 5,362 | 1 5,871 | 6,201 | L 0 497 |

11. The following statement exhibits the annual progress made in the construction of railways since their commencement :----

* The Great Southern of India Railway has, on re-measurement, been found to be 167 miles only.

† Temporary Line.

12. There are two provinces in British territory which are still beyond the reach Communiof railway influence, but which might with the help of the navigable river cation with running through them, be brought, without much expense, into regular communi- Cachar. Assam and cation by steam with the rest of India. I mean Assam and Cachar. The Brahmaputra passes the terminus of the Eastern Bengal Railway in its course from Delrugan, the capital of Assam, which, nevertheless, is as distant, in point of time, from Calcutta as Bombay is from London. What is wanted is a regular and expeditious line of steamers, to work in communication with the railway. The service is now tedious and unreliable; and this discourages the outlay of capital in a fertile province where tea can be successfully grown, and where there is room for great agricultural and mineral development.

13. The principal event of the year requires a passing notice in connection with Prince of its effect upon the railways. The greater part of the travels in India of His Wales' visit. Royal Highness the Prince of Wales was necessarily performed on the railways, and we may rejoice that they contributed to the success of this brilliant and beneficial Royal progress. When at Bombay in November, His Royal Highness went by the Great Indian Peninsula Railway to Poona and back, and to Baroda and Mehmadabad on the Bombay, Baroda, and Central India Railway. In December, after visiting Ceylon, he landed at Tuticorin, travelled from thence to Madura and Trichinopoli and formally opened that portion of the South Indian line. From Trichinopoli he proceeded by Erode to Madras on the Madras In January His Royal Highness travelled from Calcutta to the station Railway. on the East Indian Railway opposite Benares, crossed the River Ganges at that place, and went by the Oudh and Rohilkund Railway to Lucknow and Cawnpore. From thence he proceeded to Delhi by the East Indian Railway, and on to Lahore by the Scind, Punjab, and Delhi Railway. When there he went by the Punjab Northern State Railway to Wazirabad and back, performing the ceremony of driving the last rivet for the completion of the bridge over the Chenab River. Returning to Agra His Royal Highness went to Bhurtpore and back, and to Jeypore and back, in February, by the Rajpootana State Railway, Proceeding from Agra

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to Alligurh, he again travelled on the Oudh and Rohilkund Railway to Moradabad, on his way to the Terai and Nepal, and came back by Bareilly to Cawnpore in March. From thence he returned by the East Indian and Great Indian Peninsula Railways to Bombay, via Allahabad and Jabbalpore, stopping on his way at Khundwah, and travelling over the open line of the Holkar State Railway, on his way to Indore.

14. His Royal Highness on several occasions personally expressed his satisfaction with the arrangements. After his departure, the Government of India reviewed the railway service thus performed, and concluded their observations with the following resolution :--

"Taking into consideration the length of the journeys, aggregating in all 4,829 miles, performed by His Royal Highness the Prince of Wales on Indian Railways, and the difficulties with which the railway authorities had to contend, consequent on an augmented traffic at a time when efforts were needed to ensure the safety of the Royal train, and the personal convenience and comfort of His Royal Highness the Prince of Wales, the Governor-General in Council is pleased to record his high appreciation of the services rendered by the railway officials of all ranks.

"This good result has been attained both by the well considered arrangements and comprehensive directions of those in chief authority and by the loyal exertions of all the members of the different railway departments."

15. Among the benefits arising from the visit to India of His Royal Highness the stimulus which was given to travelling on the railways to all classes of natives, and the direct pecuniary return derived from the movement of large bodies of people from one place to another to greet His Royal Highness, must not be overlooked.

16. The rainy season of 1875 did not pass without damage being inflicted on railway works by the floods. The large bridges on the Northern lines remained unaffected, showing, it is hoped, that the protective works had rendered them safe; but both on the Great Indian Peninsula Railway, near Jabahpur (between Chhindwara and Narsinghpur), and on the Punjab and Delhi line (between Amritsir and Jullunder), portions of the line, including culverts and small bridges, were washed away, causing interruptions to the traffic and considerable expense in making the necessary repairs and alterations.

17. The most formidable injury was sustained by the Eastern Bengal Railway, at its northern terminus. It will be recollected that fears were entertained for the safety of Goalundo, in consequence of the threatened encroachments of the River Ganges, and that measures had been taken at a large cost to protect the station by means of a spur which had been thrown out into the river 500 feet. The effects of this work upon the floods of 1874 were considered satisfactory, and it was expected that, by making certain alterations in its shape, and by giving it greater strength, the eroding action of the two great rivers which meet at this point would be overcome or diverted. Early in August last, however, all these hopes were destroyed. "Owing to heavy and prolonged rains thoroughout the " upper sources of the Ganges and its tributaries, that river rose to an unprece-" dented height, and began rapidly to cut into the right bank above Goalundo, " and to cause grave apprehension of the early destruction of the works there."* On the 17th August the demolition of the station was ordered in anticipation of the early collapse of the protective works. The buildings were accordingly removed, and the inhabitants sent further away from the river. This was done just in time, for on the 23rd the protective works were cut through by the water; and five days after the spur had disappeared, the land on which the station stood being completely washed away. When I was there in January, the rivers were, of course, almost at their lowest. About half a mile from the bank, what appeared a small rock rising out of the water could be seen, and this was the remains of the spur. Between it and the shore, the space on which the station stood last year, the depth of the river was about 30 feet, and steamers were loading and unloading within a couple of yards of the newly formed river bank.

18. On the Bombay, Baroda, and Central India Railway, the large bridge over the Saburmuttee River, near Ahmedabad, 1,125 feet long, and consisting of 18 spans, was washed away by the floods of last season. It has already been replaced by one on a higher level, which was commenced in December, and opened for traffic on the 19th May. This expeditious completion of so important a work reflects great credit upon the engineering department of the railway.

• Despatch from Government of India, 2nd September 1875.

Flood damages.

PROCEEDINGS IN THIS COUNTRY.

19. The proceedings in this country connected with the railways have been of the usual kind. The following tables exhibit the shipping operations. It will be seen that 288,186 tons of materials were despatched during the year, of which 124,192 consisted of fuel. During the 25 years since the railways were commenced, 5,181,721 tons of goods, of the value of 34,660,460*l*. have been shipped in 8,495 ships, 75 of which have been wrecked on the voyage. Last year there was no casualty.

SHIPPING OPERATIONS, exclusive of Fuel, during 1875 on Account of Guaranteed and State Railways.

| Railway. | Number of Ships employed in 1875. | Number of Tons of Goods shipped in 1875. | Value of Goods shipped in 1875. | Amount paid for Freight and Insurance in 1875. | Average Rate of Freight and Iusurance per Ton. |
|-----------------------------------|--|---|--|---|--|
| | | . Tons. | £ | £ | £ s. d. |
| East Indian | 45 | 9,745 | 104,267 | 10,532 | 1 1 7 |
| Great Indian Peninsula | 43 | 7,103 | 85,192 | 13,558 | 1 18 2 |
| Madros | 37 | 12,905 | 71,392 | 18,610 | 1 8 10 |
| Bombay, Baroda, and Central India | 31 | 1,168 | 17,002 | 2,523 | 232 |
| Scinde, Punjab, and Delhi | ·· 10 | 1,796 | 26,561 | 4,212 | 2 6 10 |
| South Indian | 42 | 46,359 | 436,412 | 63,003 | 172 |
| Eastern Bengal | 13 | 4,821 | 21,119 | 7,078 | 194 |
| Oude and Rohilkund - | 27 | 1,320 | 32,040 | 2,272 | 1 14 5 |
| State Railways | 173 | 78,980 | 608,453 | 97,841 | 149 |
| Total - T | 421 | 163,997 | 1,402,438 | 219,629 | 169 |

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| Railway | Number fro | of Tons m Engla | | Total | original | Cost. | un paid for Freight and Insurance. | Ton | ge Cost when b Englar | nd | | te Cost deliver India. | ed in |
|--|-----------------------|--------------------|------------------------|-----------------------|----------------|------------------------|---------------------------------------|-------------------|-----------------------------|------------------------|--|------------------------------|-----------|
| Company. | Of Coal. | Of Coke. | Of Patent Fuel, &c. | Of Coal. | Of Coke. | Of Patent Fuel, &c. | Sum paid fo and Insu | Of Coal. | Of Coke. | Of Patent Fuel, &c. | Of Coal. | Of Coke. | Of Patent |
| East Indian - | | 601 | _ | £ 1,728 | £ — | £ | £ | s. d. — | s. d. | s. d. | s. d. | s. d. 574 | s. |
| Great Indian Peninsula - Madras - | 82,582 4,799 | 3,014 | 2,907 | 57,711 8,432 | 2,568 | 2,125 | 94,835 13,989 | 140 148 | 17 0 | 14 7 | $ \begin{array}{c} 86 11 \\ 87 6 \end{array} $ | 47 0 | 41 |
| Bombay, Baroda, & Central India | 17,283 | - | 3,06€ | 29,996 | - | 6,132 | Included in price. | 94 10 | - | 40 0 | <u> </u> | | - |
| Seinde, Panjab, and Delhi - South Indian - Eastern Bengal - | 4,080 5,192 201 | 178 394 — | , | 8,044 3,452 201 | 790 384 | | 5,822 126 | 895 138 200 | 20 0 | | 89 ≥ 35 8 82 6 | 91 4 48 7 | |
| Totals - | 114,037 | 4,182 | 5,978 | 104,559 | 3,737 | 8,257 | - | | - ' | - | - | | - 1 |

AMOUNT and COST of COAL and other FUEL sent out from this Country in 1875.

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| | Perio | d. t. | | | Number of Ships employed. | Number of Ships lost. | Number of Tous of Goods shipped | Amount paid in England for Goode shipped. |
|----------------|-------|------------|--------------|-------|---------------------------------|--------------------------|---------------------------------------|---|
| | • | | | | | | | £ |
| Jp to end of I | 1860 | • | . . . | - | 2,605 | 39 | 2,094,686 | 10,431,976 |
| n 1861 | • | - | · _ | - | 407 | . - | 181,621 | 1,669,443 |
| 1862 | - | | | - | 280 | 1 | 138,013 | 1,487,582 |
| 1969 | - | - | Ľ. | - | / 279 | 2 | 166,840 | 1,285,464 |
| 1864 | - | · _ | ~ | - | , 283 | | 102,318 | 1,018,164 |
| 1865 | - | - | - · | | 442 | 2 | 199,157 | 1,729,543 |
| 1866 | - | - | | · - · | 581 | 7 | 312,227 | 2,527,757 |
| 1867 | - | - | - | | 512 | 5 | 333,329 | 8,052,652 |
| 1868 | - | - | - | - | 364 | 8 | 188,858 | 1,849,554 |
| 1869 | _ | - | | - | 455 | 1 1 1 | 211,750 | 1,432,784 |
| 1870 | · _ | . · | • | - | 461 | 1 1 | 263,449 | 1,688,209 |
| 1871 | N 14 | - | · _ | - | 307 | 6 | 168,049 | 707,765 |
| 1872 | _ `× | | _ | | 818 | 1 | 66,584 | 655,822 |
| 1873 | - | 14 | | | · 404 | 2 | 201,590 | 1,561,602 |
| 1874 | • | ¥ | | - | 426 | 5 | 265,114 | 2,042,136 |
| "1875 | - | - | - | | 421 | · · · | 288,186 | -1,518,991 |
| | Tet | al | - | - | 8,495 | 75.4 | 5,181,724 | 34,659,444 |

20. The proprietors have increased in number from 62,300 to 62,608. The insignificant number of those who held stock or shares in India has become still less: the Europeans being reduced from 448 to 407, and the natives from 416 to 390. The proportion of stock held in India is 1.56 per cent. of the whole.

| | Nu | unber of Sharel | holders on (| lst Decembe | r 1875. | | | ber of | |
|---|---|---|----------------------------------|-----------------|-----------------------|--|-------------------|-------------------|---|
| | Regis | tered in Engla | nd. | I | n India. | ······································ | | ders. | Total Number of |
| Railway, | With Stock or Shares to the Amount of 1,000 <i>l</i> . and upwards. | With Stock or Shares of less Amount than 1,000L | Total in England, | f Europeans. | Nati ves . | Total in India, | Bonds. | Stock. | Proprietors on the 31st Decem- ber 1875. |
| East Indian - Great Indian Peninsula - Madras - | 7,235 5,553 8,991 | 8,516 7,574 4,262 | 15,751 13,127 7,258 | , 123 112 | 155 134 | 278 246 | 625 534 181 | 865 1,462 | 17,519 15,369 7,434 |
| Bombay, Baroda, and Central India - Scinde, Punjab, and | 2,460 | 8,801 | 6,961 | 10 | 40 | 50 | *52 | | 6,868 |
| Delhi South Indian Eastern Bengal Oude and Rohilkund - | 8,410 921 615 1,069 | 5,340 1,449 1,023 1,377 | 8,750 2,370 1,638 2,446 | 71 | 18 24 24 | 84 | | 132 199 139 | 8,834 2,502 1,909 2,678 |
| Total | 24,954 | 33,842 | \$7,596 | 407 | 390 * | 797 | 1,418 | 2,797 | 62,608 |

• An allotment of 200,000/. is represented by one of this number.

NUMBER OF LOCOMOTIVES and VEHICLES owned by the GUARANTEED RAILWAY COMPANIES.

| • | • | L | ocomotiv | es. | | enger iuges. | Goods Ti Wag | rucks and gons. | Total |
|-------------------------|-------|-------------------|----------|---------------------------------------|-------------------|----------------------|-------------------|-------------------------------------|---|
| Railway Company. | 2 | Former Number. | | Total Number, 31stDec. 1875. | Former Number. | Addud in 1875. | Former Number. | Added or Deducted in 1875. | Number o Vehicles on 81st Decembe 1875. |
| East Indian - | | 518 | 3 | 515 | 924 | , 30 | 6,664 | | 7,618 |
| Great Indian Peninsula | - | 345 | | 345 | 1,309 | 3 | 6,684 | 3 | 7,998 |
| Madras | | 126 | 2 | 128 | 383 | — :. | 8,200 | 5 | 3,588 |
| Bombay, Baroda, and Ce | ntral | . . | } | 1. | | | | | • . 1 |
| India | • | 85 | | 85 | 233 | 62 | 2,808 | 69 | 3,034 |
| Scinde, Punjab, and Del | hi - | 156 | | 156 | 509 | l | 2,959 | 36 | 3,504 |
| South Indian - | | 26 | j 35 | 60 | 91 | 135 | 873 | 563 | 1,162 |
| Eastern Bengal - | - | 43 | | 43 | 158 | 9 | 705 | 2 | 874 |
| Oude and Rohilkund | - | 62 | | 62 | 243 | 79 | 631 | 456 | 1,409 |

PERSONAL INSPECTION.

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21. Since my last Report was written I have, with your Lordship's permission, Personal personally visited all the railways in India, and have thus had the opportunity of visit to Iudia. witnessing the work they are doing and of judging, better than I could before, of the work which they may be expected to perform. I had the advantage of travelling, during the greater part of my tour, with Mr. Rendel, the consulting engineer to this Office and to the East Indian Railway Company, who had been twice before to India and who, on this occasion, had been deputed by his Board to inspect that line and to report on several matters connected with its condition and working.

22. Wherever we went we received every possible assistance and the greatest courtesy, both from the officers of Government and of the Companies, whether while pursuing our journey or in prosecuting our enquiries.

23. One change which has been produced in India by steam power cannot perhaps be better illustrated than by the fact that within the time which forty years ago it would have taken to communicate by letter between London and Calcutta we were enabled to go to India and back and to traverse the length and breadth of the land, from Tuticorin and Beypore in the south to Multan and Jhelum in the north; visiting, on our way, most of the important cities, including Madura, Trichinopoli, Bangalore, Hyderabad, Poonah, Ahmedabad, Baroda, Jabalpur, Benarcs, Allahabad, Cawnpur, Lucknow, Agra, Delhi, Ajmere, and Lahore; remaining several days at Calcutta, Madras, and Bombay; stopping to view the new and rising industries of the country, such as the coal mines of Wurrora, Mopani, and Kurhurballi, the iron works of Raneegunge, and the factories at Bombay, Surat, Broach, and Calcutta; and mounting several hill stations and sanatoriums.

24. Speedy communication is, however, a small part of the work which is being Value of accomplished by railways. They are producing a most important and beneficial railways. influence over the moral and material interests of the people: and they are furnishing those who are responsible for the government of the country, with the most effectual means of establishing peace and security. On political and strategic as well as on social and commercial grounds their extension therefore is greatly to be desired. But no extensive ramification of the railway system can be successfully carried out without the exercise of the utmost economy and circumspection. The lines must be constructed at the lowest possible cost and selected and laid out with the greatest judgment.

25. With regard to the existing lines, we found, generally, that they were in Condition good condition. Here and there portions had been allowed to fall below a high of existing standard of efficiency, but the permanent way was, as a rule, in proper order and lines. the work of maintenance well attended to. Some lines looked better kept and neater than others, and this was, to a certain extent, due to the materials most suitable for ballast being ready at hand. The Madras Railway especially, with its light sand roadway and iron sleepers, was as trim as the drive in a gentleman's park in England. In carrying out so extensive a system as that which now exists, it could hardly have been expected that mistakes would not have been made, and failures would not have taken place, but those which have occurred are, for the most part, the mistakes and failures naturally arising from inexperience and imperfect data. Alignments, in some cases, might have been better, and the works are in some places unnecessarily massive and expensive. In others sufficient water way was not provided ; bridges have been insecurely built and their foundations have not only been shaken but undermined by the tremendous force of the These, however, are mostly errors inseparable from vast operations of a floods. novel character in an unknown country. Taking the railway system of India as a whole it cannot but be regarded as a triumph of human industry and skill.

26. And this leads me to dwell for a moment on the character of the work Work done which has been done in India by the Civil Engineer. He had to contend against by the civil the forces of nature to a far greater extent than is the case in this island. He engineer in had to overcome the difficulties which the gigantic features of the country placed in his way : he had often only poor materials and inferior labour at his command, and he had to meet the dangers of exposure to a burning sun by day and malarious vapours by night. To his skill and professional knowledge he accordingly had to bring more than ordinary courage and endurance. Many have broken down in the attempt, but their places have been immediately filled by others, and the result is exhibited in the thousands of miles of railway which B

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thread their way over mountain passes, cut through thick jungle and span huge and uncertain rivers. Nor is this energy confined to Engineers; in all departments, and in every branch of the service, one cannot but observe a zeal and activity among the officials, which betokens a deep interest in their work.

Stations.

Locomotive

. stock.

Metre gauge lines. 27. The station accommodation is generally good, sometimes perhaps too good, but never unnecessarily spacious. In saying this, I am obliged to except the terminal arrangements of the East Indian Railway at Calcutta, and of the Great Indian Peninsula Railway at Bombay, at both of which stations the accommodation is inadequate and the buildings unworthy of those large concerns. The former is now being put in better order; and the latter is about to be improved by the erection, for the first time, of suitable covered ways and offices. On the lines in Upper India the stations are so constructed that they may be easily fortified in case of need. They are built of brick or stone, and are covered with iron, stone, or tiles, according as materials are available in the districts where they are situated. The stations of the Great Indian Peninsula Railway are especially noted for the tasty manner in which they are laid out. The servants of the company are encouraged to cultivate flower gardens, and they have succeeded admirably. The luxuriant vegetation of the country is also turned to practical account by training creepers, so as to form the sides of sheds many feet high, which are thus left airy, and at the same time protected from the sun and rain. 28. The locomotive stock provided is, in most cases, excessive; while the power of the engines is in many cases below that which present experience would recommend. The adhesion in India is usually good, and it seems to be generally held that a larger cylinder than we are accustomed to use in this country may be utilized there: also that good types for India would be for passenger and mixed trains four-wheel coupled engines with 5' 6" wheels and cylinders 17" diameter and 24" stroke, and for goods six-wheel coupled with cylinders $17" \times 24"$, the wheels being 4'6" in diameter for goods trains, each pair of wheels having about 11 tons weight upon them.

29. We travelled over the whole open length of the Rajpootana, and of the South Indian, metre gauge lines, and found them as smooth and as steady as the broad gauge. The carriage accommodation, though necessarily less spacious, was sufficiently commodious, and there was no perceptible difference in the comfort and ease of travelling. This description of railway has not yet been long enough open to enable a reliable conclusion to be arrived at with regard to the cost of working it as compared with the broader gauge lines. The expense of transferring goods from one line to another at the points of junction may be calculated at from $l_{\frac{1}{2}d}$ to 2d. per ton. The contract rate for performing this work at Delhi, where the Rajputana line meets the East Indian and Punjab and Delhi railways, has been Rs. 2 8a. per 1,000 maunds. Inconvenience, to a certain extent, and diminished facilities of transport must of course occur where there is a break of gauge, and it becomes a matter of judgment where, or where not, a break shall be permitted. There are many districts calling out for the means of communication, where even common metalled roads do not now exist, and where a very light and cheap railway would, for generations, be sufficient for the traffic which is likely to come upon it. "If," as Sir John Strachey says, "we can make railways " which are self supporting, it is from every point of view advantageous to substitute " them for metalled roads. We get far better means of communication : we provide " admirable feeders to the great trunk lines of railway, and thereby not only benefit " the country, but the financial interests of the Imperial Government, and we at " the same time relieve the provincial revenues from a serious burden." The kind of line thus indicated has been laid down between Hathras, a station on the East Indian Railway, and Muttra, on the river Jumna, mainly on the metalled road. It is about 30 miles in length, and has cost Rs. 9.00,000, including rolling stock and stations. Of this Rs. 6.00.000 was provided from provincial revenues, and Rs. 3.00.000 by local subscriptions, chiefly from natives, under a guarantee of 4 per cent. from the local government, and upon the understanding that any excess of receipts beyond this rate shall be divided between the Government and the subscribers.

Manage-

30. I need hardly remark that the railways command an enormous power over the interests of the districts through which they pass. It is a power which should be used in a very judicious, enlightened, and I would add enterprising, spirit, not calculating only on the existing condition of things, but taking into account the capabilities of the country, the prospects of future development, and the growing wants and improving lights of the people. To obtain the highest return from the

transport of 'a limited amount of goods should not be so much the object of railway managers as the conveyance of a large quantity with a comparatively small profit upon each unit.) In some of the fertile valleys through which we passed, the surface of the ground, unbroken by hedge, wall, or fence of any kind, presented, as far as the eye could reach, from the railway embankment, one large sea of rice or corn. In other parts the railway traverses tracts of country where the cultivable area might be increased, and where an external trade might be established, if only a market were accessible for the produce of the land. Opportunities, therefore, in one shape or another, are not wanting of obtaining traffic; but to make railways as serviceable and as profitable as they should be, they must be brought within reach of the people, who, though poor, tenacious, and prejudiced soon become alive to their value, and are quite ready to use them in every possible way, whether for carrying themselves or their goods. The passenger rates have, on some lines, been already reduced, for the lowest class, as far as can be expected. The charges are from a farthing to a third of a penny The value attached by natives to cheap travelling may be gathored per mile. from the fact that they prefer giving up their caste to parting with their pence. The high caste will travel with his lower caste brother rather than pay a higher fare. As regards goods, the natives who engage in trade are keen observers and accurate calculators in matters of business, and command, by some means or other, very accurate information as to prices which prevail in the various markets of the world. The trade up country would seem, at present, to be in the hands of a few. One effect of administering the railways in a broad and liberal spirit would probably be to introduce a wider competition, and to encourage a more general employment of capital. The policy, therefore, to be followed, both in the interests of railway proprietors and of the public, is low rates and simplicity of management; avoiding as much as possible special charges and exceptional arrangements (which only confuse and discourage the uninitiated and the small dealer), and showing a readiness to consider the means, the wants, and usages of the people. It is hardly necessary to add that economy is at the bottom of all reforms and improvements in the direction above indicated. For the rates paid by the customer must always in some degree correspond with the cost of transportation. The more saying there is in managing the traffic, the greater margin will there be for reduction of charges, and "thus will a greater stimulus be given to business, and a greater chance of increased profits.

31. It may be said that high and low rates are simply comparative terms which Rates and convey no definite meaning. As applied to the circumstances of India, I would fares. describe rates as "high" when they fail to secure the conveyance of the produce of the districts through which they pass or of the goods imported into those districts; when they prohibit or unduly check traffic, and thus restrict trade; when they discourage extended production; and when they raise the cost of conveyance by diminishing the use of the carrying stock. This has been too much the case hitherto; and therefore railways have not yet conferred upon the country the full benefits, nor yielded the profits, which they might have done. The smallest addition to the cost of an article will very often turn the scale as to whether it shall find a favourable market or not. The expense of carriage has necessarily a very important influence on the price at which it can be delivered. The lower the cost of production, the greater is the effect of that influence. This applies especially to corn and other grain, salt, coal, cotton, and almost all the staple commodities of the country. It is very desirable, therefore, to be able to charge such moderate rates as will conduce to the conveyance of large quantities with a small profit on each unit, and thus promote the movement of goods from one part of the country to the other as well as their exportation to foreign lands. As an illustration, I would mention that, at the present moment, in consequence of the low price of wheat* in the provinces of Oude and Rohilkund, and the facilities which the railway gives for conveying it to the port of Calcutta, a larger quantity is being sent to this country and other parts of Europe than has, I believe, ever before been known. In round numbers its cost, including expenses of conveyance, both by land and sea, would on arrival in London be from 38 to 40 shillings per quarter. The price here is about 43s. or 44s. Another advantage arising from low rates is worth adverting to at the present moment. By helping to increase the export of Indian products, they would proportionately promote the demand for silver in India and assist to raise the rate of exchange.

32. The Oudh and Rohilkund Company when they commenced their traffic arrangements introduced the cheap and simple system; and on other lines improvements have lately been made, both as regards charges and general management, the results of which will, I trust, encourage, a further advance in the same direction.

33. As regards the charges in force on the railway just mentioned, they represent, the Company's Agent says, "the freight which the traffic offered can bear." Reduced rates came into operation on the 1st January, and Colonel Jenkins goes on to observe, "it may be confidently asserted that a large increase of "traffic was coeval with their introduction and has continued up to the present "time." On the Eastern Bengal Railway lower rates for salt were introduced early in the year. An immediate increase of traffic took place, and has been fully sustained ever since: the result being an additional quantity of 66,840 maunds compared with the previous year, equivalent to 101 per cent., the reduction in the charge for carriage having been only 33 per cent.

34. The East Indian Railway Board have not been backward in adopting a liberal scale of charges,* and in a recent letter to their agent, the directors expressed their opinion that "it is now clear that the rates charged for the great staples of "produce must be fixed at the lowest possible point," to secure the proper development of the traffic of the country. The Great Indian Peninsula Railway Board have also given practical effect to this doctrine by diminishing rates on grain, and by sanctioning other reductions which, besides simplifying the system of charge, will produce a relief to their customers of about 80,000%, calculated on the revenue returns of the previous year. The Bombay, Baroda, and Central India, and the South Indian Railway Companies have also adopted lower scales of rates for passengers and certain goods. It would thus appear that the conviction is gaining ground that a liberal policy, as regards rates, is the best.

35. Everywhere we found the railway authorities very desirous of securing the comfort and proper treatment of the native travellers. Strict orders are issued for the purpose, as well as for supplying their necessary wants during the journey. Notwithstanding which, crowding and rough handling may sometimes be witnessed. The former is often unavoidable, and is frequently aggravated by the quantity of bundles, to say nothing of children, which the women carry about with them, and which they have to squeeze hurriedly through the small opening of a third-class carriage door. The latter appears to be worse than it really is through the excited and violent gesticulations of the native police and porters. In every train there are separate compartments for females; but men and women frequently travel together. The station arrangements were generally suitable and a good supply of filtered water was always ready. Tables of rates are published in various languages and put up at the booking offices.

36. The accommodation for European travellers is as good as can be expected, and greatly superior to that provided on continental lines. The carriages are commodious and comfortable, and every effort is used to make travelling endurable in the hot season by means of punkahs and other cooling apparatus. But it is difficult to succeed. The heat and dust are very oppressive. The substitution of railway for road travelling must, however, have been a prodigious boon to the European: and those who now reside near the railway must, compared with those who live at a distance from it, experience a feeling of security from the knowledge that in case of illness a change may be at once obtained by stepping into the next train. In former days many an invalid ordered to England who had to proceed several hundred miles from the interior to the port of embarkation must have sunk under the fatigue and exposure to which he was subjected. Frequently were graves pointed out to, us on the wayside, where the stricken traveller, overcome by sickness and exhaustion, had found his last resting place. Sometimes it was in consecrated ground, but oftener not. It is difficult to understand Indian distances until they are felt. In those days, weeks were occupied in traversing the plains between the military cantonment or civil station in Central or Upper India and the seaport or the nearest hill sanatorium. Even now, when we see on a map two places on opposite sides of the continent linked together by the railroad, we are apt to forget that two or three nights as well as days are spent on the journey. And when we heard of

Treatment of Native passengers.

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European

passengers.

Distances in India.

^{*} Colonel Hancock, R.E., the Consulting Engineer and Under-Secretary to the Bombay Government, in his minute on the relative working of the East Indian Railway and Great Indian Peninsula Railway, points out as an advantage enjoyed by the former over the latter "that low goods rates have been forced on the East Indian Railway by water competition and that its traffic has prospered in consequence."

grain being carried across the river Ganges at Patna to the opposite side by ferry boats, few of us knew that these boats had to go round a distance of thirty miles.

37. The rules in force for securing regularity and safety generally embrace the Arrange-"line clear" system, by which no train is allowed to leave one station until a ments for message has been received from the next that the train telegraphed as having and safety. been last despatched from the former has passed through. The block system is being introduced on the lines where the traffic is large, and this will gradually be extended as necessity arises. The speed of a mail train averages about 30, of an ordinary train 18 to 20 miles an hour. The signalling is much the same as in this country. Fencing, as a rule, is required and is undoubtedly necessary in the neighbourhood of towns and villages; but it is difficult to construct a fence which will effectually keep out animals. In districts with long lengths of straight level line, and where trains pass at a moderate speed, many experienced persons think fencing to be unnecessary. During my journeyings, which extended over 13,000 miles, and took place, sometimes without much notice, at all times of the night and day, we only once came in contact with any obstruction, if a snake which was cut in half and a monkey's tail which suffered the same fate may be excepted. A native Inspector was using a trolly for repairing the line, and while on a curve, had failed to give the proper signals. The trolly was run over and smashed to pieces by our train, which was a special one, but the man had thrown himself off, and suffered no personal injury."

38. At certain places on most of the railways, where more Europeans than usual of European the mechanical class are brought together, consisting principally of drivers, and those mechanica. who belong to the locomotive workshops, dwellings are provided which collectively form a kind of railway town. On approaching these places they present quite an imposing appearance. Large square brick houses are seen placed in compounds or gardens bearing a resemblance to the villas and mansions occupied by the wealthy citizens of a London suburb. A closer inspection, however, shows that this impression is deceptive. The grand appearance is produced by the broad verandah, so necessary to an Indian dwelling, and by the double story which was, until lately, rarely seen in India. Each house contains perhaps eight rooms, and these are occupied by several men, some with families, who pay at the rate of from Rs. 9 to Rs. 10 per mensem for each room. In connection with this colony there are generally institutes, libraries, swimming baths, billiard rooms, churches, schools, co-operative stores, hospitals, recreation grounds,--everything in fact that can be . thought of to afford occupation for the mind and body. It is very desirable to attend to the health, comfort, and amusement of European mechanics in India as well as to the education of their children. There are great temptations to indulgence and excess, and it is obviously expedient to secure well behaved, steady, and intelligent European communities of this class in the heart of India. This is now the case, and at several stations well disciplined and efficient corps of volunteers have been formed by the railway servants.

39. But while Europeans are employed as superintendents, locomotive foremen, Native serdrivers, and so forth, the work in the shops is principally performed by natives, whose wages are in about the proportion of annas to rupees compared with Europeans. The management and economy observable in these large workshops reflects great credit on the officers of the locomotive departmen; of the railways, who have established them and who have trained the natives to their present state of efficiency. The swarthy arms of stalwart natives may be seen dealing blows worthy of English strikers at the forge, and the nimble fingers of mere children, directed by sharp eyes, may be seen manipulating minute parts of machinery. Natives are also being gradually trained to manage the locomotive. Many of them fill the position of station-masters, clerks, and assistants to traffic managers, as well as accountants and guards. In order to ensure the efficient discharge of their duties by the railway employés, whether European or native, it is necessary that they should he able to understand each other clearly. The European officers and servants should accordingly enable themselves to communicate with the natives under them in their own language, the acquisition of which colloquially should be a requisite qualification for premotion. Encouragement is now given by the grant of bonuses to those who pass an examination in a native language.

40. Advantage would, I think, be gained by more frequent intercourse between between the chief officers of the various undertakings. Different circumstances bring out different methods, and while a certain uniformity of management is applied to B 3

vants.

Intercourse officers in different parts of India.

the railways, it is easy to conceive that, in a country like India, when working out details, the practices in the south may vary from those in the north. Useful hints might be gained from either, but there has hitherto been no systematic attempt to exchange ideas or to communicate information. In my rapid tour I had the opportunity of observing that, on some lines, a botter plan was followed than on others with regard to matters applicable to all. Much more would Agents, Traffic Managers, Locomotive Superintendents, and Engineers of long standing in their several departments detect improvements or defects and be able to interchange useful experience and arrive at satisfactory conclusions.

41. As an illustration of the useful effects of this kind of intercourse, I may mention that the Bombay Government was good enough to comply with my suggestion that Colonel White, R.E., the Deputy Consulting Engineer at that Presidency, should accompany me over the Oude and Rohilkund system. Colonel White had been many years in the Railway Department at Bombay, but he had never been further north by tailway than Jabbalpur, where the Great Indian Peninsula joins the East Indian Railway. He was now able to compare notes between the lines he was familiar with in the Bombay Presidency and those in Oude and Rohilkund. /The results of his observations have been given in an interesting report, which describes the mode in which the railway is managed, and directs attention to various points which he considered worthy of imitation on other lines. Referring to the traffic department of that railway, he says :---

"There are only two classes of carriages, upper and lower. In the upper, or first class, the fare is only nine pies per mile against 15 to 18 pies on other lines; and a reserved compartment, with washing arrangements complete, can be procured for three annas a mile; the charge for this on the Great Indian Peninsula is six annas.

"In the lower class the fare is two pies, and for those who wish to be exclusive, reserved accommodation is procurable for three pies, or a whole bench can be reserved for nine pies: and there are in every train two compartments reserved for poor Europeans or Eurasians who choose to pay the higher three pie fare. On the Bombay lines there is no reserved accommodation in the third-class for Europeans only, and to give such accommodation would entail half a third-class carriage being given up for that purpose; but the Oude and Rohilkund carriages being all built in compartments, the matter is very easily arranged.

"A lower class carriage of six compartments is also reserved for females, but it is optional with them to use this carriage or not; on the Bombay lines the women are forced to travel separately.

"The lower class carriages give almost the same sitting accommodation as the second class on other lines, and in exterior appearance are quite equal to them, the seats are 16 inches wide, with a space between them of 19 inches.

"Speeds, are low, 15 miles an hour, including stoppages, but excepting this there can be no doubt that the Oude and Rohilk und treat their passengers more liberally than any other Indian line; fares are very low and accommodation is good; as far as I could learn, their system meets the wants of the travelling community very well."

"All the passenger service is given in mixed trains: and passengers travelling by these trains can book their goods at luggage rates, 27 pics a ton, and carry them off with them when they reach their destination. This suits the native mind, which is haturally suspicious, and for the mere advantage of travelling with their own goods, and taking them away with them, thus insuring a little more despatch, many merchants readily pay a rate double as high as that by the ordinary goods train.

"The classification of goods is extremely simple and the rates are low. The classes are special low, middle, and high, and any trader by an inspection of the rates board, hung up at every station, can tell at once what it will cost him to carry a maund of roods in any one of these classes to any station on the line. The terminal charge, which is one pie per maund, is included in the rate, but no terminal is charged for distances over 60 miles.

"So far, therefore, as the Oude and Rohilkund Railway is concerned, it is an easy matter for anyman of ordinary intelligence to find out what it will cost to carry goods throughout any portion of the system : his difficulties, and those of the station clerk too, commence when the goods pass over on to foreign lines, and until the traiffs of all Indian lines are far more simple than they are at present, these difficulties will always act in a certain measure as a bar to through traffic. A uniform triff throughout all Indian railways would be an immense boon."

The Oudh and Rohilkund Railway,

42. Thus has this railway been adapted more than any other in India to the wants and usages of the people : and it is very desirable that the success of its arrangements should be known to others. They were started by the late Agent, Major-General Beadle, R.E., and have been improved, as experience was gained, by his successor, Colonel Jenkins, of the Staff Corps.

43. The coal fields at Kariballi, Mopani, and Wurrora, which we visited, presented Coal fields. scenes of great activity and furnished proofs of the progress which the country is making in material wealth. The Bengal coal fields at present yield the greatest quantity and the best quality. It remains to be seen what the mines of Mopani and Wurrora will produce when their operations are more advanced. With good management there would seem to be very fair promise of success. It is very important for the interests of the railways in Central, and I might add Western India, /that a supply of good coal at a moderate cost should be obtained from these sources. -

44. There are large accumulations of railway stores in possession of all the railway Surplus companies, stores which are, to a great extent, not wanted by the particular stores. companies holding them and some of which are unserviceable. At Multan acres of ground were covered with iron bowl sleepers, belonging to the Scinde, Punjab, and Delhi Railway Company. They had been there for years, and a State railway close by had just been constructed with wooden sleepers. The time has arrived when the question, how such surplus stores should be dealt with, may properly be decided. Some systematic plan should be agreed upon for reducing the present stocks and relieving the capital invested in them. It is estimated that the value of stocks now in excess of that which will be required as a standard amount is about 3,000,0001.

45. The State lines are likely to multiply in the future. We went over those State lines. which were open for traffic. The most important are the Rajpootana metre gauge lines before mentioned. They are ably managed by Captain Kellow Pye, R.E. With regard to the general administration of the State railways, whether open or in course of construction, the tendency would seem, from what I was able to gather, to be too much in the direction of centralization. This is, perhaps, the natural consequence of direct Government superintendence; but it is one which, besides having a depressing and disheartening effect upon the local officers and their staffs, will interfere with individual responsibility and unduly restrict free and decided action. Another important matter to bear in mind, in connection with these State lines, especially after they have once been commenced, is the necessity for supplying funds to the local officers so as to enable them to carry out their engagements, and to avoid those delays and stoppages which are not only detrimental to the works in hand, but which lead to extravagance and waste in the end.

46. The construction of feeder roads to stations on the railways is a matter Feeder of great importance. The Government regard it as such, and in a minute dated roads. the 21st October 1873, lays down the principle that "The Supreme Government " now retains the responsibility for the provision and maintenance of the railway " system throughout India, and leaves to the Provincial Governments and Ad-"ministrations that of the provision of roads." The advantage of constructing roads in the neighbourhood of railways as feeders to them is pointed out and the belief is expressed that "expenditure on such roads will afford a more effective and economical result than outlay in any other direction." The native princes through whose territories railways have been constructed, with the help of Government, are also encouraged to adopt the same course. It is to be hoped that this policy will be effectual, but there are still complaints of the want of good roads to stations. The Lieutenant-Governor of the North-West Provinces has taken up the question, and has decided to commence, during the present year, " certain changes which, followed up, will tend year by year towards a systematic " plan of roads, feeding directly the railway, or subserving the commerce" of those provinces.

47. The extension of the railway system has naturally attracted attention to the Manufacture importance of obtaining, if possible, a supply of iron from native sources. iron ore exists in several districts in India, its quality or the situation of the beds in which it was found has not favoured its manufacture. Hitherto the cost of conveying the iron to the nearest market would have been greater than the article could bear. But as railways approach the localities and the means of transport is thus provided, one obstacle is removed. The supply of fuel and of proper fluxes has also been a difficulty which further research and the connection

While of iron in .

of various districts containing the necessary materials may remove. In 1872, Mr. Bauerman, an experienced mineralogist, visited the various places in India where iron ore was known to exist as well as the localities where coal is found, with the view of ascertaining the prospect of successfully producing iron. Previously to leaving India he made a brief report on the result of his examinations, in which he remarked, "The problem to be solved is not a simple one, as " there appears to be no single locality in which all the requisites for the pro-" duction of iron can be obtained to advantage on the spot. The Kumaon Works " seem to be the most favourbly situated in this respect, but Mr. Ramsay, the late " manager, has left on record his opinion that cupra ores are necessary to make " iron profitable, and that information is required as to the capacity of the forests " for yielding wood and charcoal for carrying on the works on a large scale with. " out being destroyed." Mr. Bauerman also alluded to the question of conveyance, and stated that in his opinion "very much lower rates would be necessary than those now charged by the Railway Companies for the carriage of minerals." The only iron works now in operation are at Raneegunge. They are in the hands of a company which has the command of a good supply of line. Smelting was commenced in the spring of this year, but sufficient time has not yet elapsed to enable a report to be made of the result. It is to be hoped also that the old Kumaon Works will soon be again revived, when railway communication advances nearer to them.

Military use of railways.

48. Towards the end of the year, a committee was appointed by the Commanderin-Chief, Lord Napier of Magdala, of which Lieutenant-General Sir Charles Reed, K.C.B., was the president, to consider how railways can be made most available for military use in India. As a preliminary step experiments were made at Delhi under Sir Charles Reed's directions with the vehicles of the Sindh, Punjab, and Delhi line. "A squadron of the 10th Hussars, and 123 horses, including " officers' chargers, 68 grass-cutters ponies, with baggage, camp equipage, ammuni-" tion, doolies, &c., fully equipped for field service, were embarked in high-sided " waggons, and the train ready to start in 39 minutes. The unloading and fixing " of horse ramps took $2\frac{1}{2}$ minutes and dismantling and re-loading ramps " $1\frac{1}{3}$ minutes. . . The baggage was brought alongside covered goods waggons on " 80 camels, the weight being 674 maunds. By heaping up the baggage from " the line of rail to the side doors of the waggons, a ramp was thus formed; and " the whole, including camp equipage, &c., was loaded in 27 minutes, with the " aid of a working party of 25 infantry." Orders were then given to move the train across the Jumna. When the train was pulled up, the waggons were disconnected, ramps fixed at either end, and the horses and men were out and ranged along the railway bank in 28 minutes. Re-embarking was accomplished in 32 minutes and the dis-embarkation, on the return of the train to Delhi, in 27 minutes. . ¥

minutes. 49. Another experiment was made with an Armstrong battery. "The whole " battery, consisting of three 40-pounder Armstrong guns, two 8-inch and two " $5\frac{1}{2}$ -inch mortars, with seven waggons, two store carts, 134 bullocks, including " camp equipage, baggage, &c., fully equipped for active service, were embarked " and ready to move in 40 minutes. The train reached Ghazecabad " (about ten miles distant) safely without a single mishap, and proving satis-" factorily that the floors, springs, and bolts of the Sindh, Punjab, and Delhi " Railway trucks were fully equal to this severe test. The guns and bullocks " were disembarked, the first gun being brought into action by the side of the " line in eight minutes, the second in 13 minutes, and the third in 24. These " three guns were reloaded in $12\frac{1}{2}$ minutes, showing thereby what could be done " with a little practice." The ramps and girders designed by Sir Charles Reed for the end-loading system were generally approved of. This system is strongly advocated by Sir Charles Reed, and there appears to have been a general concurrence of opinion that it is very well adapted for military purposes. The only doubt was whether waggons so constructed would be equally suitable for their ordinary commercial purposes, and the railway members of the Committee, with the exception of Mr. Henry P. Le Mesurier, C.S.I., the Agent of the Great Indian Peninsula Railway, made objections to the proposed alteration in the rolling stock, on the ground that the vehicle would be weakened and rendered less serviceable. This difficulty, however, will probably be got over; but as the cost would be considerable, the change, if applied generally, should be gradually proceeded with. The experiments above described were confined to the 5' 6" gauge, as no vehicles of the metre guage were available.

ACCIDENTS.

50. During the year 1875 one very serious accident happened, by which nine passengers were killed and 13 were injured. Other passengers have lost their lives while travelling, but this was the only case which occurred from causes beyond the control of the sufferers. It took place on the 14th August, on the Jubbulpore branch of the East India Railway, and is thus officially reported : "The engine " of a down mail from Jabbalpore left the rails when going at high speed about " three miles from Katnee, and the carriages over-rode each other and became a " complete wreck except from in the rear, the line for a distance of 50 or 60 yards " being completely broken up. The accident is supposed to have been caused by " the engine running over the cow-catcher which had worked loose and dropped " on the rails."

51. It will be seen by the following Tables, which were prepared in India, that the number of passengers who, during the year, were killed through their own misconduct or want of caution was nine, and that 28 were injured from similar causes. One was a prisoner who attempted to escape by jumping out of the train. The most fertile cause of accidents is the attempt on the part of passengers to get out of the trains while they are in motion.

52. Of railway servants, eight were killed and 25 injured from causes beyond their control: and 93 were killed and 173 injured by preventible causes. Seventy-two persons were run over and killed while trespassing, and eight were injured in the same way. The large number of accidents from this cause would seem to indicate that the danger incurred by trespassers is hardly understood, and suggests whether greater precautions might not be taken to warn people against walking within the boundaries of the railway.

53. It will be seen that the total number of accidents to trains was 868 compared with 767 of the previous year: that 405 of them were cases of running over cattle which had trespassed: 59 were collisions: 151 were from getting off the proper line, and 148 from a variety of other causes.

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TABLE No. 1.

ABSTRACT of the NUMBER and NATURE of the ACCIDENTS and of the INJURIES to LIFE and LIMB which have occurred on all Railways open for Traffic in India during the Year 1875.

| [| | | Clas | sification | n of Acc | idente to |) Trains, | đc. | | Passe | ngera. | | Berva | nts of Co Contra | ompanies octors. | or of | | | Oth | lers. | , | | m .(| l Person | |
|----------------------------------|---|--|--|---|-------------|---|---------------------|---|--------------------------|----------|---------------------------------|---|----------------------------|----------------------------------|---|---|---------------------------|----------|--|--------------------------------|----------|------------------|---|---|---|
| Under the Control | ge open: | Railways. | | Ma | in Head | le. , | | | From beyond own Co | l their | From th Miscone want of (| duct or \ | From C beyond own Co | their | From th Miscond want of C | luct or | Whilst c at L Cross | evel | While passing ding S | t tres- (inclu- uicido), | Miscell | nnc ous . | 2018 | 1 Classee | • |
| of the Government of | Mean Mileage | D 2011469 | L. Collision. | II. Getting off proper Line. | III. Pine. | IV.Ronning overCattle. | V. Other Causes. | Total. | Killed. | Injured. | Killed. | Injurad, | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed | - Injuređ | Killed. | Injured. | Killed. | Injured. | Killed and Injured. |
| India -{ Madras { Bombay { | $\begin{array}{c} 1,5034\\ 1,5035\\ 1,5035\\ 1,584\\ 542\\ 5524\\ 5524\\ 5556\\ 1097\\ 28\\ 28\\ 28\\ 28\\ 27\\ 28\\ 28\\ 27\\ 344\\ 178\\ 56\\ 366\\ 62\\\\ 44\\ -\\ 8563\\ 8563\\ 2186\\ 1,420\\ 1,420\\ 450\\ 444 \end{array}$ | Rast Indian - 1875 1874 Eastern Bengal 1875 1874 Oudh and Rohilkhand 1875 1874 Oudh and Rohilkhand 1875 1874 Oudh and Rohilkhand 1875 1874 S. P. & D. Section. Section. 1875 1874 Calcutta and South- eastern (State). 1875 1874 Naihati - - Holkar - - Holkar - - Punjab Northern - 1875 1874 Younjab Northern - 1875 1874 Madras - - South Indian - Sunia (a). 1875 1874 1875 1874 Bombay, Barolia, and Central India (b). 1874 | $ \begin{array}{c} 4\\ 96\\ -1\\ 1\\ 17\\ 5\\ 7\\ -\\ -\\ -\\ 4\\ 3\\ -\\ -\\ 4\\ 3\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\$ | $ \begin{array}{c} 1 \\ 21 \\ 2 \\ 32 \\ 7 \\ 7 \\ 14 \\ -1 \\ -1 \\ 20 \\ 19 \\ 46 \\ 1 \\ 1 \\ -1 \\ 18 \\ -7 \\ 18 \\ -7 \\ 18 \\ -7 \\ 18 \\ -7 \\ 18 \\ -7 \\ 81 \\ 15 \\ 8 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7$ | 8 20 | 181 184 7 1 51 18 5 4 22 15 17 31 4 22 15 17 31 4 2 8 1 12 9 9 | 18 6 | 157 267 9 2 123 55 34 45 57 55 44 17 87 6 94 94 9 9 2 1 94 92 21 24 125 106 42 232 | 91 | | | $ \begin{array}{c} 18\\17\\8\\1\\2\\1\\-\\-\\-\\2\\1\\-\\-\\-\\-\\-\\-\\-\\-\\-\\-\\-\\-$ | | 3 13 4 8 | $ \begin{array}{c} 25 \\ 97 \\ 5 \\ 6 \\ 97 \\ 5 \\ 4 \\ -1 \\ -1 \\ -3 \\ 8 \\ 9 \\ 1 \\ -1 \\ -5 \\ 6 \\ -3 \\ 5 \\ 10 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5$ | 46 70 13 9 19 7 6 4 2 2 - 1 1 2 2 7 1 1 2 2 9 10 11 | | | 36 51 4 1 4 5 6 - 1 - 1 2 35 2 9 5 2 9 5 2 | | | | 87 103 9 7 21 14 11 11 1 1 1 1 1 1 1 1 1 1 | 82 132 17 10 255 13 7 2 3 | 169 235 26 17 46 82 24 18 3 1 2 2 2 2 2 3 10 13 4 1 13 4 11 8 9 134 108 27 85 |
| Total Indian Railways | 6,373 3 6,022 2 | }{ ¹⁸⁷⁵ ₁₈₇₄ | 59 68 | 151 103 | 105 92 | 405 407 | 148 97 | 868 767 | 9 1 | 28 43 | 9 12 | 28 27 | 8 18 | 25 41 | 98 98 | 175 140 | 7 11 · | 2 | 72 77 | 8 16 | 10 14 | 6 9 | 208 291 | 267 278 | 475 499 |

(a) Includes Wardha Valley, Nisam's, and Berar State Railways.

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(b) Includes Dubhoe Branch Railway.

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|---|--------------|-------------------------------------|----------|---|---------------|--------------------------------|--------------|-----------------------|-----------|------------------------|--------------------|---------|---------|---------------------|---------|---------------------------|---------------------------|------------------|-----------------------------------|-------------|----------|---------------------------|-------------------|-------------------|---|---------------------|------------------|--------------------|-----------------------------|---------------|--------------------------|
| | East I | | | stern ngal. | Ondi Bohil | and kund | Pur and 1 | ijab Jelhi. | ភ្នំ | nd, | Calc and Sc | outh- | Nalt | na ti, | Rajpu | utana, | Holk | ar. 1 | North- ern. | Tir | hut. | Mad | iras. | South | Indian. | Great Peui | Indiau nsula, | Bomba & Cent | | 9. I. | Total. |
| | Killed. | Injured. | Killed | Injured | Killed. | Injured. | Killed. | Injared. | Killed. | Injured. | Killed. | Injured | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed. | Injared. |
| Passengers, | | | | | 1 | | | | | | | | | | - | • | | <u>- </u> | | <u>] - </u> | | | | | | | 1 | | <u>-</u> · . | | |
| from causes beyond their own control, | | | | | | | | | | | | - + | | | | | | | | ſ | | | | | | - | ł | | | ĺ | |
| rom accidents to trains | 9 | 1 <u>8</u> 8 | •• | | | | | i | 4. . 1 | | ••• | | •• | •• | •• | · "i | | | | | | | ï | •• | | | 8 | | | 9 | 18 7 |
| Total | 9 | 16 | | | | •• | ••• | 1 | •• | | i | -1 | | | ••• | 1 | — | l- | | -} | | - <u>.</u> . | 1 | <u>-</u> | í í | · | 4 | | ¦ | 9 | 28 |
| Per million of passengers Per million of passenger miles | | 2·523 0·033 | : | :: | | | :: | 0 465 | | :: | | :: | | •• | ••• | 1.949 | | -1- | | | :: | | 0°366 0°007 | | : | ** | 1.197 | :: | | 0.841 | 0.875 |
| From their own misconduct or in- | 6 | 13 | | 8 | 8 | | | 5 | | | | | | | <u></u> | | | | - <u> </u> - | | | | | | | | 9 | | 1 | 8 | |
| Per million of passengers Per million of passenger miles | 0.946 | 8.050 0.027 | •••• | 1.656 | 1.259 | 0.839 | | 2.823 | | | | | | | | 1 1 949 | 5 | • 486 | <u>. .</u> | - | | | | <u>.</u> | | | 0.999 | | | | 1.070 |
| Total from all causes | 15 | 29 | | 8 | 8 | 8 | · • • | 6 | <u></u> | | | | | ·· | <u></u> | 01035 | <u> </u> | <u> </u> | ··· | - | | | | | | <u></u> | 6 | | | 18 | 51 |
| SERVANTS OF COMPANIES OF OF CONTRACTORS. | | | | | | | | | | | | | | | | <u>.</u> | | | 1. | | | | | | | | | | | · | |
| From causes beyond their own control | 5 | 8 | •• | 1 | 4 | 4 | •• | | | | | | | | | | | | | | | | 8 | : | | 1 | 12 | | 3 | 8 | 25 |
| From their misconduct or incaution - | 25 | 46 | 5 | 18 | 9 | 19 | 5 | 6 | | 2 | | | | •• | . 3 | | | | . 1 | 1 1 | | 5 | 12 | •• | 1 | 35 | 61 | 5 | 10 | 93 | 175 2 |
| Total from all causes | 28 | 49 | b | 14 | 18 | 23 | 5 | 6 | •• | | | | | | • 8 | 4 | | [| . 1 | -[]. | •• | 5 | 14 | | 1 | 30 | 73 | 5 | 13 | 101 | 200 8 |
| OTHER PERSONS. | | } | | | 1 | • | | | | | | | | 6 | | | | | | | | | ÷ | | | | | | | | |
| Crossing at level crossings Treepassers, including suicide Miscellancous | 2 86 6 | | 4 | | 1 | •• | ë | i | i | | - 'i | ï | :: | •• | ï | :: | | 1 . | | | | 1 | i | 2 | : | 1 9 8 | 2 1 8 | 2 6 | :: | 7 72 10 | 1 8 8 |
| Total from all causes | 44 | 4 | 4 | | 5 | | •• | | 1 | <u></u> | | | | <u></u> | | <u> </u> | | <u> </u> | - 2 | - | | 8 | | 2 | | - 13 | 6 | | <u></u> | | |
| Grand total of all classes from all causes | 87 | 82 | 9 | 17 | 21 | 26 | 11 | a 18 | 1 | | | 1 | | <u></u> | 4 | | | | | | | 8 | 16 | 2 | 1 | 49 | 85 | 18 | | | 267 41 |
| Mean length of railway open during the year (miles) Number of passengers carried Train mileage (goods and passengers) Passenger mileage | 6,3 5,9 | 1,503 41,800 50,239 69,430 | 1,6 | 158 } 11,345 518,950 51,500 | | 842 2,287 5,413 2,700 | 1,11 | 553 2,257 3,048 | 23 | 1091 0,897 4,585 | 489 89 4,509 | 720 | | 271 .054 .490 | 513 | \$44 145 253 | 182,2 185,4 5,926,3 | 62 | 62 65,175 46,983 154,099 | 47.7 | 4 | 2,780 2,117 184,123 | U 6U | . 8 | 2161 48,527 134,653 100,923 | 1 3,341 4,382 | | 1,1: | 400‡ 72.01.1 24.639.‡ | | 6,37 157,61 355,97 |

• Includes the Nizam's, Wardha Valley, and the Berar State Bailwaya. . .

† These figures appear to be for the G. L. P. Railway only.

1 Includes the Dubhoc Branch.

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| • | | | UNDER THE CONTROL OF THE GOVERNMENT OF INDIA. Government of INDIA. Bastern Beugal. Oudh and Robiikund. Punjab and Doihi. Siod. Calcutta and South-oastorn. Nalhati. Bajputana. Holkar. Punjab North- orn. Tirhut. Mi i <t< th=""><th></th><th></th><th>NTROL TOF M</th><th></th><th>UNDER GOVE</th><th></th><th>ONTROL T OF BO</th><th></th><th></th><th></th><th> </th></t<> | | | | | | | | | | | | | | | | NTROL TOF M | | UNDER GOVE | | ONTROL T OF BO | | | | | | | | | |
|---|---------------|------------------|---|-----------------|------------|-------------------|-----------|----------------|---------------|---------|---------------------|----------|------------|-------------|-----------|--------------|---------|------------|-----------------------|-------------|---------------|----------|-------------------|---------|----------------|----------|----------------|---------|----------------------|--------------|------------------------------|----------------|
| CLASSIFICATION. | Bast | Indian | | | Ou Rohi | dh and ilkund, | Pu and | njab Delhi. | Sied | | | | Nall | hati. | Rajpu | itopa. | Hol | kar. | North | b - Tirl | hat. | Mad | °20. | Bouth | Indian. | | | | Baroda, al India, | 2 | otal. | |
| (12351316210). | Killed. | Injured. | Killed. | Injured | Killed. | Injured | Killed. | Injured. | Killed. | -Panjar | Killed | Lajared. | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed. | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed | Injured. | Killed. | Injured. | Killed. | Injured. | Injured. |
| -PROM CAUSES BETOND THEIR OWN CONTROL- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c.) Servants employed on trains in motion— 1. Collisions 2. Trains running into sidings or off | 41 | | | | | 1 | •• | ** | | . . | •• | | | | | •• | | | | . | | •• | | | | | 8 | | 2 | • | 6 | 6 |
| their proper line, through points being wrong 5. Trains or enginessetting off rails 4. Accidents from defects in rolling | | ** | | | - 3 | | | | | | | | | | | | | | | | | •• | | :: | | :: | ŝţ | :: | | -:5 | ė | ii |
| stock 5. Miscellancous | :: | i | | | 'i | | | | | | | | | | | | | | | | | * 1 | 2* | ••• | | | 2 | | :: | ï | 1 5 | 1 6 |
| , Total | 8 | 8 | | 1 | 4 | 8 | ••• | | | | ••• | | • • | <u></u> | | •• | ••• | <u></u> | | | <u></u> | •• | 3 | | | | 10 | ••• | | 6 | 81 | 27 |
| (b.) Servants employed in stations or on lines— 1. Run over or orushed between buffers while coupling or un- coupling carriages and wagyons 2. Run over while shunking trains- 3. Run over or struck while per- forming their duties 4. Miscellaneous | :. :. I | | · | · · · | | | ··· | مو مد | •• • | ·· · | ••• | •• | ••• | ••• ••• | ••• •• | •• | | | | • |]] | | | | •• | | | ** | :: i | 2 | 2 | |
| Total | 1 | · | | • | | 1 | | | | | | | | | ••• | •• | ••• | | | | | | | | | 1 | 2 | - | 1 | 9 | 4 | 6 |
| -FROM INCLUTION OB MISCONDUCT:- (a.) Servants employed on trains in motion- 1. Collisions 2. Attempting to get upon, or off, or falling from engines or carriagos in motion 3. Miscellancous | | 1 ,8 9 | 1 | 3 | | 1 | | \$ | | ı . | | | ••• | | 1 | 8 1 | | ••• | ••• | | •• | 1 | 5 1 | | - 1 | 5 | 11 | 1 | 1 | 1 12 5 | | 18 46 15 |
| Total | . 4 | n | 1 | 8 | 1 | • | 1 | 4 | | 1 | | | | •• | 2 | 8 | 1 | ••• | · | | | 1 | | | 1 | 8 | 11 | 8 | 4 | 18 | 46 | 84 |
| (b.) Servants employed in stations or on lines— Ram over or crushed between buffers while coupling or un- coupling carriages or wagcons- Run over or struck while shunt- ing trains | 8 | | | | 1 | | | • | | | - | •• | ••• | •• | | 1 | - | • | | • | | •• | ī | •• | ••• | 9 | 6 | | | 5 | - | - 1 |
| Run over or struck while in- cantiously standing or walking upon the line Miscellaneous | 1.5 | 13 12 14 | 8 1 | 4 | 4 8 | 18 | | 2 | | | • | | | | ,1 | •• | | | | i | ••• | 2 8 | 1 | •• | | 5 23 | 18 7 25 | 2 1 | 1 4 | 61 | 25 | 76 80 |
| Total | 21 | 85 | 4 | 10 | 8 | 15 | 4 | 8 | ╎╌┯╍╎╌━ | | | | | ••• | 1 | 1 | | | —l— | 1 | | ** | 9 | | | 80 | 50 | 8 | 6 | 78 | 129 2 | 104 |
| Grand Total | 28 | 49 | 5 | 14 | 18 | 28 | 6 | 6 | | 8 | | •• | | | 8 | 4 | 1 | | •• | 1 | | 5 | 16 | | 1 | 86 | 78 | 5 | 13 | 101 | 200 8 | 01 |
| Train mileage Number of servants employed | | 50,289 19,323 | | 18,080 4,145 | | 5,418 2,234 | | 3,643 7,465 | 974.8 8,24 | | 8 9,71 20 | 80 04 | 3 0 | ,490 141 | | .258 ,427 | 135, | 462 391 | . 46 ,98 38 | | 918 187 | | 7,060 6,759 | | 4,085 2,074 | | 2,199 4,647 | | 1639 184 | 17, | 88 ⁸ ,97 67,42 | |

TABLE No. III.-CLASSIFIED ABSTRACT OF ACCIDENTS to SERVANTS OF COMPANIES OF OF CONTRACTORS ON all Railways open for Traffic in India during the Year 1875.

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* In one of these cases the under guard, who was pushed out of his van by the door closing upon his back, did not, it is said, receive any injury, but yet he is classed with the injured. + The accident in which these five men were injured occurred to a lorry.

| ſ | | | r | ·=_ | | | | | | 1 | Passe | ngers. | | Serv | ants. | | Тгевра | aers, &c. | | Total. | |
|---|------------------------------------|------------|------------------------------|---------------------------------------|-------------------------------------|-----------------------|---|---|--|--|---------|----------|----------------|-------------------|----------------|---------------------|--------|-----------|---------|----------|-----------------------|
| 1 | nder the Co of the Governmen | | Mean Length of Railway | Total Number of Train Miles. | Train Miles per Mile open. | Passenger Mileage. | Passenger Milenge per Mile open. | Total Number of Accidents to Trains, &c. of | Total Number of Passengers carried. | Average Number of Passengers per Mile | | | Beyon own C | d their outrol | Withi own (| n their Iontrol. | 뒿 | Injured. | Killed. | Injurod. | Killed and Injured |
| | Governmen | | open. | 211169. | | · · · · | open. | all kinds. | , and the second second | open. | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | Killed | Į. | R | E E | <u></u> |
| - | | 1875 | 8,4287 | 9,430,987 | 2,750 | | | 586 | 14,867,165 | 4,190 | 18 | 43 | 7 | 8 | 48 | 91 | 63 | 9 | 186 | 151 | 287 |
| I | ndia - | 1874 | 8,115 4 | 10,803,722 | 8,470 | — <u> </u> | _ | 518 | 13,094,692 | 4,206 | 10 | 42 | 2 | 21 • | 55 | 98 | 82 | - 17 - | 149 | 178 | 322 |
| | ۱ | 1875 | 1,075 | 2,451,153 | 2,280 | 182,330,714 | 169,610 | 115 | 4,277,304 | 8,979 | - | ~ 1 | - | 2 | 5 | 18 | 5 | 1 | 10 | 17 | 97 |
| 1 | Madras { | 1874 | 1,042 | 2,236,847 | 2,144 | 183.820,849 | 176,242 | 116 | 4,305,238 | 4,128 | 1 | 8 | 3 | 6 | 6 | . 7_ | 8 | | 18 | 16 | 84 |
| | ſ | 1875 | 1,870 | 5,506,837 | 2,945 | - | _ | 167 | 7,513,143 | 4,018 | _ | 7 | 1 | 15 | 40 | 71 | 21 | 6 | 62 | 99 | 161 |
| | Bombay | 1874 | 1,864 | 4,942,384 | 2,651 | - | - | 198 | 7,158,695 | 3,838 | 2 | 25 | 8 | 14 | 32 | 40 | 12 | 10 | 54 | 89 |]43 |
| ľ | | [1875 | 6,373 | 17,389,977 | 2,728 | | · | 868 | 26,157,612 | 4,104 | 18 | 51 | 8 | 25 | 98 | 175 | 89 | 16 | 208 | 267 | 475 |
| | Total - | 1874 | 6,022 | 17,982,408 | 2,987 | - | _ | 767 | 24,553,620 | 4,079 | 18 | 70 | 18 | 41 | 93 | 140 | 102 | 27 | 221 | 278 | 499 |

TABLE NO. IV. Showing the TOTAL NUMBER of Accidents to Persons of all kinds, and to TRAINS, &c., on all RAILWAYS open for TRAFFIC during the Year 1875.

* Includes the Wardba Valley, the Nizam's, and the Berars State Railways, which are worked by the Great Indian Pepinsula Railway Company, and the Dubboe Branch which is worked by the Bombay, Baroda, and Central India Railway Company.

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CAPITAL.

54. The total amount of capital expended on railways in India to the 31st December last as regards State lines, and to the 31st March last as regards guaranteed lings, was 105,790,9291. Of this, 93,720,7941. was defrayed from guaranteed Share Capital, Debentures, or Debenture Stock issued by the companies, and 12,070,1351. was expended direct by the Government. During the year to the 31st December last, the expenditure on State lines was 2,760,9401., of which 2.084,2971. was expended in India, and 676,6431. in England; and in the year to the 31st March last guaranteed capital is estimated to have been spent to the extent of 1,279,0001. The capital which has been raised by the companies under the guarantee amounts to 95,072,4411., of which 83,697,3221. is Share Capital, 5,691,5701. Debentures (299,5201. being convertible into shares), 5,129,8781. Debenture Stock, and 553,6711. capital not bearing interest. Full particulars are given in the tables at pp. 23 to 27 prepared in the office of the Accountant. The following list shows the different rates of guaranteed interest paid by Government :---♦ 1.1 +

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| Share Ca Do. | do. | 4 <u>\$</u> | | 1 | - | • | • . • | | <u> </u> | . • | - | 81,923,520 1,273,802 |
|-----------------|---------|------------------|-------|------|--------------|------------|-------|-------|----------|----------|------------|-------------------------|
| Do, | do. | 4 \$ | 199 | Ý | • | - | | | - | · • | - | 500,000 |
| Debentu | res | 5 | | 4 | - | • | - | | - | · · · · | - - | 1,380,37 |
| Do. | do، | 4늘 | 33 | Ξ, ž | | - , | | 1.1 | - | • | - | 183,450 |
| Do. | do. | 4 <u>1</u> | | G | . . . | | - | • • • | - | <u>.</u> | . | 2,096,40 |
| Do. | do. | 4 | de la | - 1 | | • • • | : - | | | | •. | 2,031,35 |
| Debentu | re Stoc | k 4] | 83 | | - | | | | • 1 | | · | 1,925,000 |
| Do. | do. | 4 | | - | | - | - | | - | - | | 3,204,878 |
| Capital 1 | not han | mina | inton | oot | <u>.</u> : | | _ | | | ` | - | 553,67 |

The manner in which this money has been approximately expended may be seen by the subjoined statement !---

| Railway. | Works and Bridges. | Permanent Way, Stations, &c. | Freight and Insurance. | Rolling Stock and Engines. | Establish- ments. | Miscel- laneous, Electric Telegraph, Stores, &c. |
|-----------------------------------|-----------------------|------------------------------------|---------------------------|----------------------------------|-----------------------|--|
| East Indian | £ 9,615,000 | £ 7,145,000 | £ 3,000,000 | £ 3,655,000 | £ 3,785,000 | £ 3,850,000 |
| Great Indian Peninsula - | 9,450,000 | 7,574,000 | - | 2,875,000 | 1,626,000 | 1,310,000 |
| Madras - | 3,455,000 | 3,845,000 | · · | 1,108,000 | 888,000 | 455,000 |
| Bombay, Baroda, and Central India | 8,265,000 | 2,168,000 | | 1,105,236 | 780,000 | 459,000 |
| Scinde, Punjab, and Delhi - | 2,342,000 | 3,409,000 | Flotilla. 376,160 | 1,958,000 | 1,090,000 | 796,000 |
| South Indian | - 775,000 | 916,000 | | 296,000 | 385,000 | 260,000 |
| Eastern Bengal | 2,24 | 8,000 | Flotilla. 75,000 | 318,070 | 837,000 | 99,ÒDO |
| Oude and Rohilkund - | - 1,280,000 | 2,802,000 | | 588,000 | 552,000 | 617,000 |
| | | N. | | | [. | |

STATEMENT No. 1.

STATEMENT OF EXPENdITURE in ENGLAND and INDIA ON INDIAN STATE RAILWAYS, appropriated to the various Undertakings as shown in Statements to 31st December 1875, received from India.

| - | | Expend | iture appropr | iated. | | | | • | C | lassification | of Expen | diture. | | | · _ · | | |
|-----|--|---|--|---|--|---|---|---|-------------------------------|--|---|---|-------------------------|---|--|-----------------------------|---------------------------------------|
| - | State Railway. | England. | India. | Total. | Pre liminary Expenses, | Land. | Con- struction of Line: | Ballast and Permanent Way. | Stations and Buildings. | Electric Telegraph. | Plant. | Rolling Stock. | Main- tenance. | Establish- ment. | Con- tingencies. | Stupense Accounts. | Receipts on Capital Account. |
| C 4 | Panjab, Northern Indus Valley Hubli and Carwar - Wardha Valley, Coal - Holkar Neemach Rajpootana Western Rajpootana Nulhatee Calcutta and South-eastern Northern Bengal Scindia Nagpur and Chuteesghur Tirhoot Bangoon and Irrawaddy Valley Rangoon and Sittang Valley Moradabad, Deobund, and Roorkee Hathras and Mathra Section, Light Provincial Railway, | £ 468,749 434,610 2,502 38,075 260,551 286,751 718,983 | 2 1,421,603 1,706,276 52,792 287,921 707,722 273,604 1,612,935 43,936 422,418 449,852 32,066 8,778 230,493 178,011 3,864 2,852 92,551 | £ 1,885,852 2,140,886 55,294 968,273 510,255 2,331,918 43,936 30,000 690,801 667,615 83,214 8,778 320,384 244,849 8,864 2,852 92,551 | £ 25,511 61,207 4 8,487 3,252 20,617 25,692 3,578 6,769 7,356 1,841 1,117 1,415 1,818 547 52 92 | £ 22,884 9,637 78 4,452 27 88,481 108,507 28,398 381 8,587 990 | £ 967,740 646,406 -74,354 844,716 77,414 537,580 *30,000 104,596 108,243 2,193 -66,318 39,646 | £ 215,844 475,456 125,281 158,229 76,216 874,816 — 155,774 18,538 — 134,807 58,582 — 52,489 | £ 46,973 90,938 | £ 108 655 - | £ 107,390 72,961 8,613 29,052 11,761 29,855 2,006 8,270 14,026 4,301 470 10,948 8,434 84 173 | 2 49,518 23,129 241 85,914 23,594 230,610 | £ 9,586 1,172 | \$ 827,794 836,402 53,649 27,858 102,917 69,097 183,764 86,251 86,773 920,499 6,978 26,921 20,835 2,691 2,616 6,485 | 2 12,502 23,509 1,641 1,107 7,782 4,267 10,402 1,906 | 2 114,578 403,280 | 3,516 |
| | NATIVE STATES. Nizam's | 143,975 13,316 | 987,026 48,530 80,418 11,624 | 1,131,901 48,530 49,784 11,624 | 1,057 87 112 550 | 89 245 — | 396,623 10,921 9,418 | 467,990 29,328 25,259 | 91,920 4,638 4,844 | 125 110 | 16,055 348 302 831 | 9,168 32 15 | = | 110,279 2,838 3,806 9,994 | 4,724 234 128 249 | 87,101 — — | 3,014 |
| | Total - | 2,986,585 | 8,606,067 | 11,592,602 | 171,111 | 222,156 | 8,419,183 | 2,867,054 | 609,533 | 7,927 | 825,825 | 581,692 | 19,496 | 1,585,651 | 94,707 | 1,819,617 | 25,350 |

* This amount was paid to the Oude and Rohilkund Railway Company for purchase of the Line.

† Described in statement received from India as traffic charges.

Note.—The total expenditure in England on State Railways to 31st December 1875 amounted to 3,464,068/. The above figures represent only that portion of such expenditure as had been appropriated in India to the several undertakings to the date of the last advices received.

T. W. KEITH, Accountant.

India Office, 23rd May 1876.

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STATEMENT No. 2.

| Showing the AMOUNT of CAPITAL estimated to | be requ | uired for each Undertaking as no withdrawn, to 31 | w sanctioned, the Amount authorised to be ra st March 1876. | ised, the Amount raised, and the Amount | |
|--|---------|--|--|---|--|
| · · | | · · · · | | - 4 | |

| · · · | ł . | Am | ount author | rised to be r | aised on 31 | lst March | 1876. | Ar | nonnt raise | d in Engla | ad to Slat ! | March 1876 | | Amount : India to | | | Total |
|--------------------------------------|------------------------|-------------------|-------------------------------------|---------------------|---------------------|---------------------------------------|-----------------|---------------------------------------|-------------------------------------|-------------------------|----------------------------|-------------------|--|---------------------------------------|--|----------------------------------|---|
| • | Estimated | · . | Deber | ntures. | | Capital | | | Debe | ntures. | Debentu | re Stock. | | last A | | Total Amount | Amount withdrawn to |
| Railway. | Cost of Lines. | Share Capital. | Con- vertible into Shares. | Incon- vertible. | Debenture Stock. | not bearing Interest. | Total | Share Capital. | Con- vertible into Shares. | Incon- vertible. | Stock repre- sented. | Cash received. | Capital not bearing Interest. | Share Capital. | Capital not bearing Interest. | raised to 31st March 1876. | 31st Marcl 1876 (partly estimated) |
| East Indian-Main Line - | <u>₽</u> 27,750,000 | £ 22,835,380 | 윤 164,620 | £ 2,719,850 | * # 1,500,000 | £ 168,428 | £ 27,883,278 | £ 22,458,149 | £ 164,620 | £ 2,719,850 | £ 1,500,000 | £ 1,500,000 | £ 162,090 | £ 826,325 | £ 1,338 | £ 27,332,372 | £ 27,156,272 |
| Jubbulpore Line - | 8,250,000 | 3,200, 000 | - | - | | 48,249 | 8,248,249 | 8,189,850 | | | • | - 1 | 48,249 | 7,665 | - | 8,240,264 | 8,413,898 |
| Great Indian Peninsula - | 24,500,000 | 20,000,000 | | 1,904,250 | 8,065,800 | 229,602 | 24,599,152 | 19,064,125 | . — | 1,304,250 | 2,701,450 | 2,475,559 | 228,860 | 405,047 | 742 | 23,478,583 | 22,854,60 |
| Madras | 10,500,000 | 10,212,800 | 89,600 | | ч <u>—</u> | 9,898 | 10,812,298 | 10,193,201 | 89,600 | | <u> </u> | - | 9,898 | - | - | 10,292,699 | 10,090,144 |
| Bombay, Baroda, and Central India | 8,000,000 | 7,550,800 | 45,800 | 200,000 | <u> </u> | 85,887 | 7,880,987 | 7,528,628 | 45,800 | 200,000 | - | _ | 85,887 | 21,672 | - | 7,830,987 | 7,776,888 |
| Scinde, Punjab, and Delhi - | 11,000,000 | 11,418,900 | - | ÷ — | | 4,409 | 11,428,308 | 10,988,984 | — | - | - | - 1 | 4,836 | 86,258 | 67 | 11,079,640 | 10,643,041 |
| Eastern Bengal | 8,200,000 | 2,255,520 | | 462,850 | 411,308 | 2,288 | 8,181,466 | 2,238,996 | · , | 52,650 | 411,308 | 874,730 | 2,288 | 16,486 | | 2,685,150 | 8,082,136 |
| Oude and Rohilkund | 6,000,000 | 4,000,000 | | 1,115,800 | 384,700 | 8,352 | 5,508,352 | 8,575,581 | | 1,115,300 | 384,700 | 854,589 | 8,852 | 424,419 | | 5,478,241 | 5,818,789 |
| South Indian | 4,000,000 | 8,215,091 | | · | 425,000 | 62,064 | 8,702,155 | 8,171,220 | <u> </u> | ar an <u>an a</u> an a' | 425,000 | 425,000 | 62,009 | 1,221 | 55 | - 3,6 59,505 | 3,385,528 |
| Total | 98,200,000 | 84,687,991 | 299,520 | 5,801,750 | 5,786,808 | 558,671 | 97,129,240 | 82,408,284 | 299,520 | 5,892,050 | 5,422,458 | 5,129,878 | 551,469 | 1,289,088 | ¥,202 | 95,072,441 | 93,720,794 |
| India Office, 12th April 187 | 6. | | | | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | • | • • | | | · · · · · · · · · · · · · · · · · · · | т. т | У. Кеітн, Ассоа | otant. |

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T. W. KEITH, Accountant.

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| ан 1917 - Ал | | SHOW | ung the A | MOUNT r | eceived fr | om and v | | IENT NO. : y each Com | | ng the Yes | ur ended 31st Marc | h 1876. | | | • • |
|---|---|----------------------------|-------------------|------------------|----------------------------|-----------------------------|-------------------|---------------------------------------|---|---------------------------------------|---------------------------------|--------------|--|---------------------------------|----------------------------------|
| · · · · | | | | | Amou | int received | | | | , | Amount withdrawn | · · · · · · | | | |
| • • • | Sums standing to the Credit of the | Sums advanced to the | | | d, between 1 31st Marci | h 1876. | 1st April 1 | between 875 and the ch Accounts | 1st April | d, between 1875 and rch 1876. | Ir | India. | | Total received during the | . Total withdraw during th |
| Railway. | Companies | Companies on the | | | | Capital | | received. | On account | | Date to which | | Estimated Withdrawals | Year ended 81st March | Year ende 91st Marc |
| • | on the 31st March 1875. | 87st March 1875. | Share Capital. | Deben- tures. | Deben- ture Stock. | not bearing Interest. | Share Capital. | Capital not bearing Interest. – | of Stores, Establish- ment Charges, &c. | For Discharge of Debentures. | Accounts have been received. | Amount. | between Dates specified and 31st March 1876. | 1876. | 1876. |
| East Indian, Main | £ 480,779 | £ | £ 99 | £ 1,000,000 | £ | £ 9,263 | £ | £ | £ 212,794 | £ 1,220,150 | 31st December 1875 | £ 52,903* | £ 72,000† | £ 1,008,862 | £ 1,308,0 |
| Line. East Indian, Jubbul- | _ | 237,022 | ·87,870 | - | - | 5,658 | | · <u> </u> | _ | | 57 F | 5,860* | 14,000† | 48,528 | 19,8 |
| pore Line. Great Indian Penin- | 570,147 | - | ,— | - | _ - ` | · | | · | 242,916 | <u> </u> | | 96,744* | £00,000† | | 53,5 |
| sula. Madras | 104,645 | | 626,035 | _ · | | - <u></u> | | | 84,550 | 500,000 | " | 18,575 | 75,000† | 626,085 | 528,1 |
| Bombay, Baroda, | 88,871 | <u> </u> | 510 | _ | _ | · · · · | · _ | | 88,531 | - * | | 18,754* | 45,000† | 510 | £0,£ |
| and Central India. Scinde, Punjab, and | . 799,681 | - | _ | | _ | | | • - · | 55,081 | - | " | 807,951 | - | - | \$63,0 |
| Delhi. Kastern Bengal - | - 1 | 868,274 | _ | _ | _ | 4 _ | _ | - | 80,858 | - | н, ^с е | 8,859 | 80,000 1 | — | 8,7 |
| Oude and Robilkund | 321,430 | _ | 37 | · _ | | - | ·· · | · _ · | 88,844 | | | 86,171 | 40,000 | 37 | 167,0 |
| South Indian | 992,118 | - | - | - | · _ · | - | · _ · | - | 460,429 | - | " | 205,707 | 52,000 | — | • 718,1 |
| Total - | 8,902,621 | 625,296 | 664,551 | 1,000,000 | · | 8,921 | | - | 1,163,498 | 1,720,150 | _ | 459,502 | 344,000† | 1,678,472 | 2,999,1 |

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• Transfers of expenditure to Revenue Account, Sale proceeds of Stores, Refunds, &c. exceed by these sums the amounts withdrawn in India on Capital Account during the year. † It is estimated that, on receipt of advices from India regarding transfers, which are several months in arrear of advices of cash transfers of expenditure to Revenue Account, &c. will have exceeded the withdrawuls to this extent.

T. W. KEITH, Accountant

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India Office, 12th April 1876.

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| - 3 | | |

ę 4 . ь ا مرو STATE of DEBENTURE LOANS on the Sist March 1876. .

| | | | Amount, | | Rate | Date at which Loan |
|---|------------------|--------------|--|-----------|---------------------------------|--|
| Railway. | | Convertible, | Inconvertible. | . Total. | oj Interest | |
| East Indian | | £ 164,620 | 96,460 183,450 1,000,000 440,000 1,000,000 | | 5 41 41 41 41 41 | 9th August 1876. 10th August 1877. 22d August 1877. 19th March 1878. 1st January 1881. |
| ₩ ₩ | | 164,620 | 2,719,850 | 2,884,470 | -42 | ist January 1681. |
| Great Indian Peninsula | - <u>-</u> | - | 1,085,450 3 368,800 | | 5 4 | 91st Dec. 1876. 30th June 1878. |
| · : : 1 | ÷., | | 1,304,250 | 1,304,250 | | |
| Madras | | 89,600 | · | 89,600 | 5 | lst January 1877. |
| Bombay, Baroda, and Ce | ntral Iudia " | 45,300 | 200,000 | | 5 4 | lst July 1876. lst January 1882. |
| на страна (1997) Политика Пол | | 45,300 | 200,000 | 245,300 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Eastern Bengal - "- | • • | - | 45,400 7,250 | | 5 4 | lst November 1876 1st November 1884 |
| | | | 58,650 | 52,650 | | |
| Oude and Rohilkund | | | 61 5 ,300 500,000 | | 4 | 4th June 1880. 1st August 1881. |
| | • | | 1,115,300 | 1,115,800 | | |
| | | | | 5,691,570 | | • |

India Office, 12th April 1876.

T. W. KEITH, Accountant.

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.! It will be seen by the above statement that the whole of the Convertible Debentures will be paid off this year. The total amount of Debentures of all kinds now outstanding is 932,570*l*. less than it was last year.

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STATEMENT of WITHDRAWALS out of CAPITAL for EXFENDITURE; showing the Amount withdrawn in England and in India by all the Guaranteed Indian Railway Compunies during each Financial Year from the commencement to 31st March 1876.

| | Yеаг. | England, | India. | Total. | |
|--------------------------|---------------------------------------|---------------------------------------|------------|------------|--|
| | | £ | £ | £ | |
| • | 184950 | 69,211 | 6,682 | 75,893 | |
| | 1850-51 | 61,164 | 38.099 | 99,263 | |
| 같다. 가 같은 | 1851-52 | 154,212 | 197,111 | 351,823 | |
| • | 1852-53 | 174,920 | 252,640 | 427,560 | |
| | 1853-54 | 252,484 | 418,165 | 670,649 | |
| | 1854-55 | 960,878 | 769,278 | 1,730,156 | |
| | 185556 | 1,935,074 | 1,431,337 | 3,366,411 | |
| | 1856-57 | 1,752,813 | 1,762,287 | 3,515,100 | |
| - | 1857-58 | 1,328,243 | 2,094,825 | 3,423,068 | |
| | 1858-59 | 1,941,033 | 3,551,075 | 5,492,108 | |
| | 1859-60 | 2,508,668 | 4,662,796 | 7,171,464 | |
| | 1860-61 | 2,388,315 | 5,190,400 | 7,578,715 | |
| (同時には最多で) | 1861-62 | 1,597,430 | 5,004,782 | 6,602,212 | |
| | 1862-63 | 1,852,393 | 4,010,951 | 5,863,344 | |
| - 1 a 1 | 1863-64 | 1,415,146 | 3,840,507 | 4,755,653 | |
| | 1864-65 | 1,396,821 | 2,725,419 | 4,122,240 | |
| G | 1865-66 | 2,222,679 | 8,414,187 | 5,636,866 | |
| • · · · · · | 1866-67 | 3,958,357 | 3,339,346 | 7,297,703 | |
| . 6 ¹ -1011.1 | · 1867-68 | 3,924,490 | 8,195,591 | 7,120,081 | |
| | • 1868–69 | 1,969,814 | 2,512,084 | 4,481,898 | |
| t a there | 1869-70 | 2,298,680 | 2,444,171 | 4,742,851 | |
| | 1870-71 | 1,899,054 | 1,877,216 | 3,776,270 | |
| t a stringt | 4871-72 | 886,996 | 1,609,782 | 2,496,728 | |
| | 1872-73 | 822,995 | 845,750 | 477,245 | |
| | 1873-74 | 1,028,032 | 834,9791 | 693,053 | |
| i ja star 2 a Mil | 1874–75 | 1,174,893 | 86,982 | 1,087,911 | |
| Turne da la serie | 1875–76 | 1,163,498 | 115,502* | 1,279,000* | |
| | | 41,138,293 | 53,196,472 | 94,334,765 | |
| | Deduct amount with- | and the states | | | |
| a b b b | drawn by the Cal- cutta and South- | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | •• | 4 · I | |
| 4 | cutta and South- eastern Railway | | | | |
| | Company, this Rail- | | • | | |
| • | way having subse- | | · · · | | |
| | quently become the | 267,362 | 346,609 | 613,971 | |
| | property of the State | | 040,009 | 010,911 | |
| | | 40,870,931 | 52,849,863 | 93,720,794 | |

* These amounts are partly estimated.

† Transfers of expenditure to Revenue Account, Sale proceeds of Stores, Refunds, &c., exceed by these sums the amount withdrawn in India on Capital Account.

Note.—The total expenditure in India in each year as shown in the above Statement will not be found to coincide with that shown in the Indian Finance and Revenue Accounts, owing to the fact that the transfers of expenditure to Kevenue Account can only be made in the books in this country on receipt of advices from India, and are consequently brought to account some months later than in the Indian books.

India Office, 12th April 1876.

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T. W. KEITH, Accountant.

· GUARANTEED INTEREST.

55. It will be seen by the following tables that the sums advanced by Government to the different companies amounted during the year to 4,650,346*l*., compared with 4,641,705*l*. of the previous year, and that the whole amount advanced on this account since the commencement of operations is 56,924,522*l*. Of this large sum 31,230,932*l*. had been paid back by the companies, leaving a net amount of 25,693,590*l*., which the Government had advanced up to the 30th June 1875. During the past year the excess of interest paid by Government over railway receipts was 1,073,832*l*. compared with 1,061,988*l*. of the previous year, and 1,428,442*l*. of the year before.

GUARANTEED INTERBET .-- INDIAN RAILWAYS.

| | Interest adva | | | : | Inter | est advanced durin | g 1875. | | |
|--------------------------------------|---------------|--------|-----------|-------------|-------|--------------------|----------------|-------------|------------|
| Railway Company. | 31st Decembe | r 1874 | | gland. | • | India. | Total. | Total. | |
| | £ | s. (| I. £ | 8, | d. | £ s. d. | £ s. d. | £ | . d |
| East Indian, Main Line | 18,507,137 | 1 | 01,331,1 | 32 B | 4 | 10,417 8 1 | 1,841,549 6 5 | 1 · · | 78 |
| Jabbalpore | 1,718,716 | 1 | 7 155,9 | 95 9 | · 2 | 383 5 0 | 156,378 14 2 | 1,875,094 1 | 58 |
| Great Indian Peninsula | 12,436,452 | 3 | 4 1,130,4 | 31 16 | 0 | 13,609 6 0 | 1,144,041 2 0 | 13,580,493 | 54 |
| Madras | 6,379,240 | 91 | 1 500,3 | 35 8 | 8 | | 500,835 8 3 | 6,879,575 1 | 3 2 |
| Bombay, Baroda, and Central India | 4,307,818 | 11 | 0 387,0 | 23 1 | 10 | 244 16 8 | 387,267 18 1 | 4,694,686 | 91 |
| Scinde, Punjab, & Delhi | 5,269,191 | 4 | 7 551,1 | 19 7 | 6 | 2,560 7 11 | 553,679 15 5 | 5,822,871 |) (|
| Eastern Bengal | 1,476,985 | 18 | 1 130,5 | 61 2 | 6 | 997 7 10 | 131,558 10 4 | 1,608,544 | 3 4 |
| Oude and Rohilkund - | 996,614 | 14 | 8 254,0 | 30 4 | 10 | 4,443 1 3 | 258,473 6 1 | 1,255,088 (| ວ່ອ |
| South Indian 🕴 - | 1,182,419 | 13 | 8 177,0 | 62 9 | 7 | - | 177,062 9 7 | 1,359,482 8 | 38 |
| Total - f | 52,274,175 | 17 1 | 04,617,6 | 91 3 | 0 | 32,655 7 4 | 4,650,346 10 4 | 56,924,522 | 3 2 |

STATEMENT of the Total Amount of INTEREST advanced to each of the under-mentioned Railway Companies to the 31st December 1875. A state of the state of the second stat

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A STATEMENT showing approximately the AMOUNTS advanced on account of GUARANTEED INTEREST to the several under-mentioned Railway Companies to the 30th June 1875, beyond the amount of Net Revenue applied thereto.

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| Railway Company. | 7 | Total Amount advanced to 31st December 1875.* | Aggregate of Net Revenue Balances for the several half-years to 80th June 1875, inclusive. | Net Amount advanced |
|---|---|--|---|--|
| East Indian, Main Line , Jabbalpore Line Great Indian Peninsula Madras Bombay, Baroda, and Central Scinde, Punjab, and Delhi Eastern Bengal - Oude and Rohilkund - South Indian | - | £ 19,848,686 1,875,095 13,580,493 6,879,576 4,694,687 5,822,871 1,608,544 1,255,088 1,359,482 | £ 15,856,758 444,184 7,284,611 8,034,271 2,007,681 935,958 1,085,984 178,792 402,748 | £ 3,991,928 1,430,911 6,295,882 3,845,305 2,687,056 4,886,918 522,560 1,076,296 956,734 |
| Total | • | £ 56,924,522 | 31,230,932 | 25,693,590 |

• The Interest for the half-year to 30th June 1875 not being paid until the succeeding half-year. India Office, 12th April 1876. T. W. KEITH, Accountant.

REVENUE.

56. The net revenue derived from the railways was less than that of the previous year by 320,594*l*. This at first sight does not appear to be satisfactory, but independently of the depression of trade, the falling off is explained by the exceptionally large traffic in grain during 1874, in consequence of the scarcity in Bengal. Last year only 302,719 tons were carried by the East Indian, the Eastern Bengal, and the Punjab and Delhi Railways, instead of 1,217,338 tons in 1874. The gross receipts last year were 7,412,179*l*., compared with 7,809,984*l*. of 1874, and 6,738,945*l*. of 1873. The receipts from passengers were more by 270,504*l*., and from goods they were 586,102l. less : from miscellaneous sources they were also 82,307l. less. The expenditure was 77,211l. less, amounting to 3,764,311l., compared with 3,841,522l. of the previous year. The net receipts amounted to 3,647,868l., of which 3,576,514l. were from guaranteed and 71,354l. from the State lines. Taking the capital of the two to be 97,000,000l, the average earnings, from good and bad together, would be 3l. 15s. per cent. for the year.

57. The following statement shows the amount of surplus profits earned by guaranteed railways from 1870 to 1875 :---

| Railway Company. | Half year to 30th June 1870. | Half year to 30th June 1871. | Half year to 30th June 1872. | Half year to 30th June 1873. | Half year to 31st Dec. 1873, | Half year to 30th June 1874. | Half year to 31st Dec. 1874. | Half year to 30th June 1875. | Hulf year to 3 ist Dec. 1875. | Total. |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|------------------|
| • • | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ |
| East Indian, Main Line ,, Jab- | 130,095 | 109,255 | 150,695 | 167,753 | 104,688 | 641,832 | 77,951 | 158,539 | 38,702 | 1,579,570 |
| balpore Line Great I udian Pen- | — . | _ | | | - | 11,238 | - | — | | 11,238 |
| ineula Railway Bombay, Baroda, | - | - | - | - | - | _ | - 1 | 149,838 | 1 - 1 | 148,838 |
| and Central India Eastern Bengal - | : = |] = | 5,864 | - | • — 8,411 | 4,728 7,810 | 9,151 | , 5,912 — | | 16,499 25,872 |
| Total - | 130,095 | 109,255 | 156,559 | 167,753 | 1 13,099 | 665,603 | 87,102 | 308,289 | 38,702 | 1,776,457 |

17th July 1876.

T. W. KEITH, Accountant.

17th July 167

58. The annual payments on account of guaranteed interest, and the amount paid by the companies in reduction of the same during the last seven official years, have been as follows. These figures vary slightly from those in the preceding page, which apply to the natural, while these apply to the official year.

| Financial Year. | Guaranteed Interest. | Net Traffic Receipts less half surplus profits. | Net Charge |
|-----------------------------------|----------------------|--|------------|
| | £ | £ | £ |
| 1869-70 | 4,176,008 | 2,628,944 | 1,547,064 |
| 1870-71 | 4,391,592 | 2,556,781 | 1,834,811 |
| 1871-72 | 4,592,166 | 2,868,948 | 1,723,218 |
| 1872-73 | 4,658,401 | 2,547,900 | 2,110,501 |
| 1873-74 | 4,667,906 | 3,230,554 | 1,437,352 |
| 1874-75 | 4,693,884 | 3,449,322 | 1,244,562 |
| 1875-76 partly esti- mated. | 4,686,996 | 3,685,000 | 1,001,996 |

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STATEMENT showing the REVENUE from the INDIAN RAXLWAYS in

| Bailway. | • | Rea | eipts | w. f. |
|---|---|---------------------|-------------------------------------|-----------|
| | Passengers. | Goods. | Miscellaneous. | Total. |
| | £ | £ | £ | £ |
| East Indian, Main Line - 1875 | 801,311 | 1,622,681 | 85,671 | 2,509,663 |
| ,, 1874 | 742,416 | * 2 ,350,949 | 94,280 | 3,187,645 |
| "Jabalpur Line - 1875 | 77,300 | 92,198 | 15,550 | 185,048 |
| - " " 1874 | 68,696 | - 131,146 | 85,195 | 235,037 |
| Great Indian Peninsula - 1875 | 478,530 | 1,457,666 | 36,888 | 1,973.084 |
| " " 1874 | 438,544 | 1,369,990 | 40,013 | 1,848,547 |
| Madras | 226,049 | • 344,523 | 18,820 | 589,392 |
| " 1874 | 226,369* | 295,011 | 20,049 | 541,429 |
| Bombay, Baroda, and Central | | | | |
| India 1875 | 228,348 | 343,382 | 13,724 | 585,454 |
| " 1874 | 203,3 82 | 304,580 | £9,068 | 587,020 |
| Sind, Punjab, and Delhi - 1875 | 221,458 | 269,824 | 20,653 | 511,935 |
| ,, ,, 1874 | 199,274 | 375,638 | 44,276 | 619,188 |
| " Indus Steam Flotilla 1875 | 5,817 | 78,525 | 617 | 85,029 |
| »» » » - 1874 | 5,259 | 71,168 | 55 2 | 76,974 |
| South Indian (amalgamation of Great | _ | | | |
| Southern of India and Carnatic | | | | |
| Railway Companies) - 1875 | 54,228 | 44,893 | 4,732 | 103,353 |
| Great Southern and Carnatic for 1st | | and the second | | |
| half of 1874 | 23,586 | 18,001 | 1,184 | 42,771 |
| South Indian for 2nd half of - 1874 | 27,192 | 49,989 | 1,282 | 48,415 |
| Eastern Bengal 1875 | - 110,298 | 146,472 | 39,048 | 295,818 |
| """ 1874 | 99,033 | 211,519 | 55,379 | 365,981 |
| Oude and Rohilkhund 1875 | 137,585 | 130,602 | 6,985 | 275,122 |
| " " 1874 | . 109,283 | 87,933 | 3,180 | 200,402 |
| Totals for Guaranteed Railways 1875 | 2,340,994 | 4,530,266 | 242,638 | 7,113,898 |
| 1874 | 2,340,334 | 5,285,869 | 824,454 | 7,703,357 |
| | | | | |
| STATE. | | | | |
| Calcutta and South-eastern - 1875 | 6,354 | 2,854 | 1,157 | 10,365 |
| - 1874 | 5,309 | 2,481 | 1,830 | 9 120 |
| Nalĥati 1875 | 5,324 | 2,566 | -52 | 7,942 |
| .,, | 4,830 | 2,836 | 137 | 7,803 |
| Rajputana 1875 | 61,730 | 108,378 | 4,620 | 174,728 |
| " – – – – – – – – – – – – – – – – – – – | 22,847 | 33,746 | 5,104 | 61,697 |
| Wardha Valley 1875 | 895 | 2,240 | 89 | 2;674 |
| " " – – – 1874 | 316 | 1,576 | - 35 | 1,927 |
| Holkar's | 7,829 | 23,513 | 603 | 31,945 |
| " - (11 months) 1874 | 4,368 | 5,261 | 690 | 10,319 |
| Nizam's 1875 | 25,136 | 20,204 | 174 | 45,514 |
| | 6,977 | 3,480 | | 10,508 |
| Punjab, Northern - 1875 | 9,704 | 4,364 | 208 | 14,276 |
| Tirhut 1875 | 686 | 783 | 9 | 1,478 |
| | in the second | | | |
| Berar, | | | an an an anna an Anna an Anna an | |
| · · · · · · · · · · · · · · · · · · · | | ····· | | |
| Amraoti 1875 | 740 | 4,670 | 16 | 5,426 |
| | 70 2 | 2,063 | 21 | 2,786 |
| Khamgaon 1875 | 151 | 3,671 | 11 | 3,833 |
| ,, | 156 | 2,299 | 12 | 2,407 |
| Totals for State Railways - 1875 | 118,049 | 173,243 | 6,889 | 298,181 |
| 1874 | 45,505 | 53,742 | 7,380 | 106,627 |
| Grand Total for all Railways - 1875 | 2,459,043 | 4,703,509 | 249,527 | 7,412,079 |
| | 2,188,539 | _, | | |

| | Expenditure. | | Per-centage of | i . | | |
|----------------------|-----------------|-------------------|---------------------------------------|---|--|--|
| Maintenance. | Working, &c. | Total. | Expenditure to Gross Receipts. | Net Receipts. | | |
| and the second | | | <u> </u> | | | |
| £ | £ | £ | | £ | | |
| 226,435 | 736,619 | 963,054 | 38 | 1,546,609 | | |
| 205,420 | 922,303 | 1,125,723 | 35 | 8,061,922 | | |
| 38,654 | - 68,672 | 107,826 | 58 | 77,722 | | |
| 16,889 | 83,192 | 100,081 | 43 | 184,956 | | |
| 158,742 | 774,044 | 932,786 | 47 | 1,040,298 | | |
| 193,996 | 899,823 | 1,093,819 | 59 | 754,728 | | |
| 152,016 | 262,188 | 414,204 | 70 | 175,188 | | |
| 112,126 | 237,998 | *359,124 | 64 | 191,305 | | |
| 81,378 | 237,165 | 318,543 | 54 | 266,911 | | |
| 49,340 | 230,538 | 279,878 | 52 1 | 200,911 257,142 | | |
| 79,060 | 248,996 | 328,056 | 64 | 183,979 | | |
| 77,509 | 271,162 | 348,674 | 56 | 270,517 | | |
| 13,399 | 55,988 | 69,387 | 81 | 15,642 | | |
| 18,467 | 53,660 | 72,127 | 93 | 4,847 | | |
| | | | | 4,041 | | |
| | | | | l. | | |
| 7,698 | 42,076 | 49,774 | 48 | 53,579 | | |
| 5,568 | 21,304 | 26,872 | 62 | 15,89 | | |
| 5,849 | 22,648 | 28,497 | 58 | 19,99 | | |
| 54,657 | 135,424 | 190,081 | 64 | 105,73 | | |
| 39,303 | 158,907 | 198,210 | 54 | 167,72 | | |
| 33,015 | 131,258 | 164,273 | 59 | 110,849 | | |
| 30,407 | 98,675 | 129,082 | • 64 | 71,320 | | |
| 845,054 | 2,692,430 | 3,537,484 | 49 | 3,576,514 | | |
| 75 2 ,874 | 3,000,210 | 3,753,084 | 48 | 3,950,273 | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | | |
| 2,014 | 6,329 | 8,343 | 80 | 2,022 | | |
| 1,645 | 5,500 | 7,145 | 78 | 1,975 | | |
| 1,811 | 4,327 | 6,138 | 77 | 1,804 | | |
| 1,135 | 4,110 | 5,245 | 67 | 2,558 | | |
| 33,180 | 78,066 | 111,246 | 63 | 63,482 | | |
| 15,028 | 34,670 | 49,698 | 80 | 11,999 Loss 193 | | |
| 697 | 2,170 | 2,867 | 107 105 | Loss 195 Loss 95 | | |
| 51 2 | 1,510 | 2,022 20,586 | 95 | 1,359 | | |
| 8,234 | 27,352 | 30,586 2 6 2 2 | 95 84 | 1,631 | | |
| 1,704 | 6,984 | 8,688 | 113 | Loss 6,327 | | |
| 16,132 | 35,709 7,688 | 51,841 9,885 | | 625 | | |
| 2,197 | 6,066 | 8,058 | 94 56 | 6,218 | | |
| 1,992 506 | 581 | 1,087 | 78 | 391 | | |
| | | | | | | |
| | • | | | 1 | | |
| | | | | · | | |
| 320 | 3,808 | 4,128 | 76 | 1,298 | | |
| 361 | 3,392 | 3,758 | 184 | Loss 967 | | |
| 280 | 2,253 | 2,538 | 66 | 1,300 | | |
| 278 | 1,724 | 2,002 | 81 | | | |
| 60,166 | 166,661 | 226,827 | 76 | 71,354 18,189 | | |
| 22,860 | 65,578 | 88,438 | 82 | | | |
| 905,220 | 2,859,091 | 3,764,311 | 50 49 | 3,647,868 | | |
| 775,784 1 | 3,065,788 | 8,841,522 | 49 | -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | <u></u> | D 4 | | | | |

1874 and 1875, as given in the Accounts passed by Government.

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TRAFFIC AND WORKING.

59. In considering the traffic returns for the past year and, more especially; while comparing the results with those of the previous year, certain exceptional circumstances should be borne in mind. The passenger traffic was, in the latter end of the year under review, augmented by the concourse of people which assembled at various places to greet His Royal Highness the Prince of Wales: the railways in Bengal and the North-West Provinces will suffer in comparison with the year 1874. in consequence of the unusual accession of traffic in that year through the transport of grain both from up and down country to the famine-stricken districts : and the depressed state of trade has had an injurious effect generally upon the traffic of all the lines. It must also be remarked, in reference to the net returns, that a large item of expenditure during the past year was for repairs, restorations, and increased protective works in consequence of the damage done by floods, and that doubts may be entertained as to whether the whole of the sum expended during the year on such operations was strictly a proper charge against revenue. At any rate, the effect has been to enlarge considerably the expenditure on revenue account. !..

60. The passenger traffic, it will be seen, increased 10.28 per cent. in numbers, and 12.30 per cent. in receipts, compared with the previous year. The proportion per cent. of first class was .78, of second class 2.30, and of the lower classes 96.92.

61. The actual increase in the number of passengers was 2,498,978. In 1873 they reached 23,557,605; in 1874, 24,280,459; and in 1875, 26,779,437. The open mileage over which the passengers were carried in 1873 averaged 5,711; in 1874, 5,597; and 6,298 in 1875. The increase last year was distributed over the different lines, the chief share falling to the Oudh and Rohilkund (388,000), the Bombay, Baroda, and Central India (347,000), the East Indian (279,000), and Great Indian Peninsula (210,000). About 580,000 were carried over the newly opened State lines in the Punjab and Rajpootana.

62. The receipts from passengers, including 235,680*l*. from excess luggage, parcels, horses, &c.; 81,270 from troop-trains, and 7,846*l*. for mail service; were 2,459,618*l*., compared with 2,183,015*l*. of the previous year, and 2,194,607*l*. of 1873. The first class brought in 127,044*l*., the second class, 114,507*l*., and the lower classes, 1,832,882*l*. The first class increased 20,846*l*., the second 11,517*l*., and the third and fourth 182,772*l*. There was also an increase of 35,722*l*. in parcels, luggage, horses, &c. Some portion of this increase, as before hinted, must be laid down to the visit of His Boyal Highness the Prince of Wales.

63. The goods traffic shows a falling off of 307,974 tons. This, as before mentioned, is in great measure due to the large quantities of grain, amounting to about 840,000 tons, which were taken to the districts where scarcity prevailed in 1874. The number of tons carried this year was 4,388,649, compared with 4,696,624 of the previous year. These figures include 579,974 and 687,450 tons of minerals respectively.

64. The receipts from goods amounted to 4,698,506*l*., compared with 5,273,600*l*. of the previous year. The East Indian went back 337,639 tons in weight and 515,168*l*. in receipts, owing to the famine traffic of 1874. From the same cause the Sind, Punjab, and Delhi shows a falling off of 92,369*l*. The Great Indian Peninsula and the Bombay, Baroda, and Central India on the other hand show an improvement of 87,675*l*. and 55,075*l*. respectively.

65. The proportion per cent. of the gross revenue from goods was 65.67, and from passengers 34.33.

66. The number of miles travelled by trains during the year was, in consequence of the reduced traffic, necessarily less, being 17,950,312, compared with 18,475,322 of 1874; and the ton mileage, on the number of tons carried one mile, was 905,697,217, against 1,102,956,185.

67. The articles in which the greatest decrease took place were grain, seeds, rice and jute; while coal, sugar, salt, firewood, and wool showed an increase.

68. The most satisfactory feature on the side of improvement was salt. The opening of railway communication with the Patri and Sambhur Lakes, and the imposition of moderate rates have stimulated the traffic and brought a better and cheaper article to the consumer. A still further increase may be expected if the supposed rival interests of different districts are not allowed to influence railway managers, and if low rates are uniformly levied. A very proper arrangement has recently been made on the Great Indian Peninsula Railway by which salt is registered and weighed at the stations instead of being sent to a central depôt, often distant from the line.

69. The expenses of maintaining and working the railways was 3,672,0531., compared with 3,682,6011. The steam flotilla on the Indus in 1874, cost 73,6461.; in 1875, 67,8707. The outlay for maintenance is in several cases swelled by the heavy cost of repairs in consequence of the damage done by the floods during the second half of the year, and also by reserves from the revenue receipts for the same object. One great source of expense is the excessive amount of tare arising partly from the construction of the vehicles, and partly from the large number of "return empties." It is very desirable to meet this evil as far as possible, and to improve the carrying capacity of the waggon, by reducing its dead weight in proportion thereto. This has been done on the East Indian by increasing the strength of the axles, and a similar process is going on with the rolling stock of other lines. Economy may also be observed in other ways. The railways in Central and Western India will be aided in this direction by the supplies of native coal now about to be provided; but more may be done by internal management, whether it be by a proper system of effective maintenance, by the careful packing and loading of trains, by keeping down establishments at head quarters or at stations, or by general thrift and avoidance of waste. The prosperity of a railway commences with economical management; for the smaller the expenses the lower can be the rates, and the greater will be the traffic and general success.

70. This is clearly exemplified in the subjoined tables which Mr. Rendel has again prepared on the same basis as those furnished in former reports. It will be seen that the line which is most successful is that which charges less, which does its work for less than the others. The average sums received by the East Indian for carrying one passenger and one ton per mile were last year, on the main line, · 378d. and 1 · 013d. respectively. On the Great Indian Peninsula these sums were \cdot 414*d*. and $1 \cdot 498d$.; on the Madras, \cdot 374*d*. and $1 \cdot 194d$.; on the Bombay and Baroda, \cdot 378*d*. and $1 \cdot 38d$.; on the Punjab and Delbi, $\cdot 355d$. and $1 \cdot 22d$; and on the Eastern Bengal, $\cdot 378d$. and $1 \cdot 236d$. The average cost of carrying a passenger and a ton of goods one mile on the main line of the East Indian Railway, was $\cdot 17d$. and $\cdot 324d$. respectively. On the Great Indian Peninsula these figures were $\cdot 298d$. and $\cdot 662d$.; on the Madras, $\cdot 216d$. and $\cdot 904d$.; on the Bombay and Baroda, $\cdot 255d$. and $\cdot 606d$.; on the Punjab and Delhi, $\cdot 234d$. and 611d.; and on the Eastern Bengal, 242d. and 702d. The average net earnings from each passenger per mile carried were, on the East Indian, 208d.; on the Great Indian Peninsula, 116d.; on the Madras, 158d.; on the Bombay and Baroda, 123d.; on the Eastern Bengal, 136d.; and on the Punjab, 121d. The average net earnings from each ton per mile carried were, on the East Indian, 689d.; on the Great Indian Peninsula, 836d.; on the Madras, 29d.; on the Bombay and Baroda, .732d.; on the Eastern Bengal, .534d.; and on the Punjab, . 609d. The unsatisfactory results on the Madras Railway are explained by the facts that the lowest average goods train load (49 tons compared with 117 on the East Indian Railway), and the highest cost of carrying a ton of goods one mile ('904d. compared with '344d.) are found on that line.

RETURNS PREPARED BY MR. RENDEL.

"The returns given below are drawn up on the same principles as those given in the Report for 1874, and need not be repeated; but the figures relating to vehicle mileage are omitted in the present instance, nor are any returns given for the Scinde section of the Scinde, Punjab, and Delhi Railway, that section being small, and being entirely detached from the main portion of the line, and not affecting, or being affected by, the general system of trunk lines."

(12508.)

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| (a.) PASSENGER TRAFFIC. | | | | | | | | | | | |
|--|---------------------------|-------------------------|--------------------|-------------------------|-------------------------------|-------------------------|-------------------|--|--|--|--|
| | Bast Indis | m Railway. | Great Indian | | Bomhay, | Punjab, | Bastern | | | | |
| | Main, | Jubbulpore. | Peninsula. | Madras. | Baroda, and Central India. | and Delni. | Bengal. | | | | |
| verage length open, miles - | No. 1,280 £ | No. 223] £ | No. 1,2061 £ | No. 861-5 £ | No. 4302 8 | No. 559 5 | No. 158 £ | | | | |
| .) Receipts from passenger traffic. | 801,307 | 77,297 | 478,551 | \$23,040 | 228,349 | 210,031 | 110,299 | | | | |
|) Passenger train miles run ~ | No. 2,344,749 8. d. | No. 232,957 #. d. | No. 1,529,189 | No. 711,711 8. d. | No. 568,846 | No. 630,112 8. cl | No. 245,288 | | | | |
| .) Average passenger train mile receipta. | 7 1 | 6 73 | 6 8 | 6 41 | 8 12 | 68 | 90 | | | | |
| .) Number of passengers car- ried one mile. | No. 508,760,000 | No. 16,130,000 | No. 277,408,698 | No. 160,445,775 | No. 144,954,000 | No. 143,610,256 | No. 70,031,120 | | | | |
|) Average sum received for carrying a passenger one mile. | d. •378 | d. -899 | d. *414 | đ. *874 | d. 1878 | d. 351 | đ. *378 | | | | |
| Average number of pas- sengers in a train at any one time. | No. 226 | No. 199-5 | No. 181 '5 | No. 211.25 | No. 367 | No. 228 | No. 285 | | | | |
| Average number of pas- senger trains per diem each way, supposing each train | No. 2 4 | No. 1*424 | No. 1.65 | No. 1 13 | No. 1.8 | No. 1.56 | No. 3 18 | | | | |
| to traverse the whole line open. | No. | No. | No. | No. | No. | No. | No. | | | | |
|) Average number of pas- sengers passing over each mile of line daily (both ways). | 1,069 | 568 | G 00 | 478 | 934 | 710 | 1,914 | | | | |
|) Total working expenses for both goods and passengers, deducting telegraph special and miscellancous and de- | £ 874,798 | £ 91,714 | £ 987,511 | £ 894,917 | £ 804,234 | £ 230,025 | £ 151,401 | | | | |
| murage receipts from them. Average cost of running a train mile, passenger and goods miles assumed to cost the same. | ə, d. 3 2 14 | s. d. 4 1 4 | s. d. 4 6.1 | я. а. 3 83 - | s. d. 5 61 | 8. d. 4 54 | s. d. 5 9 - | | | | |
| .) Average cost of carrying a passenger one mile. | d. •17 | d. 249 | - 3 96 | d 216 | d. 255 | 8 . 234 | d. *242 | | | | |

(a.) PASSENGER TRAFFIC.

(b.) Goods Traffic.

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|---|---------------------|--------------------|-----------------------|---------------------|---------------------|---------------------|-------------------|
| Average length open, miles - | No. 1,280 £ | No. 2237 £ | No. 1,2661 | No. 861*5 | No. 4801 | No. 553 5 L | No. 158 £ |
| (1.) Receipts from goods traffic - | 1,620,098 No. | 92,186 No. | 2 1,453,884 No. | £ 844,057 No. | £ 842,856 No. | 178,382 No. | -145,890 No. |
| (2.) Goods train miles run 🔹 | 8,259,825 | 212.757 | 2,853,009 | 1,416,048 | 651.822 8. 4. | 401,888 | 2 88,390 |
| Average goods train mile re- ceipts. | 9 112 | 8 8 | 10 2 8 | 4 10 9 | 13 āt | S 104 | 10 11 |
| A) Tons of goods carried one mile. | No. \$53,683,600 | No. 19,347,400 | No. 233,024,150 | Tons. 69,157,186 | No. 59,627,180 | Tons. 35,153,680 | No. 28,828,160 |
| 5.) Average sum received for carrying one ton one mile. | đ. 1.013 | đ. 1.142 | d. 1 1498 | cz. 1•194 | 4 1 58 | đ 1*22 | d 1 · 238 |
| (5.) Average number of tons in a goods train at one time. | No. 117'7 | No. 90-9 | No. 81'7 | No. 49 | No. 118 | Tons. 87-5 | No. 99-25 |
| 7.) Average number of goods trains per diem each way, supposing each train to run over the whole line open. | No. 8*49 | No. 1`8 | No. 3 1 | No. 2 25 | No. 1 78 | No. 1993 | No. 2*6 |
| 8.) Average number of tons of goods passing over each mile of line daily (both ways). | No. 831 | No. 237 | No. 504 | No 220 | No. 380 | No. 174 | No. 491 |
| 9.) Total working expenses for both goods and passengers, deducting from them tele- graph, special and miscel- incous and demurage re- ceipta. | £ 874,798 | £ 91,714 | £ 987,511 | £ 594,917 | 804,294 | £ 930,025 | £ 154,401 |
| (10.) Average cost per train mile, goods and passenger miles assumed to cost the same. | e. d. 8 2 16 | e. d. 4, 1*4 | s. d. 4 6 1 | 8. d. 3. 8% | 8, d. 5 54 | 8. 0. 4. 55 | s. d. - 5 9 |
| (11.) Average cost of carrying a ton of goods one mile. | d. 324 | d. -543 | 665 - 665 | d. 1904 | d. - 608 | d 611 | đ. 702 |

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1.1

"From the foregoing the following may be gathered, namely, that the highest average passenger train load (285 persons), was obtained on the Eastern Bengal; the lowest (181 5 persons), occurred on the Great Indian Peninsula Railway. The highest average goods train load (117 7 tons), was obtained on the East Indian Railway; the lowest (49 tons), is found on the Madras line.

"The lowest cost per train mile (3s. 2.14d.) is found on the East Indian, Main Line; the highest (5s. 9d.) on the Eastern Bengal.

"The lowest cost of carrying a passenger one mile (17*d*.) is found on the East Indian, Main Line; the highest (298*d*.) on the Great Indian Peninsula Bailway.

"" The lowest cost of carrying a ton of goods one mile $(\cdot344d.)$ is found on the East Indian, Main Line; the highest $(\cdot904d.)$ on the Madras line.

"The lowest average charge for carrying a passenger one mile (351d.) is found on the Punjab line; the highest (414d.) on the Great Indian Peninsula.

" The lowest average charge for carrying a ton of goods one mile (1.013*d*.) is found on the East Indian, Main Line; the highest (1.498*d*.) on the Great Indian Peninsula.

"The largest passenger traffic (1,214 persons passing over each mile per diem on the average) is found on the Eastern Bengal; the lowest (478) on the Madras.

"The largest goods traffic (821 tons passing over each mile per diem on the average) is found on the East Indian, Main Line; the lowest (174 tons) on the Punjab line."

| | | Ĩ | assengers | • | | Goods. | | | | | | | | |
|--|-------------------------------|-------------------------------------|---------------------|-----------------------------------|----------------------------|--------------------------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------------|--|--|--|
| | 1 | Fare for t | ravelling | One Mile. | | Rate for conveying One Ton One Mile. | | | | | | | | |
| Railway. | First Class. Second Class. | | Intermediate Class. | Third Class. | Fourth or Coolie Class. | Of First or Lowest Class. | Of Second Class. | Of Third Class. | Of Fourth Class. | Of Fifth or Highest Class. | Special. | | | |
| | | | | | | | | | | i - | | | | |
| GUARANTEED. East Indian, Main | pies.* 18 | pies. 9 | pies. | pies. S | ріся. — | pies. 9∙073 | pies. 13·61 | pies. 18-146 | pies. 22 · 685 | pies. 27 · 221 | pies. From 4 · 54 to 9 · 078. | | | |
| Line. East Indian, Jub- | 18 | 9 | 4 1 | 8 | | 9.073 | 18.61 | 18.146 | 22.685 | 27 - 221 | From 5 • 44 to 9 • 073. | | | |
| bulpore Line. Great Indian Penin- | 18 | . 9 | - | 4 | 21 | 10 | 14 | 24 | 84 | 48 | From 5 5 to 8. | | | |
| sula. Madras | 15 | 6 - | — Third | | 2 | 12 | . 14 | 18 | 24 | 36 | From 4 to 10. | | | |
| Bombay, Baroda, | 15 | 7 | Mail 4 | Ordinary 8 | | 10 | 15 | 21 | 80 | 42 | Up to 8. | | | |
| and Central India. Sind, Punjab, and | 18 | 9 | 4] | 8 | — | 9.07 | 18.61 | 18-14 | 22.66 | 27 - 22 | 6*80. | | | |
| Delbi. South Indian - Eastern Bengal - | 8 12 | - 8 6 | · 二 | 2 41 | | 12 9-88 | 14† 14 | 18† 18•66 | 24 28 | 36 to 54 56 | 6 to 10. 9•45 to 10•28. | | | |
| Oude and Bohilkund | Upper 9 | Upper Reserved Cmptmnt. 86 | Lower 2 | L. Resrvd. Cmptmat. 16 & 24 | Lower Reserved 8 | 9+08 | 18.62 | 18-16 | 22-70 | 27-25 | 5 • 40 to 8 • 80. | | | |
| STATE. | Upper 9 | Lower 3 | Brecial 2 | - - | · · | | - | - | - | _ | | | | |
| Eastern, Nalhati Amraoti Khumgaon | 28-13 16 18 | 14·07 9 9 | | 7·06 4 4 | 4•62 23 23 | 12·71 10 10 | 21 ·72 14 14 | 30- 3 24 24 | 52·79 34 34 | 84 ⁻ 5 48 48 | 8 · 16. 5 · 5 to 8. 8 to 12. | | | |
| Rajpatana Wardha Valley - Holkar's - | 10·38 18 11·8 | 4.61 9 4.42 4.64 | | 2·03 4 2·21 1·74 | | 18·14 10 13·26 10·58 | 17·83 14 19·90 15·80 | 25+85 24 26+58 21+06 | 84 | 48 | 5·5 to 8, 8·29, 5·26 to 5·45, | | | |
| Punjab, Northern Tirhat Nizam's | 9·29 13 18 | 4.64 4.8 9 | | 8·1 4 | | 9·9 10 | 14·8 14 | 19•8 24 | 84 | 48 | 5 to 6, 5·5 to 8, | | | |
| | +8 n | ies = 1d. | l | I | † Rates or | ly in forc | e during t | he carly u | ionths of | the year. | | | | |
| a = 1 (16) | - a þ | - Lota | | | - | E 2 | | Û | | | | | | |

FARES and RATES in use on the Indian Railways.

 $[\gamma_{ij}]_{ij} = \{i_{ij}\}_{i=1}^{n}$

| | | | | ; | 1 | | Ooke. | | | <u>_</u> | Pate | ont Fuel. | | | V | 700d. | | |
|--|----------------------------|--|----------------------------|--|--------------------------------|-----------------------------|--------------------------------|------------|----------------|------------------------------|-------------|------------------|---------------------------------------|---------------------------|---|------------------------|---------------------------------|--------------------------------|
| • | · . | | | Consumption | | ······· | | Consu | mption. | | | | Consumption. | | | 4 | Consum | ption. |
| Bailway. | Quantity in Tons. | Total Cost. | Cost per Ton. | Por Per Train Mile in per Ibs. Mile | - Quan- tity in Tons. | Total Cost. | Cost per Ton. | Per | Per Vehicle | Quan- tity in Tons. | Total Cost. | Cost per Ton. | Per Train Mile in Ibs. Mile. | Quantity in Tons. | Total Cost. | Cost per Ton. | Per Train Mile in Iba. | Per Vehicle per Mile. |
| East Indiap, Main Line "Jabalpur Line. | 118,531 8,828 | £ s. d. 40,521 0 0 11,617 1 5 | | 48 · 23 44 · 36 | | ₽ s. d. | £ s, d | L | | | £ s. d. | £ s. d. | | 11 | £ s. d. 6 1 8 | £ s. d. 0 11 0 · 64 | | lbs. |
| Line. Great Indian Peninsula Madras Bombay, Baroda, and Central India. | 86,596 12,718 20,290 | 168,419 17 8 95,819 0 0 43,759 0 0 | | 44·26 2·1 89·24 1·5 | 409 | 8,881 7 1,240 0 595 0 | 5 2 12 9 0 3 0 7 0 2 5 3 | | 1 | 558 3,981 | 8,955 0 0 | 2 4 3 2 4 11 | 7.69 .81 | 466 | 28,097 0 (242 0 (| 0 8 2 | •90 | •08 |
| Sind, Punjab, and Delhi. South Indian Eastern Bengal - | 16,506 4,534 12,274 | 36,751 2 5 8,757 4 2 9,652 7 7 2,304 0 0 | 1 18 8 0 15 8 | + | 7 4 | 15 1 27 8 | 1 3 15 8 0 0 10 9 | -08 -21 | | 8 | 24 2 9 | 804 | -01 -000 | 5.170 | 7,426 17 10 2,742 18 (18,744 0 (| 0 10 7 | | 1.81 |
| Ondh and Robilkund Totals for guaranteed Railways. | 1,484 281,761 | | | | 2,218 | 5,758 11 | 6 | <u></u> | | 4,542 | 10,202 2 9 | * | | 188,442 | 58,827 5 | 3 | | |
| STATE. Calcutta and South- Eastern, Nalhati | 1,183 516 | 1,076 18 D 514 0 0 | 0 18 2 | -66-71 8-5 87-91 8-5 | | | | | | | | | | | 8 14 (| 0 10 7 | 0 89 82 | •21 •015 |
| Reiputana - / - Wardha Valley - Holkars - Phajab, Northern | 8,556 196 8 | 21,263, 18, 11 872, 0, 0 36, 12, 0 62, 0, 0 | 1 18 0 4 11 6 0 14 0 | 34-55 1-6 78-6 4-3 1-4 2-5 | | 87 19 | 9 2 14 7 | •12 | •006 | | | | | 78 5 4,194 1,127 | 1.862 10 | 0 10 0 | 2 00 05 80 | -11 |
| Nizam's Benar. Annfaoti | 2,608 149 | 5,924 15 0 850 0 0 | 256 | 41·51 1·8 | | | | | | | | | | 61 | - 27 10 (5 0 (| 091 | 4.70 | •82 |
| Khamgaon ; | 100 | 237 5 0 387,438 8 2 | | | | 5,846 4 | B | | | 4,542 | 10,202 2 9 | | | 11 138,936 43,718 | 5 0 0 61.000 5 5 18,632 7 11 | | 6.82 | •35 |
| Totals for Railways and Flotilla. | 295,160 | 387,438 3 2 | | | 2,245 | 5,846 4 | B • | | | 4,542 | 10,202 2 9 | | | 182,654 | 79,638 8 4 | | | |

STATEMENT showing the Cost and Consumption of Fuel at the Point of Delivery on the respective Lines during the Year 1875.

30

•

| | East In Main I | | East In Jabalpur | | Great I Penins | | Madu | ¢ 185. | Bombay, B Central | aroda, and India. | Sind, P and D | | Eastern | Bengal | Oude Rohil | | South | Indian |
|-----------------------------|-------------------|-----------|---------------------|--------|-------------------|---------------------------|----------------|----------------|----------------------|----------------------|-----------------------|----------------------|----------|------------|---------------|--------|----------------|------------|
| Articles. | 1875. | 1874. | 1875. | 1874. | 1875. | 1874. | 1875. | 1874. | 1875. | 1874. | 1875. | 1874. | 1875. | 1874. | 1875. | 1874. | 1875. | 187 |
| | Tons. See piec | Tons. | Tons. | Tons. | Tons. 4,786 { | Tons. See piece | Tons. 5,799 | Tons. 5,783 | Tons. See piec | Tons. e goods. | Tons. 555 | Tons. 434 | Tons. | Tons. — | Tons. | Tons. | Tons. 2,812 | Tor 2,1 |
| Cloth | 515,904 | 505,519 | 9 | 2,506 | f 1,758 | goods. 917 ng coke. | } 494 | 324 | 1,576 | 2,742 | 730 | 507 | 4,443 | 8,643 | 1,986 | 1,402 | | - |
| Cocoa-nuts | | d fruits. | | _ | 10,862 | 9,625 | 2,991 | 2,401 | 4,529 | 3,768 | See drie | l fruits. | <u> </u> | | — | - | | - |
| Cocoa-nuta - | | | | _ | | | 4,940 | 4,834 | 21 | · · 29 | 50 | 46 | | · | - 1 | | | |
| Coffee | 00.007 | 21,847 | 1,676 | 1,491 | 101,280 | 110,700 | 80,802 | 20,796 | 50,189 | 46,248 | 9,407 | 5,605 | 505 | 471 | 6,274 | 4,401 | | - |
| Cotton | 82,867 5,430 | 5.081 | 1,878 2,911 | 2,787 | 18,867 | 12,444 | | | 5,874 | 3,807 | 6,974 | 6,232 | .— | - | - | — | - | - |
| Dried Fruits | | 12,346 | 11,530 | 8,817 | 34,977 | 25,741 | 11,529 | 9,588 | 5,584 | 8,025 | 14,121 | 14,848 | | - | 12,002 | 8,707 | | - |
| Firewood - | 18,552 | 340,248 | 11,530 | 63,639 | 215,784 | 282,036 | 24,117 | 33,688 | 44,384 | 32,188 | 65,700 | 244,988 | 14,271 | 15,241 | 75,301 | 39,439 | 4 1,940 | 86, |
| Grain | | 1 . | | | 14,029 | 12,336 | 5,187 | 5,587 | 8,968 | 12,988 | 8,145 | 2,209 | — | | 1,668 | 1,450 | 2,496 | 3 |
| Green Fruits and Vegetables | 19,170 | 22,913 | 1,462 | - 885 | ſ 5,573 | 2,693 | } 9,118 | 6,152 | 701 | 688 | 2,784 | 2,734 | 6,184 | 5,835 | 2,118 | 2,179 | 1,213 | |
| Hides – – – | | | | | - | ng norna, I | 1 | e 01# | 5.0 | metal. | 9,960 | 7,899 | 34 | 28 | | - | | - |
| Iron | 39,875 | 60,720 | 8,769 | 4,348 | — | | 8,992 | 6,817 | 27,909 | 22,223 | 36,906 | 29,778 | 7,389 | 8,058 | 40,712 | 17,548 | — | - |
| Jagree and Sugar - | . 65,496 | 50,686 | · · | 20,146 | 25,686 | 20,958 | 14,169 | 13,427 | · · · | | f Include | ed in] | 94,694 | 112,407 | 819 | 570 | — | - |
| Jute | - 620 | 1,016 | | 265 | - | | - | ! - | 7,800 | 5,809 | 1,870 | & flax.] 1,829 | 667 | 620 | 8,618 | 4,763 | | - |
| Metal and Hardware - | - - ' | | | - | 18,465 | 89,176 | - | <u>~</u> | l í | 1,677 | 11,068 | 10,558 | 212 | 684 | 7,032 | 8,271 | <u> </u> | |
| Military Stores | _ 21,157 | | | 886 | 7,591 | 7,366 | 3,556 | 4,197 | 1,665 | 1,842 | (Included | in ghee { | | 1 | 648 | 630 | 2,128 | l I |
| Oil | - 8,517 | | | 66 | 10,115 | 9,259 | 6,758 | 5,970 | | 902 | { nnd oi { Include | i in drugs } | 16 | 21 | 523 | 332 | — | - |
| . Opium | - 6,591 | | | | 8,426 | 4,311 | - | - | 1,254 | 7,280 | { and n 9,903 | edicine. 5 | 10,263 | 10,289 | 8,691 | 4,930 | - | - |
| Piece Goods | 47,149 | | | 4,755 | 12,595 | | — | - | 7,689 | | [Includ | ed in l | 22,840 | 101,452 | — | | · — | - |
| Rice | - 110,057 | 1 | · · · | 1,792 | | grain. | 75,118 | 63,742 | | grain. (32,117 | edible | grain. ∫ ↓ 11,344 | 8,776 | 8,117 | 86,603 | 24,734 | 11,570 | 11, |
| Salt | 148,919 | | | 5,214 | 70,572 | | 47,996 | 48,051 | 88,246 | 8,968 | 60,184 | 28,453 | 22,081 | 35,623 | 10,805 | 7,158 | 7,508 | 6, |
| Seeds - | - 159,714 | | | 9,570 | 112,785 | 63,801 | 16,921 | 15,029 | 28,528 | , | 122 | 138 | 117 | 222 | | .— | — | - |
| Silk | - 718 | | | 71 | 697 | 452 | | | 4 - | ce goods. 7,691 | 3,719 | 6,217 | | | 18,838 | 17,022 | | - |
| Timber | - 13,917 | | | 1,038 | 22,406 | - | 17,327 | 14,797 | 8,981 | 7,537 | 947 | 935 | 9,017 | 14,532 | 557 | 852 | 892 | |
| Tobacco | - 8,930 | | | 1,354 | 3,677 | 3,313 | | 6,352 | 1 · | 1,573 | 1,280 | 743 | | | 625 | 693 | - | - |
| Twist | - 2,729 | 1 | | 264 | 5,708 | 4,928 | 4,889 | | · · | 630 | 2,717 | 2,645 | 381 | 189 | 2,455 | 2,704 | — | |
| Wines, Spirits, &c | - 8,979 | 9 7,135 | 5 398 | 439 | 4,001 | 4,254 | 2,980 | | | | 5,798 | 3,963 | _ | | | | - | - |
| Wool | | — | - | 1 - | 211 | 162 | 1 - | - | 2,185 | 1,550 | 1 | · · · · | 1 | } | | | | |

STATEMENT showing the QUANTITIES of the principal Articles of MERCHANDISE, &c., carried on the Indian Railways in 1874 and 1875.

STATEMENTS relating to the PASSENGER and GOODS TRAFFIC and the GROSS

| | Actual | Number | of Miles | 000000 | 31st De | ember. | uo Bil | | | | aasenger 1 | Traffic. | | |
|--|--------------|------------------|-----------------------------|---------------------|------------------|-----------------------|---|-----------------|--|---------------------------|---------------------------|-------------------------------|----------------------|--|
| • | and | Average . | of Miles Number durin | of Miles g 1373. | of Open | Line | of Bidings 76. | (ezclusi | le of Hol | Number ders of S | of Passong eason and J | era Periodical | Tickets). | of Sea- Ticketa. |
| Railway. | Dou | ıblė. | Sin | gle. | Tol | al ⁱ , | d Miles ember 18 | lass. | Class. | odiate | Clause. | nr Coolite | all the | Holders eriodical |
| | Actual. | Average. | Actual. | Average. | Actual. | Average. | Number of Milos of 31st December 1676. | By First Class | By Scond | By Intermediate Class. | By Third Class | By Fourth or Coolie Class. | Total by Classes. | Rumber of Holders of Sea- son and Periodical Ticketa. |
| | | | | | : | | | | | | | | | |
| GUARANTEED, | | | | | | | • | | a de la composition de | | | i i i | | |
| 8ast Indian, Main Line | 6 10} | 410] | 8 6 9‡ | 569 | 1,970 | 1,37 91 | 5 281 | 44,911 | 110,620] | 420,571 j | 5,486,925) | - | 6,060,0281 | 8,676) |
| Sest Indian, Jabalpur Line | - - | _ | <u>925</u> ‡ | 2831 | 223 1 | 2 25 1 | 91 ‡ | 4484) | 16,512 | 5,9 56) | 257,1424 | - - | \$64,095 <u>}</u> | - |
| Freat Indian Penin- | 3271 | 887 <u>1</u> | 989 | 939 | 1,206} | 1,366 1 | 9 05 | 27,437 | 109,331 | - | 903,928 | 2 ,299, 553 | 8 ,540,238 | 890 |
| Madras | 耕 | 84 | 853 | 858 | 861 1 | 861] | 90 2 | 13,344 | 51,974 | - | 1,832,393 | | 2,785,577 | 96 |
| Bombay, Baroda, and Contral India - | 834 | 88¥ | 407 | 407 | 4802 | 4801 | 73 | 20, 909 | 174,848 | - | Third Mail 854,217 | Olass Ordv. 3,534,869 | 4,084,320 | 5,27 0 |
| Sind, Punjab, and Delhi | 41 | 41 | 659 | 659 | 663] | 663] | 108] | 17,502 | 48,448 | 20,2861 | 2,173,067 | - | 2,253,247 | _ |
| iouth Indian | | · — | 283 = | 217 | 283 | 917 | 22 | 8,570} | 24,061 | - | 1,529,100 | | 1,556,732 | 4 |
| Sectorn Bengal | - | - | 167‡ | 158 ₁₁ | 1071 | 158 ₁ 4 | 392 | 82,185} | 58, 598 | _ | 867,625 | 1,256,892 | • 1,710,286 | 2 ,588 |
| Judh and Bohilkhand | ⁻ | - | 544 1 | 544 | 544 1 | ō46 | #1 { | Upper 18,898 | }- | - { | Lower 8,363,8394 | } | 2,882,237 | _ |
| STATE. | • | | | - | | | | 4 | | - | × | | - | |
| alcutta and South- eastern | - | | 28 | 28 | 28 | 28 | 61 { | Upper 8,157 | } | - { | Lower 486,1001 | } | 469,263 1 | - |
| Nalbati | - | | 271 | 97 1 | %7 } | 87 1 | . 11 | 577 | 8,2534 | ÷ | 22,405 | 55,8291 | 61,065 | _ |
| mraoti | - | . ~ | 6 | 6 | 6 | . 6 | ŧ | 609 | 1,093 | - | 53,034 | 64 | 5,690 | _ |
| Khamgaon | - | | 8 | 8. | 8 | 8 | 4 | 178 | 388) | | 4,178 | 3 ,721 | 8,4651 | - |
| Nisem's | - | i 1 | ่ายน | 191 | 191 | . 181 | 7 | 2, 616 | 8,838 | . – | 88,998 | 219,979 | 265,226 <u>}</u> | 18 |
| Wardha Valley - | | | 19 | 19 | 19 | 19 | - | 900 | 291 | - | 1,4401 | 11,457 | 13,389 | - |
| firhat | - | ÷ . | - 44 | - | 45 | - | 41 | 197 | 466 | - مد ری م | 19,740 | . | 14,408 | |
| Pnnjab, Northern - | - | - | 62 | 44 | 62 | | •. | 1,500 | 4,285 | - | 259,390 | | 2 68,173 | - |
| Rajputana | - | - | 878 1 | 3544 | 878 4 | 344 | 39 4 | 1,789 | 10,401 • | | 985,663 | | 998,858 | 10 |
| Holkar's | | | 67 | 65 t | . 57 | 552 | 8 | 966 | 6,002 | + | 175,340 | <u>н</u> е | 182,338 | |
| Totals for Bailways | 769 | 769 | 5,6922 | 5,529 1 | 6,461 | 6,298, | 946Į | 195,448 | 617,580 | 452,764) | 17,283,523 | 8,220,261 | 26,769,578 | 17,489 |
| Indus Steam Flotills | - | - | - | - | 675 | 575 | - | 244 | 919 | - | 9,8964 | 4 | 9,659¥ | - |
| Totals for Railways } and Flotilla | | · | | | 7,0362 | | | 195,6991 | 617,79 9) | | 17,292,919} | | 28,779,487 | |

TABLE NO. 1.-STATEMENT OF TRAFFIC OR the INDIAN

RECEIPTS and EXPENSES 'for the Year ended 31st December 1875.

RAILWAVE during the Very anded 21st December 1975

| RAILWAYS during the | Year ended 31st December 1875. | |
|---------------------|--------------------------------|--|
| | | |

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| · | | ••••••• | | * | . Go | oda Traffic. | | | | | |
|---|-----------------------|-------------------------------------|--|--------------------------------------|-----------------------------|------------------|-----------------|------------------|-------------------------------|---------------------|-----------------------|
| | | Number | of Tons of M | inerala. | | · N | unber of To | ns of Genera | l Merchaudi | je. | |
| | Number of Live Stock. | Number of Tone of Coal and Coke. | Number of Tons of all other Minerals. | Total Number of Tons of Minerals. | Of Pirst or Lowest Class | Of Second Class. | Of Third Class. | Of Fourth Class. | Of Fifth of Highest Class. | Special and Sundry. | Total of all Classon. |
| | | | | | | | | | | | · |
| | 5,388 | 515,904 | | 515,904 | 750,412 | 183,461 | 47,747 | 23,387 | 8,613 | 78,409 | 1,084,049 |
| | 71 | · 9 | . . | 9 | 108,520 | 18,590 | 6,629 | 1,640 | 217 | 4,088 | 128,662 |
| | 274,369 | 577 | _ | 677 | * 440,408 | 169,650 | 30,675 | 88,400 | 4,690 | 256,882 | 914,850 |
| | 15,572 | - | - ¹ | | 156,815 | 50,778 | 24,755 | 8,448 | 4,720 | 169,911 | 414,52 |
| | 200,551 | { 1,576 27,169* | } 18,376* | 47,121 | 98,484 | 49,587 | 47,911 | 1,134 | 1,826 | 201,308 | 394,49 |
| | 455 | 1,055 | - ' | 1,055 | 151,940 | 54,316 | 25,037 | 15,974 | 2,558 | 132,969 | 882,01 |
| | e <u>6</u> ,707 | | _ | Ξ. | 74,689 | 6À | · 16 | 1,373 | 77 | 45,020 | 121,24 |
| | . 2,047 | 4,442 | 3,902 | 8,344 | 81,657 | 87,464 | 8,295 | 1,676 | 202 | 162,779 | 237,07 |
| | 32 | 1,986 | | 1,986 | 84,194 | 18,315 | 11,898 | 4,893 | 527 | 184,220 | 207,47 |
| | • · · · | | | · . (| | . • | | · . | | • | 2 |
| | . 111 | . 48 | - ' | - 49 | - | | _ | - | - | \$2,095 | 52,01 |
| | , ' | 4,797 | | 4,797 | 8,417 | 1,082 | 1,118 | 481 | . 23 , | 1,839 | 6,90 |
| | ÷ | - | - | · | 9,346 | 16,585 | 1,034 | 146 | 70 | - | 26,95 |
| • | | _ | . – | | 4,688 | 19,460 | 150 | . 4 21 | | - | 24,27 |
| | 512 | | · | — · | 28,926 | 5,309 | 2,707 | 287 | 378 | - | 37,40 |
| | | - | | | 6,888 | 7,479 | 141 | 25 | 3 | - | 14,52 |
| | - | <u> </u> | - | | 3,103 | 869 | 64 | - | - | · 24 | 3,66 |
| | - | | - | - | 7,116} | 1,269‡ | 2224 | - | - | 8,014 | 162,17 |
| | 11 | 150 | . — . _ | | 183,079 46,660 | \$,411 3,755 | 1,385 2,911 | - | | 25,519 14,586 | 69,11 |
| | 505,621 | 557,696 | 22,378 | 579,974 | 2,130,781 | 580,6944 | 207,2271 | 92,388 | 18,705 | 1,811,401‡ | 4,847,18 |
| | •••• | | | - | - | - ' | _ | <u> </u> | - | - | 41,40 |
| | | | | | | · | | | | | 4,358,64 |

* On Company's account.

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| i 0-a | |
|--------------|--|
|--------------|--|

| | | | | • | | | | S1 | ATEM | ENT OF | TRAFS | TC ON | the IND | IN RAI | [[.WA ¥ |
|---|-----------------------|-----------------------|---------------|---|--------------|---------------|------------------|----------------|------------------------------------|--------------------------|----------------------------|----------------------------|---|--|--------------------|
| | | | Numbe | r of Br | gines an | d Vehicle | s used i | 1 CONV | ying Tr | aftio. | | | | Number in | of Mile buntin |
| | | | | Carris | (Ca. | | | | Aven | age Num in eac | ber of Ve a Train, | hioles | ipecta) | struc- Bail- | |
| Bailway. | | | | | | | | 1997 | ch Pae- | Goods | In each Passen Goods | Mixed zer and Train, | veluding 6 ains. | ding Con for athe | . |
| • | Engines. | Pirst Class. | Second Class. | Internediate Clau | Third Class. | Fourth Cines. | Total Number. | Trucka. | Carringes in each sougur Train. | Trucks in each Train. | Corriagos. | Trucke. | By Passenger (including Special and Troop) Trains. | By Goods (including Construc- tion Materials for other Rail- ways) Trains. | By Mineral Trains. |
| GUARANTEED. | 414 393 | 73 73 | 68 86 | 81 103 | 324 324 | - | 561 586 | 6,380 5,385 | 104 164 | 2% 28 | 16) 17 | 01 71 | 1,207,048 | 2,633,7691 | 210 859 |
| 2nd " "Jabalpur Line | 395 \$6 \$6 | 1st half 8 2nd "8 | 14 14 | 4 | 30 30 | Ξ | 50 56 | 881 831 | 14 | 257 231 | 71 71 | 19 19† | 178,288} | | 110 |
| reat Indian Peninsula - | 831 | 79 | 146 | com- posite 87 com- | 869 | 67 | · 748 | 6,760 | 14 | 201 | 101 | 15 | 1,801,185 | 2,480,504 | - |
| fadras | 96 | 96 | - 68 | posito 33 com- | 200 | 88 - | 2 ⁸⁵⁵ | 8,872 | 9 | 19 | 6 | - 10 | 28,204 | 522,188 | - |
| tembay, Baroda, and Central Iudia | 62 | 13 | 25 | posite 16 | 144 | - | 198 | 8,516 | 91 | 48 | 91 | 14 | 459,190 | 396,428 ‡ | - |
| ind, Punjab, and Delbi - | 59 | 88 | | 20 Roval saloon car- riages | 205 | - | 814 | 2,865 | 13 | 84 | | 18 | 479,010 | 457,9 60 t | - |
| South Indian | 60 ⁻ 43 | 3 3 1 81 | 13 ' 16 | 8 | 139 87 | | 246 | 964 702 | | - | 4 | 8 | 192,485 | 145,304≹ | - |
| Judh and Rohilkhand | 50 | Uppor 19 | - | com- posito 21 | | | 249 | 820 | u | .19 | 10 | 11 | 11,240 | 128,888 | |
| STATE. | , | Upper 9 | • | | Lower 52 | | តា | 261 | | | 8 | 10 10 | _ | • | • |
| nicut ia a nd South-eastern - Nalhati | 6 | 2 | | | ءہ بر | 5 | . 8 | 17 | | | ß | 7 | - | - | - |
| mraoti | 8 | - | - | com- posite l | 2 | 1 | : 5 | 8 8 | - | 28 | 5 | 10 | 12 | 144 | - |
| Thamgaon | 2 | - | · \ | posite 1 com- posite | 2 | 8 | 5 | S 3 | - | 22 | -8 | . | | 648 | _ |
| (isam's | 5 | | 6 | om- posite | 10 | 10 | 31 | 70 | 11 | 22 | 12 | 14 7 | 10,630 | 41,1 32 9,204 | - |
| Vurdha Valley | 1 6 | | - | 1 | \$ 7 | و | 6 11 | 23 91 | 18 1- | 14 28 | - 8 . | | · | 1,452 | _ |
| Panjsb, Northern | 9 | 8 | 4 | - | 81 | - | 3 48 | 104 | | T | 13 | | | | - |
| Rajpootana | ธา | 22 | 11 | - | 88 | break | 116 | 806 | 15 * | 25 | n | | 4,205 | 195,608 | - |
| Holkar's | 17 | 6 | 5 | | 80 | vans 8 | 41 | 1 55 | 19- | 19 | | 11 | 63,49 2 | 87,183 | 210,974 |

(12508.)

5 ¹ 1

| (10508) | | |
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| | | Materialu es. | diller. | BC DCL | Con Kins. Con | ····· | | | | Goods | Traffic. | | | | | |
|---------------------------------|----------------|-----------------------------------|-----------------------------|--------------------------|--|------------------------|-----------------------------|---------------|---------------|----------------|--------------------|------------------------|------------------------------|---|---------------------------------|--------------|
| By Mix | | Purposes. | of Train Y | Train Miles | ugraee, Parcols, Car- lorsen, Dues, &u. con- Passenger Trains. | | 'n | | Genoral | Merchandi | Be. | | | ise. | roportio)p and D Trailio | ko₩u |
| Passenges Goods Ti (P.) (| · .} | By Traine corrs for Revenuer J | Total Number of Train Miles | Number of T open Mile | Ercens Luggue riagos, Lurace veyed in Pass | Minorals. | First or Low- est Class. | Becond Class. | Third Class. | Fourth Class. | Fifth Class. | Special and Sundry. | Total of all Classos. | Total Mineral and Gene- ral Murchandise. | Up. I | Dowu |
| 037,7061 | 895,1773 | 109,265 | 5,613,840 | | Ing. and parcols. 2,572,258 args., &c. 1,363,635 | \$8, 215,046 11 | 51,800,106 | 55,001,898 | 10,995,989 | 6,240,014 | 1,334,622 | 62,893,421 2 | • 98,274,550 38 | 8,180,596 | 48-43 | 50.22 |
| 60,669 | 102,709 | B,4571 | 448,181 | | Lug. and parcels. 420,605 cargs., &c. 103,470 | 2,066 | 14,130,382 | 2,782,771 | 1,201,879 | 352,842 | 40,728 | 809,338 | 19,843,930 | 9,545,996 | 48.17 | 5 1'8 |
| 226,004 | 863,505 | ا مند | 4,382,198 | 8,461 | - | 84,5831 | 19,928,825 | 52,291,764 | 9,871,288 | 7,548.488 | 1,488,129 | 41,178,628 | 281,799,561 2 | 31,884,140 | 66 | 81 |
| 683,507 | 893,915 | - | 2,127,759 | 2,490 | 1,144,078 Luggage | - | 26,824,179 | 8,77¥,782 | 4,149,754 | 1,768,587 | 533 ,528 | 37 ,452,18 7 | 68,499,967 | 68,490,967 | 60.37 | 8910 |
| 105,655‡ | 155,992‡ | 48,059 | 1,158,2262 | 2,692 | only. 293,184 Luggago, &o. | 5,765,728 | 15,817,493 | 10,286,842 | 11,750,491 | 215,612 | | 18,851,058 | • | 63,107,222 | 55.29 | - 14 |
| 225,413 | 100,6084 | 82,287 1 | 1,846,232 | 8,029 | 665,611 No. of horses, cargs., Ac. | 220,433 | 16,895,756 | 8,792,192 | 3,695,776 | 9,145,771 | 611,825 | 17,867,487 | 51,308,607 | 51,529,040 | 64 | |
| 845 | 5,054 | 11,541 | 856,593 | 1,643 | 11,406 103,057 | <u> </u> | 4,785,640 | 1,223 | 810 | | | | | 8,707,189 | 84 | |
| 52,752 | 146,094 | - | 533,638 | 8,972 | 268,637 | 898,653 | | • • | | | | | | | | |
| 409,024 | 409,024 | 47,237 | 1,005,415 | 3 1,846 | 887,784 | 68,562 | 5,348,950 | 1,380,79 | 1,829,88 | 524, 87 | 0 .58,6 6 | 1 20,835,06 | 18 26,923,146 | 28,991,71 | | |
| 21,665 | 19,055 | 98 | 39,919 | 8 1,425 | 8,151 | 78 | | _ | | - | - | 747,88 | 14 747,83 | 748,11 | 7 99.04 | |
| 12,361 | 18,129 | 43 5 | 30,92 | 5 1,18 | s 7,783 | 130,65 | 1 58,29 | 4 20,27 | 5 29,98 | 9 11,68 | 1 65 | 32 50,11 | 14 179,88 | 5 310,53 | G ` 78 *89 | 2 1 |
| 2,283 | 2,855 | - | 5,24 | 4 874 | - | - | 60,80 | 7 99,03 | 5 6,22 | 3 87 | 9 44 | 81 — | 162,86 | 8 162,86 | s – | |
| 825 | 2,433 | 1 | 8,89 | 6 48 | - | - | 87,80 | 9 156,63 | 7 1,21 | 2 84 | • | - 88 | 195,72 | | | |
| 19,282 | 89,48 1 | - | 140,45 | 5 1,16 | | - | 2,459,20 | 6 547,21 | • | i | | | 3,304,67 | | | |
| 888 | 2,500 | - | 6,58 | 6 29 | • – | | 131,51 | | 1 - F. | | S | 58 | 377,78 56 1 5 8,79 | ł | | |
| 8,087 | 2,501 | | 6,85 | 1 i , | Luggage &c. | | 119,19 276,476 | | | | | 64,13 | | | | |
| 38,146 | 7 | 1 | 46,98 | | Carriage horses, & 50,488 | 5. 2. | ta i | | • | | - | 418,4 | | 12,898,9 | 48-9 | 6 |
| 215,428 2,155 | | | | | | • | 2,381,37 | | | | - | 459,0 | 16 8,130,68 | 1 8,13 0,64 | 81 D.8 | 7 |
| 3,143,751 | | | H 17,950,81 | 13 | 7,228,40 | 94,906,14 | 32 40577643 | 14577613 | 49,683,8 | 95 21,149 8 | 77 6,3 99,3 | 10 18414489 | 810790258 | 1 90569721 | 73 | |

during the Year ended 81st December 1875-continued.

travelled by Trains (except piloting, and assisting).

Number of Ton Miles (expressed in the Number of Tons moved One Mile).

42

TABLE No. 3 .-- GBOSS RECEIPTS of the Indian RAILWAYS

| | | | | <u>.</u> | | Passe | nger Traff | io. | | | | | | |
|---------------------------------------|----------------|-------------------------|------------------------|---------------------------------|-------------------------|---|------------------------------------|--|----------------------------|---------------------------|--|--|------------------------------------|---------------------------|
| | | · | Receipt | s from Pas | senge rs. | • | | arcess arces, eyed | | Trains. | ŝ | iger | Train | |
| Railway. | First Olass. | Second Class, | Intermediate Class. | Third Class. | Fourth or Coolie Class. | Holders of Season or Periodical Ticketa. | Total Receipte from Passongers. | Total Receipts from Excess Lugrace, Parcela, Carriages, Horsea, Dura, &c. conveyed ht. Passengey Traina. | Receipts for Mail Service. | Receipts from Special Tra | Roceipta from Troop Trains. | Total Receipts from Passenger Traillo(P.) | Passenger Receipts per Tr Mile. | Receipts from Live Stock. |
| | <u> </u> | | <u> </u> | | | l | | | | | | | | _ ¤ |
| GUABARTSBD. Bast Indian, Main Line | £ 42,383 | £ _ 1 33, 808 | £ 88,556 | B 574,907 | - | -9 8,610 | 48 692,950 | £ 89,177 | 8 8,867 | <i>1</i> 8 17,588 | £ 18,823 | 42 801,807 | 8. 7.139 | £ 80 |
| "Jabalpur Line - | 5,702 | 4,400 | 9,459 | 45,068 | | | 57,629 | 7,444 | 985 | 5,806 | 5,878 | 1 | 6.656 | |
| Great Indian Peninsula | 31,097 | 87,119 | | 144,058 | 154,845 | 1,048 | 857,661 | 60,968 | 8,241 | · 9,967 | 47,8 78 | 478,580 | 6-96 | 6,57 |
| Madras | 12,964 | 14,812 | _ | 136,565 | 81,899 | - 118 | 196,658 | 24,524 | | 5,678 | | 226,050 | 0-852 | |
| Bombay, Baroda, and Central India | 6,055 | 11,795 | Thir Mail 19,870 | d class. Ordinary 123,124 | | 8,883 | 194,157 | 18,846 | | •• | | • | | |
| Sind, Punjab, and Delhi | | 15,253 | \$,816 | 165,668 | | | 195,618 | 18,546 \$8,513 | 165 1,022 | 8,447 | 7,285 | 228,349 | 8.10 | 11,48 |
| South Indian | | 1,619 | | 48,025 | 1 | 10 | 50,581 | 1997 - S. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | - 14 - 14 - 14 | 1,818 | 1 | 221,469 | 6*28 | 11 |
| Bastern Bengal - | 4.014 | 3,134 | | 93,559 | 67,954 | 1.897 | 99,068 | 8,019 | 6 | 569 | 55 | 54,280 | 8.14 | 8 |
| Oudh and Rohilkhand | Upper 6,093 | - | • · · | Lower 122,845 | 07,804 | 1,007 | | 10,635 | 70 | 510 : | 1. | ° 1 10,279 | 7.28 | 2 |
| BTATE. | | | | 122,040 | | | 128,987 | 8,454 | | 215 | | 137,588 | 6*54 | 1 |
| Calcutta and South-castern - | Upper 187 | - | | Lower 5,956 | 4 | i | 6,145 | 911 | | - | - | ، 6,864 | • 5-87 | - 1 |
| Nalbati | 179 | 943 | ¥ | 1,104 | 8,048 | - | 4,569 | 665 | 90 - | 10 | _ | i 5,824 | 8.61 | · · |
| Amreoti | 29 | 59 | | 610 | | - | 691 | ن المراجع (المراجع (مولاً المراجع (المراجع | | | | 740 | 6.20 | _ |
| Khamgaon | 11 | 12 | - | 67 | - 88 | | 125 | 98 | | • | 1192 Α - 1 199 | ; 151 | 8-67 | _ |
| Nisam's | 1,303 | 1,816 | _ | 3,814 | 18,515 | 6 | 19,855 | 2,878 | - 1 | 813 | 2,096 | \$5,136 | 8-89 | 1 |
| Wardha Valley - | | \$1 | | 57 | \$156 | - | 566 | | - | | | 896 | 8-96 | |
| Trhat | 60 | . 87 | _ | 565 | | | 658 | 15 | ц ц | یرد. 19 | n Henry Henry Kinaa | 686 | 4-41 | |
| Punjsb, Northern | 894 | 489 | _· | 8,069 | | _ | 8,988 | | | 846 | : . کیکی و سر ی د | 9,704 | .6*04 | |
| Rejputans - | 1,146 | 1,727 | | 54,266 | | . 94 | 57,162 | 4,148 | | 425 | | 61,780 | 5-62 | . 1 |
| Holkar's | 225 | 488 | , . _ | 6,461 | - | _ | 7,109 | 608 | | 94 | 18 | 7,899 | 8-48 | |
| Totals for Bailways | 125,578 | 114,178 | 94,481 | 1,468,768 | 270,551 | 9,409 | 8,078,045 | 285,085 | 7,846 | 00,890 | 81,270 | 2,453,186 | | m.84 |
| Indus Steum Flotills | 1,471 | 834 | | 4,082 | - | - | 5,887 | 200,080 596 | - | | 61,2/U | 6,482 | - | |
| Totals for Railways and Flotilis | 197,044 | 114,507 | 94,481 | 1,467,850 | 270,551 | 9,499 | 2,063,932 | 285,680 | 7,846 | 50,890 | 81,970 | 2,459,618 | | £1,64 |

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during Year ended 31st December 1875.

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| | *** | | | , | Goo | ds Traffi | B. | | | * | | | bas | per | <u>;</u> | arett | #+('i | |
|------|---------------------|----------------------|----------------------------------|--------------------------------|--------------------|-------------------|-----------------------|---------------------------------|-------------------------------|---------------------|-------------------------------------|-----------------------------|--|------------------------------------|-----------------------------------|---------------------------------|---|--------------------------|
| 1 | loccipts | from Mi | norals. | Receip | ots from | General Stock | Merchan and Min | dise (exc ierals). | lusive of 1 | live | Goods | and the | Passenger (+(G.) | Roceipta | eipt a —(1 | per | from, Passengen sectioneous-(P.)+ | Mile. |
| | From Coal and Coke. | From other Minerals. | Totsi Receipts from Minerals. | From First or Lowcat Class. | From Becond Class. | From Third Claus. | From Fourth Class. | From Fifth or Highest Class. | From Special and Sun- dry. | Total | Total Receipts from Traffic-(G.) | Goods Receipts per Mile, | Total Receipts from P Goods Traffic-(2') +(| Passenger and Goods Train Mile. | Total Miscellaneous Receipts—(M.) | Miscellaneous Receipts Mile. | Total Receipts from Gods, and Miscellar (G.)+(M.) | Total Receipts per Train |
| | £ 234,110 | e - | æ 1834,119 | £ 619,549 | .2 851,188 | £ 146,748 | £ 80,639 | <i>E</i> 17,188 | £ 172,499 | £ 1,887,761 | £ 1,622,679 | e. 9*956 | £ 2,423,986 | s. 8-807 | £ . 85,671 | <i>a.</i> •811 | £ 2,599,637 | s. 9-119 |
| | 5 | + | 5 ¹ 5 | 54,747 | , 17,705 | 11,212 | 3,600 | 616 | 4,288 | 92,168 | 92,195 | 8-607 | 169,402 | 7*606 | 15,550 | *898 | 185,042 | 8:30 |
| | 478 | - | 478 | 559, <u>831</u> | 468,723 | 118,564 | 106,325 | 88,436 | 164,220 | 1,450,600 | 1,457,660 | 10.22 | 1,936,196 | 3-84 | \$6,890 | -17 | 1,973,086 | 9.01 |
| | · | - | <u>-</u> | 126,359 | 55,402 | 33,316 | 18,628 | 8,833 | 98, 928 | 840,996 • | 343,647 | 4*853 | 569,697 | 5-88-5 | 19,797 | -186 | 580,404 | 5-54 |
| | 807 | 805 | 1,112 | 81,4%9 | 63,626 | 94,489 | 8,234 | 10,079 | 77,437 | 330,254 | 342,865 | 12.44 | 6 71,20 4 | 10-24 | 14,851 | .26 | 585, 4 55 | 10-5 |
| | 785 | - | 735 | 83,143 | 60,403 | 38,478 | 26,529 | 5,802 | 60,115 | 268,97 0 | 269,824 | 9-66 | 491,285 | 7.77 | 20,654 | -83 | \$11,937 | 8-1 |
| | - | + | - | 27,842 | u | 3 | 1,515 | - 78 | 12,199 | 41,64 3 | 41,785 | 8-42 | 95,965 | 5-66 | 6,704 | • • | 108,660 | 51 |
| | 1,865 | 197 | 1.562 | 10,623 | 81,687 | 8,380 | 2,619 | 659 | 95,133 | 144,801 | 145,890 | 12-76 | 856,169 | 9'87 | 12,811 | . •46 | \$68,980 | |
| | 211 | | 211 | 27,517 | 10,131 | 18,085 | 6,559 | 880 | 71,830 | 180,002 | 180,224 | 4-84 | 267,810 | 5*59 | 6,936 | 5 •14 | . 874,740 | 5. |
| | 4. | | 4 | <u> </u> | - | - 1 | | - | 2,839 | 2,839 | 8,854 | \$.16 | 9,208 | 4.64 | 1,167 | • 58 | 10,365 | 5. |
| | 783 | - | 763 | . 384 | 582 | 478 | \$03 | . 37 | 265 | 1,788 | 2,566 | 2.83 | 7,890 | 5.18 | 55 | 2 .03 | 7,942 | . 5 . |
| | : بر میبند - | | . – | 1,286 | 8,075 | 248 | 40 | . 26 | . – | 4,670 | 4,670 | 81-14 | 5,410 | 20.63 | 10 | •06 | 5,426 | 201 |
| | | | | . 539 | 8,075 | 40 | 16 | í | | 8,671 | 8,671 | 23-89 | 3,822 | 19-`62 | u u | •00 | 8,638 | 19 |
| | | | - | 12,003 | 4,838 | 2,094 | 465 | - 386 | - | 20,186 | 20,204 | 5-02 | 45,340 | 6* 46 | 174 | 02 | 45,514 | 6.1 |
| | - | · | · | 1,018 | 1,152 | - 56 | . 12 | . 2 | - | 2,340 | 2,240 | 9.25 | 2,635 | 9.43 | - 89 | 14 | 2,674 | |
| | - | . — | - | 634 | 117 | 28 | - | . | . 4 | 788 | 788 | 4.85 | 1,469 | 4.38 | 9 | •08 | 1,478 | 4·3 6•0 |
| | | | | 2,284 | 592 | 1,251 | - | | 287 | 4,884 | 4,364 | 5-89 | 14,068 | 5-99 6-008 | 208 4,620 | · 09 · 177 | 14,278 174,728 | 6-6 |
| | 278 | , | 278 | 79,519 | 6,238 | 8,847 | . - . • | - | 20,081 | 108,085 | 108,378 23,518 | 5-24 | 170,108 81,848 | 4-63 | 9,620 608 | •09 | 31,945 | 4.7 |
| | | | | 17,266 | 1,660 | 2,016 | - | 82,028 | 2,571 | 28,513 4,858,826 | 4,619,958 | _ | 7,078,094 | - | 226,158 | [| 7,299,847 | |
| | £38,785 | 503 | 289,987 | 1,705,458 — | 1,078,598 | | 250,484 | 62,028 | | | 78,548 | - | - | - | - | - | 86,487 | |
| ł | | 502 | 289,287 | 1,705,458 | 1,076,598 | 458,668 | 250,484 | 82,028 | 783,595 | 4,358,928 | 4,698,506 | - | 7,078,094 | _ | 226,155 | - | 7,384,277 | – |

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44 TABLE NO. 4.- ENPENDITURE ON REVENUE ACCOUNT

| | | enance a Way aud | | | Cost of Locomoti Wages ar | ive Por 10 Mat | erists. | nowals and | of Car Wagge | าว่อสุสตร | Coachu ch | ng and andise | | Collection of | n and De Goods. | livery |
|--------------------------------------|----------------------|---------------------|--------------------|--------------------------------------|---------------------------------|--------------------|---------------------------------------|------------------|--------------------|---------------------------------------|--------------------|--------------------|---------------------------|-----------------|--------------------|----------------------------|
| Railway. | Gr Ordi- nary. | om. Special. | Per Train Mile. | Per cent. of Gross Re- celpts. | Gross. | Per Train Mile. | Per cent. of Gross lie- ceiple. | Gross, | Per Train Mile. | Per cent. of Gross lie. Colpta. | Grass, | Per Train Mile. | Per cent. of Gross Re- | Øross. | Per Train Mile. | Per cent. of Orose Ile- |
| | ł | | | | | | | | | | | r T | <u>,</u> | | <u> </u> . | |
| GUARANTEED. | 4 2 | ß | d. | | £ | d, | | | đ | | \$ | d. | | £ | d | { |
| ast Indian, Main Line - | 226,435 | _ · | 9.87 | 9.02 | 261,330 | 11.20 | 10-61 | 97,158 | 4.54 | 5.87 | 223,268 | 9.69 | 8:86 | (| - | - |
| » Jabalpur Line - | 88,654 | - | 20*81 | 20-80 | 27,901 | 15.03 | 15.08 | D,778 | 5-26 | 8-29 | 16,401 | .8*53 | 8-80 | | + | _ |
| | | · . | 5 | · · · : | | | | | ian i | | ļ | 8 | | | | |
| roat Indian Peninsula | 15 2,01 6 | 6,726 | 8.69 | 8.02 | 870,737 | 20.20 | 15 79 | 132,468 | 7 20 | 6.21 | 166,036 | 9'60 | 8.42 | 1.11,018 | -64 | |
| ladraa | 122,442 | 29,574 | 17 . 16 | 25.79 | 134,123 | 15.13 | 22 76 | 29,060 | 8*28 | 4*\$3 | 57,059 | 6.48 | 9.68 | <u> </u> | | - I |
| | | | ł | | • | · · | | ~ | - S | 1. ¹ . | | | | | | |
| ombay, Baroda, and Central India. | 63,371 | 18,008 | 16.87 | 13.90 | 101,851 | 21 • 11 | 17 40 | 94,114 | 4*99 | 4.18 | 46,474 | 9.63 | 7.94 | 18,877 | 2.87 | 2.32 |
| ind, Punjab, and Delhi | 68.578 | 15,493 | 14.10 | 15.40 | 108,019 | 19.26 | 21 10 | 28,635 | 5.10 | 5-59 | 54,751 | 9.76 | 16-69 | 2,208 | -39 | •48) |
| | Gross | | ~~ ~~ | | | Į., | ÷ | | | | | | | | | |
| outh Indian 🛛 - 👘 - | 7,698 | - | 2.0 | 7.2 | 21,601 | 14.2 | <u>81-0</u> | 8,928 | 1.0 | 3*8 | 10,417 | 7*0 | 10-8 | — | | - |
| astern Bengal | 32,9 14 | 31,743 | 24 - 5R | 80.35 | 83,518 | 15.07 | 12 48 | 14,478 | 6.21 | 5-80 | 37,439 | 16.84 | 13.91 | | | _ |
| Wikerin Denfan | 1 | | 01 00 | | 00,010 | | | | | | | | | | | |
| udh and Rohikhand | 33,016 | | 7.80 | 18.00 | 54,360 | 12.07 | 19·7A | 11,185 | 8.66 | 4.08 | 85,864 | 8.25 | 18.03 | | - | - |
| | | | | | | | | | | | | | | | | |
| STATE. | | | l | | | | 1 | | | | | | | 1 | Į | |
| alcutta and South-eastern | 1,634 | 580 | 18-17 | 19-45 | 2,878 | 17.39 | 87.77 | 1,136 | 6.79 | 10.84 | 1,065 | 6:44 | 10.58 | - | - | - |
| 7-114* | 1.011 | | | | · · | 19.85 | 0.4+0E | 799 | | A-04 | | 6 32 | 10.58 | 156 | 1.58 | 1.06 |
| falhati | 1,811 | | 14-45 | 23-8 | 1,666 | | 2/1 00 | 140 | 6.12 | 9-97 | 010 | U GE | 10 20 | 1 | | - |
| Imraoti | 820 | - | 14-65 | 5-90 | S23 | 37.89 | 15.38 | 687 | 28.69 | 11'-56 | | 107.09 | \$3 *36 | - | - | - |
| | | | | | | | | | | | | 201.40 | | | | |
| Chamgaon | 290 | _ | 17 . 25 | 7*90 | 578 | 35*22 | 19.12 | | 28.10 | 9"78 | ane ¹ 7 | 80*48 | 84 UT | , | - | - |
| lizam's | 16,132 | | 37 - 57 | 85 40 | 14,275 | 24-39 | 31-36 | 4,811 | .8*28 | 10 57 | 16,196 | 27 67 | 85.98 | . | - | - |
| | | • | | | | | | | | | * | | | i | 1 | |
| Vardha Valley | 697 | - | 29 95 | 26 07 | . 616 | 27.70 | 24,16 | 828 | 14 01 | 12.10 | 1,039 | 29 UA | 88.82 | | - | |
| Sirhut | 506 | - | 17.7 | 34-8 | 357 | 12.00 | 24-8 | 17 | -8 | 1-1 | 187 | 6 5 | 12.8 | \$0 | •7 | 1.8 |
| | | | | | | | | | | | | | | | <u>`</u> | |
| unjah, Northern | 1,662 | 830 | 10.12 | 18.96 | 2,405 | 18-26 | 16 85 | 383 | 1.96 | 3 68 | . 1,846 | 9 41 | 13-91 | | 59 | .81 |
| Rajputana | 30,952 | 2,398 | 14.35 | 18.89 | 40,412 | 17.48 | 23-14 | 2,941 | 1.57 | 1.69 | 16,825 | 7.00 | 9-84 | | - | - |
| | 1 | | | | | ŀ | | | | | | | | | | |
| Holkar's Totale for Railways - | 8,284 797,852 | 94,481 | 5'40 | 10.12 | 8,537 1,186,006 | 14-26 | 26.73 | 2,107 863,228 | 3-63 | 8.78 | 8,818 604,300 | 18.80 | 24-94 | 97,U94 | <u> </u> | <u> </u> |
| TORUG INI UNITALIA DA + | 191,002 | | | | 1,100,000 | <u> </u> | | 000,240 | | | | <u> </u> | | +170 4 2 | | |
| Indus Steam Flotilia - | - | • | • | • | • | <u>```</u> | * 1 | | • | | | ¢ . 1 . | | 4 | •. | |
| Totals for Railways) | ļ | | • | • | 1 | 1.1 | | j. | | 4 | | | <u>.</u> | | | |

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during Year ended 31st December 1875.

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|] | Rates | and Tax | ei. | Compeus | ation for I mage and I | ersonal | Injury, | Logal and E | l Parliar | nentary | Miscellan Extendito | eous Wo | rking | | | | | |
|---|----------|--------------------|--------------------------------------|----------------|---------------------------|--------------------|--------------------------------------|----------------|--------------------|--------------------------------------|------------------------|--------------------|--------------------------------------|-----------------|---------------|-------------------------------------|--|--|
| | <u> </u> | | | | | | | E | | | in the | toregoir | · • • | | | | | |
| | Gross. | Per Train Mile. | Per cent. of Gross Re- cenpts. | Gr Personal | Goods. | Per Train Mile. | Per cent. of Gross Re- ceipta. | Gross. | Per Train Mile. | Per cent, of Gross Re- oeipts. | Gross. | Per Train Mile. | Per cent. of Gross Re- ccipta. | Gross. | Train ile. | Per cent. cf Gruss Re- cupts. | | |
| | | <u>م</u> ير ا | 1 200 | ronomat | Goods. | | 208 | | E A | 1 208 | | Per Per | Personal | | Nile. | 208 | | |
| | £ | а. | | £ | £ | d. | | £ | d | | £ | đ. | l | e | a . | | | |
| | 4,815 | -81 | -19 | _ · | . 1,410 ` | -06 | •06 | 787 | .02 | ·03 | 148,870 | 6.40 | 5-95 | 963,085 | 8.43 | \$ S · 37 | | |
| | - | | - | - | 110 | .06 | +06 | · 1 | - | _ | 14,481 | 7-60 | 7.83 | 107,580 | \$ -82 | 58100 | | |
| · | 3,086 | -17 | -15 | 746 | Cr. 653 | | - | 728 | •04 | ·04 | 89,289 | 4.89 | 4*58 | 932,787• | 4.38 | 47:28 | | |
| | 877 | -09 | -15 | _ : | 693 | -06 | -09 | 617 | -07 | ·11· | 89,684 | 4.90 | 6*77 | \$14,205 | 8.89 | 70-28 | | |
| | 685 | -14 | -12 | 85 | 109 | •03 | -08 | 2,898 | - 449 | -41 | 47,029 | 9.87 | 8-13 | 318,544 | 5.20 | 54-41 | | |
| | 198 | -08 | -04 | 1,120 | 4,348 | -97 | 1.06 | 560 | •10 | -11 | 40,178 | 8.77 | 9.4 | 328,067 | 4.87 | 64-05 | | |
| ! | 536 | | - 8 | { · _ | 18 | | _ | 2 | • | | 6,691 | 4.0 | 8.7 | 49,776 | 2.8 | 48.9 | | |
| | 675 | -8 | -25 | | 551 | 184 | -19 | 190 | .09 | ·07 | 25,703 | 11.65 | a 9.56 | 167,191 | 6.27 | 62-1 | | |
| Ì | 0.0 | | | | | ł | | | | | 205700 | | | | { | | | |
| ļ | | | - | 5 | 762 | - 19 | *28 | - | - | - | 29,098 | 6-84 | 10.28 | 164,276 | 3.56 | 89.1 | | |
| : | | | | | | } | | | | | | · | | | 1 | | | |
| | 76 | -46 | • 78 | | - | - | - | - | - | - | 1,166 | 7-17 | 11.44 | 8,343 | 4-19 | 80 | | |
| | | -68 | . 05 | 24 | 8 | -21 | -34 | - | - | , _ | 875 | 6-79 | 11-05 | 6,138 | 8. 8 | 77. | | |
| | | - | | | _ | - | - 1 | <u> </u> | { _ · | - | | - | - | 4,138 | 16.4 | 78. | | |
| | - | | _ | - | - | _ | - | - | - | - | _ | - | _ | 2,583 | 18.02 | 68 | | |
| | _ | <u>,</u> | _ | _ | _ | _ | _ |) <u></u> - | - | | 428 | •78 | ·94 | 51,641 | 7.38 | 118-1 | | |
| . | | _ | | | _ · | , <u> </u> | | · | · · · | - | 159 | 6-83 | 5.95 | 8,847 | 10.58 | 107.2 | | |
| · | | | | | 1 | | | | | | | | | 1,087 | \$-16 | 75-6 | | |
| . | <u> </u> | [_ | - | | _ | - | - | - | | - | | - | | | | | | |
| | | | ⁻ | 1 - 1 | 8. | 99 | - •09 · | - | — | - | 1,816 | 6·71 | 9.23 | 8,058 | 3.42 | 56.42 | | |
| ļ | | | - | - 5 | 153 | •06 | -09 | · - · | - | - | 18,230 | 7-88 | 10.43 | 111,246 | 4.01 | 63.0 | | |
| | | - | | 8 | 4,248 | 7.10 | 13.51 | . 8 | -01 | -08 | 4,671 | <u>e 80</u> | 12.75 | 30,546 | 4.50 | 95-7 | | |
| | 10,697 | - | + | 1,938 | 11,653 | - | - | 5,236 | - | | 477,278 | _ | - | 8,072,068 | - | - | | |
| ľ | • | • | 4 | | • • | • | • | | | | | • • | • | 67,870 | | 70-8 | | |
| 1 | • | | | | | e. | | | | | | | | 3,789,923 | | - | | |

*Exclusive of 07,8424. 10s. 8d. charged to special funds.

SUMMARY.

71. The principal facts noted in the foregoing pages may be briefly summed up as follows: During the year 1875, 261 miles were added to the open system of Indian railways, bringing the whole extent now completed up to 6,497 miles, of which 768 are constructed with a double, and 5,729 with a single line: 5,676 are on the 5' 6" gauge, and 821 on the narrow gauge. The section of the South Indian Railway between Madura and Tuticorin was opened in December last by His Royal Highness the Prince of Wales. Fair progress has been made on the works of the Indus Valley and Punjab Northern Railways. The line towards Darjeeling has also been getting on fairly. Sanction has been given to the completion of railway communication between Bombay and the North-West Provinces, vi& Ajmere, to which place lines have lately been constructed, both from Agra and Delhi. In other parts of India works are going on. Authority has been given to take in hand railways which, in addition to the lines already executed, will bring the whole length of railway up to 9,415 miles.

72. His Royal Highness the Prince of Wales during his visit to India travelled over 4,829 miles of railway, and expressed his satisfaction with the arrangements which had been made for his comfort and convenience.

73. During the year, 288,186 tons of railway materials were despatched to India from this country, of which 124,192 consisted of fuel. Since the commencement of railway operations there, 5,181,724 tons of goods, of the value of 34,659,444*l*. have been shipped in 8,495 ships.

74. The proprietors of stock and debentures of the guaranteed lines number 62,608, of whom only 390 are natives residing in India. The proportion of stock held in India is 1.56 per cent. of the whole.

75. The total amount expended on the railways to the 31st March last was 105,790,929*l*., of which 93,720,794*l*. consisted of guaranteed capital, and 12,070,135*l*. of funds raised direct by the Government. Last year 2,760,940*l*. was expended on State lines, and 1,279,000*l*. on guaranteed lines.

76. The revenue derived last year from the open lines was 3,647,868*l*. The gross receipts were 7,412,179*l*., and the expenditure 3,764,311*l*. The passengers earned 2,459,043*l*., goods 4,703,509*l*., and miscellaneous receipts amounted to 249,527*l*. The sums advanced to the different companies for guaranteed interest amounted to 4,650,346*l*., which was 1,073,832*l*. more than they yielded.

77. The number of passengers carried was 26,779,437, being 2,498,978 more than the previous year. The proportion per cent. of the first class was 0.78, of the second 2.30, and of the lower classes 96.92. The number of tons carried was 4,388,649. The proportion per cent. of the gross revenue from goods was 65.67, and from passengers 34.33. The number of miles travelled by trains was 17,950,312, compared with 18,475,322 of 1874.

78. One very serious accident happened during the year, which caused the death of nine passengers, and injury to 13 more. The engine of a mail train ran off the rails on the Jubbulpore branch of the East Indian Railway. It is supposed that the cow-catcher attached to the locomotive dropped off and got under the engine when going at full speed.

79. Other accidents occurred to passengers, but they were occasioned by the imprudence or misconduct of the sufferers. Of railway servants, eight were killed and 25 injured from causes beyond their control, and 93 were killed and 173 injured by preventible causes. The total number of, accidents to trains was 868, compared with 767 of the previous year. They are principally caused by cattle trespassing.

80. The expenses of maintaining and working the railways amounted to 3,764,311*l*. compared with 3,841,522*l*. of the previous year. This outlay is, in several cases, augmented by the heavy cost of repairs in consequence of the damage done by floods. But one great source of ordinary expenditure is the large amount of tare, arising partly from the construction of the vehicles, and partly from the unequal stream of traffic up and down the lines.

81. The impressions left after a personal inspection of the railways are briefly these :----That they are conferring immense benefits on the country : that they are

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upon the whole in good condition, and carefully managed: that they may do more than has hitherto been done for the development of traffic, and for the increase of profits that a decrease in the rates of some of the present charges for conveyance, and an increase of facilities would assist to accomplish these objects: that measures of this description have been and are stin being taken : that close attention is required to the expenses of working and maintenance in order to secure economy : that the extension of the present system, and the construction of light feeders is much to be desired, whenever the state of the finances of the country admits of the necessary expenditure.

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I have the honour to be, My Lord Marquis, Your lordship's very obedient humble servant, JULAND DANVERS.

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APPENDIX.

THE INDIAN RAILWAYS, 1876.

GUARANTEED LINES.

- East Indian. 1,503³ miles. Calcutta to Allahabad, 629 miles; thence north-west to Delhi, 389 miles, and south-west to Jabalpur, 228 miles; also the chord line between Bardwan and Lakhmisarai, with a mineral branch to Karharbali.
- 2. Great Indian Peninsula. 1,2863 miles.
 - 1. The north-eastern line from Bombay to Bhusawal and Jabalpur, and from Bhusawal to Nagpur. 2. The south-eastern line from Bombay to Raichur, which is the junction with the Madras line.
- 3. Madras. $857\frac{3}{4}$ miles.
 - 1. South-western line to Beypur, with a branch to Bangalor, 492 miles; and another sanctioned to the foot of the Nilgiri mountains, 25 miles; also an extension from Bangalor to Mysore, 88 miles, surveying. 2. Northwestern line to Raichur, the junction with the Great Indian Peninsula, with a branch to Belari, 340 miles.
- 4. Bombay, Baroda, and Central India. Bombay to Ahmedabad, and thence to Wadwan, 389¹/₂ miles, with a branch from Anand to Dakor and Pali, 31 miles.
- 5. Sind, Punjab, and Delhi. 674 miles.
- .Delhi to Lahore and Mooltan in the Punjab, and Kotri to Karachi in Sind.
- 6. South Indian (late Great Southern of India and Carnatic, now amalgamated). Nagapatam to Erod junction, 168 miles; and from Trichinopoli to Tuticorin, 215³ miles, completed. Extensions in progress from Madras to Tanjor, 216 miles.
- 7. Eastern Bengal. $156\frac{1}{2}$ miles. Calcutta to Goalandu.
- 8. Oudh and Rohilkhand.
- Benares to Moradabad, 414 miles; Cawnpore to Lucknow, 45 miles; Nawabganj to Bahram Ghat, 22 miles; Chanausi to Aligarh, 61 miles; being 542 miles open.

STATE LINES.

- 9. Calcutta and South-eastern. 28 miles.
- Calcutta to Canning, on the Mutla River.
- 10. Nalhati. $27\frac{1}{2}$ miles. A branch from the East Indian Railway at Nalhat to Morshedabad.
- 11. Khamgaon. 71 miles. A branch from the Great Indian Peninsula Railway to Khamgaon.
- 12. Amraoti. $5\frac{1}{2}$ miles. A branch from the Great Indian Peninsula Railway to Amraoti.
- 13. Patri. 22 miles.
- A branch from the Bombay, Baroda, and Central India Railway to the salt works on the Runn of Cutch.
- 14 Tirbut. 53 miles. Chumpta Ghat to Darbhanga.

15. Hyderabad. (Nizam's Line.)

Wadi on the Great Indian Peninsula Railway to Hyderabad and Secunderabad, 121 miles.

STATE LINES NOT COMPLETED.

16. Punjab, Northern.

Lahore to Peshawar, 329 miles. Completed as far as Jhelum, 103 miles.

1. Agra to Jeypur and Ajmere, with a branch to Sambhar Lake, 251 miles. 2. Delhi to Bandikiu, and branch to Farruckhnagar, 142 miles; open from Ajmere to Nasirabad. 3. Indore to Neemuch and Ajmere, 450 miles.

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18. Indus Valley.

- Mooltan to Kotri, 493 miles. In progress.
 19. Indore and Khundwa. (Holkar's Line.) 86 miles. From Khundwa completed to the Nerbudda River.
 20. Wardha Valley. 45 miles. Sanctioned from Wardha to Warora. Opened from Wardha, 18 miles.
- Nagpur and Chattisgarh. 131 miles. In progress.
 Carwar to Gadak. 252 miles. Surveyed, but in abeyance.
- 23. Rangoon and Irrawaddy Valley.

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Rangoon to Prome, 160 miles. Works commenced.

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24. Northern Bengal. From the Ganges near Kooshtea on the Eastern Bengal Railway, to Jolpigori and Darjeeling Road. Surveyed. Works commenced.

1. INDIA.-GUARANTEED RAILWAYS.

LIST OF STATIONS.

| Names. | Mil es . | Names. | Miles. |
|--|-----------------------------|--|----------------------------|
| EAST INDIAN RAILWAY. Main Line. | Distance from Howrah. | BAST INDIAN RAILWAY-cont. Main Line-cont. | Distance from Howrah |
| · · · · · | | D-1 (()1 | 332 |
| HOWRAH | . 0 | Patna (City) Bankipur (Patna Civil Station) | 338 |
| Bali | 6 | DINAPUR | 344 |
| Connagar | . 9 | Bihta | 355 |
| Serampur | 12 | Koilwar | 355 |
| Baidyabati | 15 | Arrah | 368 |
| Chandernagore | 21 24 | Bihia | 382 |
| Hugli | 24 29 | Raghunathpur | 391 |
| Magra | 29 35 | Dumraon | 401 |
| Khanyan | •• | BAXAR | 411 |
| Pandua | 38 44 | Guhmar | 424 |
| Bainchi | 44 51 | Dildarnagar | 433 |
| Memari | 59 | Zamania | 442 |
| Saktigar | 67 | Sakaldiha | 459 |
| BARDWAN | 75 | MOGHAL SARAI (JUNCTION) - | 469 |
| Kanu Junction for loop line | 90 | Benares (Branch) | 475 |
| Mancur | | Ahraura Road | 478 |
| Panigar | 97 | Chunar | 489 |
| Rajband | 101 | Puhari | 499 |
| Durgapur | 106 | MIRZAPUR | 509 |
| Andal | 116 | | 521 |
| RANIGANJ | 121 | Gaipura | 530 |
| Siarsol - | 122 | Nahwai | 541 |
| Nimcha | 124 | | 553 |
| Asensol - | 132 | Karchana Naini (Junction with the Jabalpur | 000 |
| Sitarampur (Junction) | 138 | Line, though the fares are charged | |
| Barakar (Branch) | 143 | from Allahabad) | 560 |
| Maijam | 148 | ALLAHABAD | 564 |
| Jamtara - | 157 | | 575 |
| Kharmatar | 168 | Manauri - | 588 |
| MADHUPUR (JUNCTION) | 183 | Bharwari Sirathu | 600 |
| Jagadispur -] To | 191 | | 616 |
| Mahesmanda - } | 200 | Khaga BAHRAMPUR | 624 |
| Jagadispur Mahesmanda Giridi (Karharbaü) | 206 | | 637 |
| Baidyanath | 201 | Fatehpur | 647 |
| Simultala - J | 217 | Malwa | 656 |
| Nawadi - | 228 | Mohar | 671 |
| Ghidhar - | 235 | Sirsol | 684 |
| Jamoi - | 241 | CAWNPORE | 698 |
| Mongupur | 254 | Bhaupur | 711 |
| LAKHMISARAI (JUNCTION WITH | _ | Rura | 723 |
| LOOP LINE) | 262 | Jhinjhak | 735 |
| Bazhia | 271 | Paphund | 746 |
| Mokome | 282 | Achalda - | 758 |
| Barh | 299 | Bartua | 770 |
| <u> </u> | 310 | ETAWAH | 780 |
| Rukhtiarpur | 324 | Jaswantnagar • - | • |

(12508.)

$|1\rangle$ 1. INDIA.-GUARANTEED RAILWAYS-continued.

LIST OF STATIONS-continued.

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| Names. | Miles. | Names. | Miles. |
|------------------------------------|------------------------|--|--------------------------|
| EAST INDIAN RAILWAY-coni. | Distance | EAST INDIAN RAILWAYcont. | Distance |
| MAIN LINE-cont. | from Howrah, | JABALPUR LINE-cont. | from |
| · | | | Allababad. |
| Balan | 792 | Bargar | 39 |
| Sinkohabad | 805 | Dabura | 49 |
| Ferozabad | 817 | Manickpur | 63 |
| TUNDLA (JUNCTION) | 827 | Markundi | 73 |
| Agra (Branch) | 841 836 - | Majgaon | 86 |
| Barhan | 845 | Jetwar | 99 |
| Jalesar Road | : 857 | Achara- | 111 |
| Hatras Road | 867 | Maihar | 124 |
| ALIGARH (JUNCTION WITH THE | 001 | Andara | 133 |
| O. AND R. RAILWAY) | 876 | Jokhie | 149 161 |
| Semns | 889 | Katni | 101 |
| Khurja | <u>1</u> 903 | Slimanabad Road | 172 |
| Chola (Bulandshahar Road) - | .912 | Sihora Road | 205 |
| Sikandarabad | 920 | Deðri | 218 |
| Dadri | 931 | JABALPUR (JUNCTION WITH | 410 |
| GHAZIABAD (JUNCTION WITH S., | | THE G. I. P. RAILWAY) | 229 |
| P. AND D. RAILWAY) | 942 | | 000 |
| DELHI | 954 | h i h i h i h i h i h i h i h i h i h i | |
| | | $N = \frac{1}{2}$ | Distance |
| LOOP LINE STATIONS. | | EASTERN BENGAL RAILWAY. | from Calcutta. |
| | | $\left[\frac{1}{2},$ | |
| Kann (Junction) | 75 | CALCUTTA | 0 |
| Gushkara | 87 | Chitpur (Branch) | 23 |
| Bedia | 94 ' | Dam-Dam | $4\frac{1}{4}$ |
| Bhalpur | 99 | Belgharia | ° 7 |
| Ahmudpur | 111 | Sodpar | 9 3 |
| Synthia | 119 | Kharda | 111 |
| Malarpur | 129 13 6 | Titagar PADDACEDTIN | $12\frac{1}{2}$ |
| Rampur Hau | 190 | BARRACKPUR | 14 |
| Nalhati (Junction with the Nalhati | 145 | Ichapár | 163 |
| State Railway) Muraroi | 140 155 | Samnagar | 181 |
| Rajgaon | 162 | KANCHRAPARA | 23 <u>1</u> |
| Pakur | 169 | Madanpur | 28 33 |
| Bijapur | 177 | Chagda (for Jessor) | |
| Bahawa | 185 | Rabaghat 11 | - 451 |
| Tinpahar (Junction) | 195 | Aranghata | 51 |
| Raymahal (Branch) | 202 . | Bagula (for Krishnagar) - | 571 |
| Maharajpur | 210 | KISANGANJ | 65 |
| SAHIBGANJ | 219 | Ramnagar - | 74 |
| Pirpointi | 233 | Jayrampur - | 7 7 |
| Colgong | 245 | Chuadanga - | . 83 5 |
| Ghogha | 252 | Munshiganj | 89 |
| Bhagalpur | 265 | Alamdanga · · · · - · | 93] |
| Sultanganj | 280 291 | Halsa | <u>981</u> |
| Bariarpur | AUL I | Paroda | 102 |
| • | | Kushtia (Branch) | |
| Distance | | Kumarkhali | 112 117 |
| piâ | l . | Koksa - | 1214 |
| Chord * | р <u>-</u> * | Pangsa {- | 121 3 1291 |
| | | Belgachi | 1234 |
| Miles. | ÷. | Rajbari | |
| JAMALPUR (JUNCTION) 291 | 297 | GÖALANDU | 1514 |
| Monghir (Branch) - 297 | 303 | | ••• ••• |
| Dararu 284 | 304 | Na an Britan an A∦ara N | |
| Kajra 273 | 315 | OUDH AND ROHILKHAND | Distance from |
| | · • | RAILWAY. | Lucknow. |
| · · · · · | Distance | | |
| JABALPUR LINE. | from | LUCKNOW. (towards Moradapad) - | 0 |
| CADALIUK LINE. | Allahabad, | Alamnagar ((| 4 |
| ALLAHABAD - | | Kakori | 9 |
| Naini (Junction with the Main | 0 | Malihabad - | 15 |
| Line) - | 5 | Rahimabad - | 23 |
| Juera - | 5 15 | Sandila - Balamay | 30 43 |
| Shinrajpur - | 29 | Baghauli | 43 |
| | | u ∧/=uuuu ¬ (" | |

1. INDIA.-GUARANTEED RAILWAYS-continued.

LIST OF STATIONS—continued.

| Names. | Miles. | Names. | Miles |
|--|------------------|---|----------------|
| | Distance | | Distan |
| OUDH AND BOHILKHAND RAILWAYcontinued. | from Lucknow. | OUDH AND ROHILKHAND RAILWAY—continued. | from Luckno |
| IARDOI | 63 | Jelalganj | 174 |
| handpur | 74 | Phulpur | . 18 |
| Luji | 83 | Babatpur | 18 |
| Kahelia | 92 98 | Shiupur Benares (Cantonment) | 19 |
| HAHJAHANPUR | 102 | Detailes (Cantonnenc) | 10. |
| Filhar | 114 | SIND, PUNJAB, AND DELHI | |
| Airanpur Katra | 120 | RAILWAY. | Distar |
| atebganj | 124 | PUNJAB AND DELHI SECTION. | fron |
| faridpur | 134 146 | FUNJAB AND DELHI SECTION. | Delt |
| Lucknow - ' -) | 0 | DELHI | |
| Harauni - Lucknow | 14 | GHAZIABAD (JUNCTION WITH | _ |
| Kusumbhi - and | 21 | THE E.I. RAILWAY) | 1 |
| Ajgain - Cawnpore | 24 | •Begamabad | 2 |
| Unao Branch. | 34 | Meerut City MEERUT CANTONMENT - | 4 |
| Cawnpore - J | 156 | Khatauli | e |
| Aonla | 163 | MUZAFFARNAGAR | |
| Mahmudpur | 171 | Deoband | |
| Dabtara | 174 | SAHARANPUR | |
| Asafpur | 181 | Jagadhri - | i |
| HANDAUSI (JUNCTION WITH THE ALIGARH BRANCH) | 190 | Barara | i i |
| Bilari | 202 | UMBALLA CANTONMENT - | 1 |
| Kandarki | 206 | Umballa City | |
| MORADABAD | 217 | Rajpura | [•,•] |
| Chandausi Junction | · 190 | Sarhind | 2 |
| Bijhot | 200 209 | Sanshwal | |
| Danhari Alimonh | 203 | LUDHIANA | 2 |
| D talde Angaru | 220 | Phillur | . 2 |
| Dubhai | 224 | Phagwara - | |
| Atrauli Road - | 233 | JULLUNDUR CANTONMENT - Jullundur City | 2 |
| Hardwaganj - | 242 250 | Kartarpur | 2 |
| Aligarh J Lucknow (towards Benares) | 0 | East Bank (Beas) | 2 |
| Malhaur | 7 | Beas | 2 |
| Jagor | 10 | Jandela | 1 3 |
| NAWABGANJ (JUNCTION WITH | | Khasa | 3 |
| THE BAHRAMGHAT BRANCH) - | | Atari | 1 8 |
| Damudapur Bindaura - Rehmmahèt | 28 | Jallo | 3 |
| Bindaura - Ramnagar - Bahramghàt Branch. | 34 | Meean Meer, East | 3 |
| Mahadeo - | 37 39 | LAHORE | 8 |
| Bahramghdt J | 23 | Khana - | 3 |
| Resauli | 29 | Raewind | 8 |
| Safdarganj Dariabad | 41 | Changa Manga | |
| Makdumpur | 46 | Wan Radharam | 4 |
| Radauli - | 55 61 | Okara MONTGOMERY | 4 |
| Baragaon (Mastafabad) - | 70 | Harappa | 4 |
| Sohawal | 79 | Chichawatni | 4 |
| FYZABAD - , - • • Ajodhya | . 83 | Channu - | |
| Darsinnagar - | 84 | Kacha Khuh | 5 |
| Belar Ghât - | . 91 | Khanewal Tatipur - | 5 |
| Tandauli · | 98 101 | MOOLTAN | 5 |
| Gosainganj - | 101 | Sher Shah | 6 |
| Camirpur - | . 115 | · | 1 |
| Akbarpur | . 127 | - | Dis |
| Bilwai | 136 | SIND SECTION. | fr Kia |
| Shahganj | - 143 - 149 | BIRD BROKEN, | _ |
| Kheta čarai | - 149 | Kiamari | |
| Marai | 163 | KARACHI (MCLEOD STATION) | |
| Jaunpur (City) Jaunpur (Civil) | 167 | Karachi (Frere Station) | 1 |
| Janubar (Arth) | | H · | |

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1. INDIA.-GUARANTEED RAILWAYS-continued.

LIST OF STATIONS—continued.

| Names. | Miles. | Names. | Miles. |
|------------------------------|----------------------|-----------------------------------|------------------|
| SIND, PUNJAB, AND DELHI | | GREAT INDIAN PENINSULA | 1 |
| RAILWAY—cont. | | BATTWAY | l de la fi |
| | Distance | BAILWAY-cont. | Distanc |
| Start Constant and | from | Norman 12 | * from |
| SIND SECTION—cont. | Kiamari. | NORTH-EASTEEN DIVISION-cont. | Bomba |
| Landi + | 183 | Timarni | 404 |
| Dorbaji | 38 | Pagiliál | 424 |
| JUNGSHIE | 57 | Seoni | - 433 |
| 7 | | | 442 |
| Jinpir | 76 | Dharam Kandi | - 447- |
| Maiting | 891 | Dularia - | 455 |
| Bolari | 101 | Itársi (Hoshangáhád) | 463 |
| KOTRI | ∖ 109 <u>‡</u> | Rámpur Bagra Semri | 469 |
| | | Bagra | 479 |
| GREAT INDIAN PENINSULA | | | 487 |
| BAILWAY. | Distance | SOHAGPUR - | 493 |
| | from | Piparia - | 505 |
| NORTH-EASTERN DIVISION. | Bombay. | Bankheri | 517 |
| | | Bábai | 527 |
| BOMBAY | 0 | Gádarwára (Junction of the Mopani | 0-13 |
| Bicala | 21 | Branch) | 536 |
| Chinchpokli | 31 | Boháni | |
| Parel Station | 4 | Kareli | 544 |
| Dádar | 55 | Narsinghpur - | 554 |
| Sion | 8 | | 564 |
| | | Karak Bel | 573- |
| Xarla | 91 | Chhindwára | . 583- |
| Bhándup | 163 | Shahpura | 598 |
| ſhán s - | 201 | Mirganj | 606 |
| | 26 <u>1</u> | JABALPUR (JUNCTION WITH THE | |
| KALIAN JUNCTION (JUNCTION OF | 1 1 1 | E.I. RAILWAY) | 616 |
| THE NORTH-EAST LINE WITH THE | 6 C - 2 - 60 | | |
| South East Line) | 331 | | |
| litwála * - | 40 | | Distance |
| Wásind | 491 | NAGFUR BRANCH. | from |
| Sháhapur | $53\frac{1}{4}$ | l• | Bombay. |
| Atgáon | 59 | BHUSAWAL JUNCTION - | 276 |
| Chardi , | 66 <u>3</u> | Warangáon - | 276 |
| ASARA | 75 | Nárgáon - | |
| GATPURI | 85 | Khámkhed | 295 |
| Shoti | 90 <u>3</u> | Malkápur - | 3011 |
| Bailgáon | 100 1 | Biswa Bridge | 3071 |
| | $100\frac{1}{2}$ | l Némiura | 315 |
| NASLK ROAD | | | 324 |
| | 1164 | Jalamb (Junction) - | 332 |
| herwádi ' | 128 | [Khámgáon] | 1.1.1 |
| Viphád | 136 | Khámgáon - State | 340 |
| ásalgáon | | [Railway] | |
| lanmár ! | 1614 | SHEOGAON | 3394 |
| ANDGAON | 1775 | Páras | 350 1 |
| Naydongri « | . 190∔ . | Akola | 362 |
| HALISGAON | $203\frac{1}{2}$ | Borgnon - | 374 |
| ajgáon | 215 | Martizapur - | 386 |
| áchora – – – – – | 2314 | Máuná | 3931 |
| Iáheji | 240 | Karam - | 401 |
| Ihasáwad | 248 | BADNERA (JUNCTION) | 412 |
| hirsoli | 254 | (Amráoti) | - |
| algáon | 261 | | 410 |
| Vasirábád | 268 | | 418 |
| BHUSAWAL JUNCTION (JUNCTION | . 2007 | Chánday J | |
| with the NAGPUR BRANCH) - | 070 | Chándur - | 430 |
| 1 | 276 | Dhámangáon - | - 140 |
| | 2857 | Palgaon • | $452\frac{1}{2}$ |
| · · · · · · | $291\frac{1}{4}$ | Degáon | 4621 |
| Ráwer | $297\frac{1}{2}$ | Wardha (Junction of the Wardha | · |
| Burhanpore – – – – | 310 | Valley State Railway) | 471 |
| 'hándni | 322 | Páunar - | 4793 |
| dandsen | 330 (| Sindi . | 490 |
| Dongargáon | 338 1 , ' | Bori | 503 |
| KHANDWA | $352\frac{3}{2}$ | NAGPUR | 5192 |
| Jawar | 362 | | 01.02 |
| Bir - | 374 | SOUTH-EASTERN DIVISION. | • • |
| Harsad | 385} | WVULL-MAPILINA DIVISION. | 1 . |
| Kirkián – | 8961 | KATTAN (T- | |
| Bhiringi | | KALIAN (JUNCTION) - | 33 |
| HARDA | | Badlápur | 42 |
| | 1 TIO÷ | 11 11 12 13 1 | - 53 |

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2

1. INDIA. -- GUARANTEED RAILWAYS-continued.

LIST OF STATIONS-continued.

· · ·

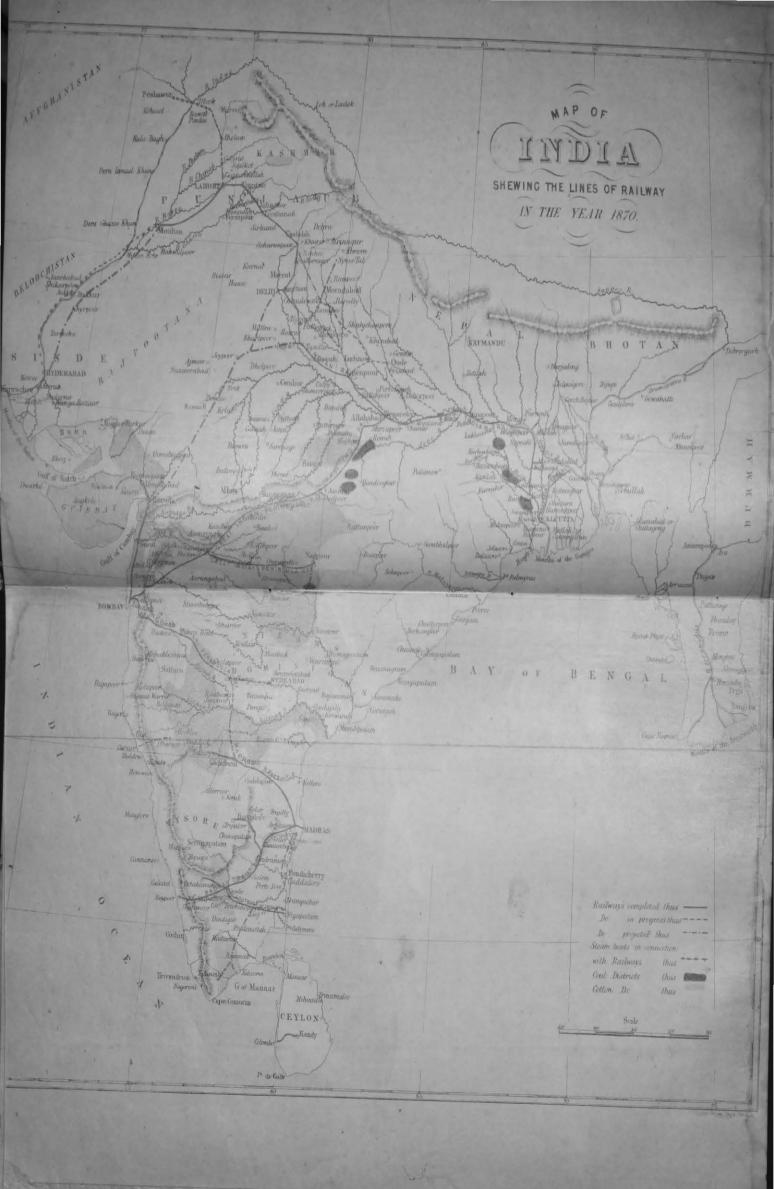
| Lis | T OF STA | TIONS—continued. | |
|--|--|---------------------------------|--|
| Names.] | Miles. | Names. | Miles. |
| GREAT INDIAN PENINSULA | | | Distance |
| RAILWAY-cont. | Distance from | BOMBAY, BARODA, AND CENTRAL | from Bombay |
| SOUTH-EASTERN DIVISION-cont. | Bombay. | INDIA RAILWAY-oont. | (Colaba). |
| KARJAT | 62 | Daman Road | 108] |
| Khandala | 77 | Udwara | 1143 |
| LONAULI | 79] . 89] - | Pardi | 118 119 } |
| Kharkala | . 89 5 - 98 | Bulsar | 1241 |
| Chinchwad | 109 | Dungri | 130 |
| Kirkee | $115\frac{1}{2}$ 119 | Bilimora Amalsad | 135 3 139 |
| POONA | 119 129 1 | Nausari | 1487 |
| Uruli | 137 | Maroli | 154 |
| Kedgáon – – – – | 152 1 159 | Surar | 158 167 |
| Pátas Dhond | 165 | Amroli | 1691 |
| DIKSAL AND BHIGWAN - | 183 | Sayan * | 1751 |
| Pamalwári | 195 • | | 181 <u>4</u> 1914 |
| Jehar Kim | $212\frac{1}{2}$ $222\frac{1}{2}$ | Panoli | . 198 |
| BARSI ROAD | 283 | BROACH | $203\frac{1}{2}$ |
| Marhi | 243 | Chamargam | 211 219] |
| Angar | 252 262 1 | Palej | 2:29 |
| Mohol | 272 | Karwan] His Highness the Gaek- | $237\frac{3}{4}$ |
| SHOLAPUR | | Mandala war of Baroda's Rail- | $242\frac{1}{4}$ 249 |
| Hudgi - | 2913 3043 | Dubhoe way. | 236 |
| Karabgáon | 322 | BARODA | 2474 |
| Gadar | $-336\frac{1}{4}$ | Bajwa | 252 2593 |
| Kulbarga | - 352 <u>¥</u> - 369 ‡ | Wasad Nauli | 2651 |
| SHAHABAD Wadi (Junction with the Nizam' | - 0004 B | Anand (Junction-Dakor Branch) - | 269 5 |
| 4 State Railway) - | - 370‡ | Bhalaj | 2763 |
| Nalwar - | - 384 - 3993 | Dakor | 288 |
| Yádagiri | - 414 | Boriavi | |
| KRISHNA . | - 426 ³ - 432 1 | | 291 |
| Chikságar RAICHUR (JUNCTION WITH THI | | Barajri (- | 298 |
| MADRAS RAILWAY) | - <u>442</u> | AHMEDABAD | 309 312 |
| | Distance | Sabarmati | 819 |
| BOMBAY, BARODA, AND CENTRA | | Sanand | 327 |
| INDIA RAILWAY. | (Colaba) | Gharori | 834 342 |
| | r | Jakhwara VIRAMGAM (JUNCTION) | . 349 |
| Colaba Church Gate Street | 1 11 | Jhond | $\begin{cases} 358 \\ 367 \end{cases}$ |
| Colaba Church Gate Street | $\{ 2 \}$ | Jhond Patri Kharayhora | 372 |
| | $2\frac{3}{4}$ | | . 359 |
| Grant Rond' | - 5 | Lilapur Road | . 368 . 375 |
| Parel | - 6 | Lakhtar WADHWAN | . 389 |
| Dadar - | - 7 <u>3</u> - 94 | | |
| Mahim Bandora | - 10 | | 1. |
| Andheri - | - 15 - 18 | DUDIE HUDIAN BARMARY | Distan |
| Gorgaun | - 22 | NAGAPATAM TO TUTICORIN. | from |
| Bhayndar | - 28 | | Nago |
| Bassein Road - | - 33 - 38 | NAGAPATAM - | - |
| Virar Saphala | - 47 | Siekli - | |
| Palghar - | - 57 - 64 | | • [|
| Boisar - | - 04 | Kalikeri | 1 |
| Wangaon Dabanu Road | - 78 | Kordachari - | - |
| Gholwad | - 85 - 90 | | - |
| Wenji - | - 94 | TANJOR - | - 1 |
| Sanjan Bhilad | - 101 | | • |
| The fitters is a second s | • | H 2 | |

INDIA.-GUARANTEED RAILWAYS-continued.

LIST OF STATIONS—continued.

20 g

| Names. | Miles. | Names. | Miles. |
|-------------------------------|--------------------------------|--|----------------|
| OUTH INDIAN RAILWAY-cont. | Distunce | MADRAS RAILWAY-cons. | Distanc |
| NAGAPATIM TO TUTICORIN-cont. | from | SOUTH-WEST LINE-cont. | L'om Madrai |
| NAGAPATASE TO LUTICORIN-CONC. | Nagapatam. | | 154 |
| udalor | 59 | Capam Colar Road Malur Cadjudi Banagla | - 154 175 |
| liruvembor | 73 | Malur | 192 |
| RICHINOPOLI | 79 1 | Cadjudi - EA | 204 |
| richinopoli Fort | 81 <u>4</u> 904 | Dunywor | 216 |
| olatur Ianaparai | 101 | Tripator | 136 |
| aiyampatti – – – | 1101 | Morapur | 451 166 |
| iyalur | 121 | Mallapuram | 100 |
| adamadura | 1263 | Shervaroy Hills | 192 |
| INDIGAL) | 1364 | SALEM (Suramongalam) | 206 |
| mayanaikanur | 150 | McD.'s Choultry | 219 |
| holavandan ADURA | 162^{-1} $175\frac{1}{2}$ | Sankhagiri Drug | 230 |
| eruparangandram | 1794 | EROD (JUNCTION) | 243 |
| erumangalan | 1854 | Watkali | 252 |
| irdapatti | 202 | Avinashi Road | 266 275 |
| atur | $218\frac{3}{4}$ | Somanur | 286 |
| ovilpatti | 2314 | Pothanur Junction | 301 |
| adambur | 2453 9553 | Combator [F-5] | 305 |
| UTICORIN | 2551 273 3 | Tudialor | 311 |
| | ÷104 | Tudialor Karamaday Metapoliem | 、 323 327 |
| |] | Madikari | 308 |
| TRICHINOPOLI TO EROD. | | Waliar | 316 |
| | | Conjecod | 323 |
| richinopoli Fart | 81 <u>3</u> | PALGHAT | 332 |
| lamanor | 91 102 | Parley | 337 |
| alapeta | 1025 | Lackadi Wutapoliam | 347 351 |
| atalai | 1151 | Shoranur | 359 |
| ARUR | 126 1 | Pattambi | 366 |
| ugalor | $135\frac{3}{4}$ | Cutipuram | 378 |
| adamudi | $143\frac{1}{2}$ | TIRUR | 387 |
| asur | 1554 1684 | Tanur | 392 |
| NOD | * | Perpengadi | 397 406 |
| | Distance from | | 406 |
| ARCONAM TO CONJEVERAM. | Arconam, | NORTH-WEST LINE. | ·. |
| RCONAM | <u> </u> | ARCONAN Tirutani | 42 |
| alur , - ' | 9 | Nageri | 50 59 |
| hengleroyen's Choultry | 11 | Patur | 69 |
| ONJEVERAM | 19 . | Pudi | 78 |
| | | TIRUPETI | 83 |
| MADRAS RAILWAY. | 1 | Redipalli | 109 121 |
| • | Distance from | Rajampet | 121 |
| South-West Line. | Madras. | Nandalor | . 136 |
| IADRAŠ | | Woutimeta | 147 |
| erambor | 0 | KALAPA | 161 |
| | 13 | Camalapur Yeraguntla | 176 185 |
| inanor | 18 | Mudanur | 195 |
| rivallor | 26 | Kondipuram - | 210 |
| adambatur | 291 | Tadputri | : 227 |
| hinamapit | 36 | Royalcheru | 242 |
| NilianAM (Junction) Ráwogivar | 42 1 554 | GÚTY | 257 |
| Burh. | 65 | Gundakal Virapur | 273 |
| Chándươ | 73 | Belari Branch | 291 305 |
| Mandwa | 801 | Nancherla | 281 |
| Dongargáva | , 88 <u>1</u> | Auspri | 295 |
| KHAND Jawar | 954 | Adoni | -::: 307 |
| Bir | | Kosgi Tunyabhadra River (South Bank) | 825 |
| Harsa adi | 1223 | Matmari | 338 339 |
| Kirkian ET (JUNCTION) | 132 | RAICHUR | 350 |
| Bhiringi | 1 | N . | |



2. INDIA.-STATE RAILWAYS.

PROVISIONAL LIST OF STATIONS.

Corrected to 1st February 1876.

| · · · · | Names. | Distance from Termini. | Names. | Distance from Termini. |
|---|---------------------------|---|--|----------------------------------|
| ALCUTTA | AND SOUTH-EASTERN | | • INDUS VALLEY STATE | |
| ST | ATE RAILWAY. | | RAILWAY-cont. | |
| 1 | • | Miles. | | Miles. |
| Calcutta | | ·· - | Bágarji | - |
| Baliganj | | 3 | Ruk | |
| Jadupur 👌 | | 5 | Madeji Road | |
| Garia | | 8 | Naundero | |
| Sonapur | , ser le se se | 10 | Lárkána | |
| Chapahati | | 15 | Bákráni Boad | 320 332 |
| Basra | · | 20 | Bádeh | 343 |
| Canning | | 28 | Sita Road | 385 |
| DINIA | 3 NORTHERN STATE | | Phulji " | 367 |
| FONDAT | RAILWAY. | | Dádú | 877 |
| | ANGLASS IN CL. 1 | 1 | Bhán | 389 |
| Lahore | | . | Sehwan | 402 |
| Shahdara . | | . 5 | Laki | 414 |
| Muridki | | - 17 | Amri | 422 |
| Kámoke | | 29 | Sann | 435 |
| Gujránwále | | - 413 | Májhand | - |
| Ghakkhar | | - 51] | Gopang | 472 |
| Wazirabad | | - 62 | Unarpur | • 484 |
| Gujrat | | - 71 | Petaro | 498 |
| Lála Musa | | - 81 | Kotri | |
| Khárián | | - 91 | DELHI DISTRICT, RAJPUTANA | |
| Jhelum | | - 103 | STATE BAILWAY. | |
| Dina . | | - 115 | DIAID MADWAL | 1 |
| Sohawa | | - 128] - 140] | Delhi | - 1 |
| Gujar Khar | | - 1405 | Pálam | 11 |
| Mandra Rowat | | - 159 | Keri (for Gurgaon) | 19 |
| Rowat Rawul Pi | ndee | - 105 | Garhi Harsaru | 25 |
| THU WUL X | Auce | 1 | Sultanpur | 29 |
| INDU | IS VALLEY STATE | | Farrukhnagar | 32 |
| · | RAILWAY. | | Játaoli - | 44 |
| Υ. | ۹. | | Khalilpur | 51 |
| Mooltan | | · | Rewari | 60 |
| Sher-Shah | | - 6] | Báwal | 68 |
| Buch - | المحاجبا فالمتحاصيتين وسن | 12- | Ajeráka Harsauli | 76 |
| Shujabad | • | $- 24\frac{1}{2}$ - 39 | Khirtal | 80 |
| Gilawála | | | Barwára | 88 |
| Lodhrán | • • • · | - 53] - 63] | Ulwar | 97 |
| Baháwalpu Samasata | | - 701 | Málakheri - | 109 |
| Mubárakpu | • - · | 83 | Rájgarh | 119 |
| Ahmadpur | ···· | - 93 | Baswa | 127 |
| Chani di G | | - 107 | Bandikui Junction | 104 |
| Chaudri | | - [•] 119 3 | A OF A DIGENION DA THURANA | 1 |
| Firoza | - · · | - 132 | AGRA DISTRICT, RAJPUTANA | 1 |
| | _ · _ • | - 146 | STATE RAILWAY. | |
| Khanpur | - | - 160 | A | - |
| Khanpur Katsamba | | - 173 | Agra (Fort) Agra (Cantonment) | 1 1 |
| Khanpur | | - 186 | Bichpuri | 6 |
| Khanpur Katsamba | | | a Dicubara ' | 16 |
| Khanpur Katsamba Naushahra Sádikabad Walhar | | • | | |
| Khanpur Katsamba Naushahrs Sádikabad Walhar Reti | | 210 | Achnera - | 25 |
| Khanpur Katsamba Naushahra Sádikabad Walhar Beti Khairpur | | - <u>210</u> - <u>219</u> | Achnera - Ikran | 25 3,3 |
| Khanpur Katsamba Naushahra Sádikabad Walhar Beti Khairpur Mirpur | | - 210 - 219 - 228 | Achnera Ikran Bhartpur | 25 3,3 40 |
| Khanpur Katsamba Naushahra Sádikabad Walhar Beti Khairpur Mirpur Sarhad | | - 210 - 219 - 228 - 235 | Achnera Ikran Bhartpur Helak | 25 3,3 40 51 |
| Khanpur Katsamba Naushahra Sádikabad Walhar Beti Khairpur Mirpur Sarhad Ghotki | | - 210 - 219 - 228 - 235 - 242 | Achnera Ikran Bhartpur Helak Nadbai | 25 33 40 51 61 |
| Khanpur Katsamba Naushahra Sádikabad Walhar Reti Khairpur Mirpur Sarhad Ghotki Mahesar | | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Achnera Ikran Bhartpur Helak Nadbai Kherli Mandawar | 25 33 40 51 61 73 |
| Khanpur Katsamba Naushahra Sádikabad Walhar Beti Khairpur Mirpur Sarhad Ghotki | | - 210 - 219 - 228 - 235 - 242 | Achnera Ikran Bhartpùr Helak Nadbai Kherli Mandawar Biwai | 25 33 40 51 61 73 |

N.B.-Changing stations are shown in antique type, and branch stations in italics.

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2. INDIA.-STATE RAILWAYS-continued.

PROVISIONAL LIST OF STATIONS continued.

| Names. | Distance from Termini |
|---|---|
| | Ter man |
| and the second se | |
| | |
| HOLKAR STATE RAILWAY, | 1 |
| | Miles, |
| hundwa - | |
| janti | 7 |
| tur heri | 18 |
| nawad | 26 |
| ortakka* | 33 |
| arwai | 56 |
| nlwara | 39 |
| horal Chanka | 49] |
| ala Khan | 68 |
| lion | 72 |
| | 79 |
| idore | 851 |
| | |
| NEEMUCH STATE RAILWAY. | 1 |
| | e de la composición d Composición de la composición de la comp |
| idore | |
| iloda | 12 |
| atchabad Junction | 23 |
| jcin umbal River | 85 |
| umbai River | 33 |
| mija – – – – – – – – – – – – – – – – – – – | 43 53 |
| nija – – – – – – – – – – – – – – – – – – – | 62 |
| atiam | ; 62 |
| | 80 |
| ara | 924 |
| dar | 1021 |
| llauda | 114 |
| andesar 2 | 1223 |
| plia | 135 |
| aldu | 1423 |
| eemuch - | 154 |
| wugam | 164 ‡ |
| mbhera - | 171 |
| tkanda | 179 1 |
| itor - | 1904 |
| ingiar | 200 |
| unirgarh | 211 |
| ulwara - | 2221 |
| impura, | 2323 |
| ra Raira Ipaili | 242 1 558 |
| kranî – – – – – – – – – | - 55 5 - 2644 |
| Arani | $204\frac{1}{2}$ |
| asirabad | 200 |
| | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
| BAMGAON STATE RAILWAY. | |
| | e pe per |
| lamb | - <u>-</u> |
| lamgaon + | |
| A MD A ORT OF A HUR DA TTTT A | ेक्ट जेन |
| AMRAOTI STATE BAILWAY. | |
| idnera | |
| nraoti - | 51 |
| a sa ina sebu 🗣 ditebuh titan 🚛 | |
| NIZAM'S STATE RAILWAY. | ar da. Ara |
| adi Junction - | ا مهمد ه ا م |
| hitapur | مشیون کرد ک ۵۵ |
| | 5 9 |
| lapur | 23 |
| Tahan a | 38 48 |
| | 48 57 |
| | 57 |
| | 87 |
| ngampalli | 100 |
| vderahad | 115 |
| gunderahad - | 121 |
| | andur Dharur Dharur Attapur Attapur Ayderabad Secunderabad |

New Martin and the second second second second * Closed as a station for the present. N.B.-Changing stations are shown in a sique type, and branch stations in italics.

2. INDIA.-STATE RAILWAYS-continued.

PROVISIONAL LIST OF STATIONS-continued.

| Naules. | Distance from Termini. | Names. | Distance from Termini. |
|--|--------------------------------------|--|------------------------------|
| ······································ | | | |
| PATRI STATE RAILWAY. | Miles. | RANGOON AND IRRAWADDY VALLEY RAILWAY. | • |
| Viramgaum | | | Miles. |
| Ihand Road | 77 | Pungundong | |
| Patri | 17 | Rangoon | $\frac{2}{5}$ |
| Lura Gora | 22 <u>1</u> | Thanine | a gt |
| | 4 | Hlaugau | 9 1 194 |
| <u> </u> | 1 · · · · · · · · · | Engdun | $29\frac{1}{2}$ |
| NALHATI STATE RAILWAY. | t an e | Gyobyo Ok-kan | 44 |
| Valhati | | Thongzai | $56\frac{1}{9}$ 66 |
| l'akipur | 4 | Lappadan | 77 |
| Nowada | . 8 | Menghia | 92 |
| Bokhora | $12\frac{1}{4}$ | Otpho | 102 |
| Sahapur | 17• | Zigoug Poungday | 116 $129\frac{1}{2}$ |
| Azimganj | $27\frac{1}{2}$ | Pouktan | 140 |
| | - 4 | Sinmesway | 149 |
| | • | Prome | 161 |
| WARDHA VALLEY STATE RAILWAY. | • | * NORTHERN BENGAL STATE RAILWAY. | |
| Wardha | | Sara | ! |
| Sonagaon | 11 | Gopalpur | ļ — |
| Hinganghât | 19 | Malanchi | - 24 |
| Nagri | 31 <u>1</u> 45 | Nator | • 24 |
| Warora (Passenger) Ditto (Coal) | 45 | Atrai | 39 |
| | 10 | Raninagar | 48 |
| | 1 | Sitapur | 1 |
| | | Chutiangram | 5 5 64 |
| KARWAR STATE RAILWAY. | | Nawabganj | 73 |
| Karwar | | Panchbibi | 79 |
| Kulgad | 175 | Hili · · | 85 |
| Hebul | 32 | Debpur | 95 |
| Ilawanguti | 43 <u>}</u> 55 | Parbailpur | 112 |
| Slimuni Iddagongi | 62 | Rangpur | 135 |
| Yellapur | 68 | Dinajpur | |
| Kirwhatti | 80 1 | Sidpur | 121 129 |
| Khulghatgi | 94 | Darwani | 139 |
| Misracota | 101 | Bagdogra | 1-46 ¹ |
| Sirgampi | | Chilahati | 156 |
| Anigheri | 130 | Haldibari | 173 |
| Gadak | 1441 | Jalpigori | 184 |
| | • | Shampur | |
| NAGPUR AND CHATTISGARH | | Bidarganj | . – |
| STATE RAILWAY. | | MYSORE STATE RAILWAY. | |
| Nagpur Cantonment | 31 | Bangalor | |
| "City | 81 | Bangalor Pété | 25 75 |
| Babdeo | | Kengéri Kambligad | 14 |
| Bhandara Road | 42 1 49 | Kambligod | 23 1 |
| l'aruswara | 001 | Closepété | 29 j |
| Firora Dandaignon | . 71] | Chinnapatam | 36 1 -481 |
| Kurwa | . 81 .j | Madora - | 58 |
| Komptha | 90 | Mandya Yellur | 651 |
| Karanja | $101\frac{1}{4}$ $121\frac{1}{4}$ | French Rocks - | 74 5 |
| Boreotola | $121\frac{1}{3}$ | Seringapatam - | 795 |
| Dongargarh '- | | Mysore - | - 88 |

* Sites for the stations on the branches have not yet been suggested. N.B.—Changing stations are shown in antique type, and branch stations in italics.

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58 2. INDIA.—STATE RAILWAYS—continued.

| Names. | Distance from Termini, | Naines, | Distance from Termini. |
|----------------------------------|------------------------------|---|--|
| TIRHUT STATE RAILWAY. Semuria | Miles. | TIRHUT STATE RAILWAY—cont. Not yet fixed Darbhangha # Haya Branch. Darbhangha Branch. Wini (for Pusa and Tajpur) - 1 Duli Rehna Muzaffarpur 1 | Miles, 44 51 58 43 52 60 68 |

PROVISIONAL LIST OF STATIONS—continued.

N.B.--Changing stations are shown in antique type, and branch stations in italics.

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