

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
UNSTARRED QUESTION NO. 602
ANSWERED ON 23.07.2021

ELECTRIFICATION OF RAIL LINES BY 2024

602 DR. L. HANUMANTHAI AH:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether Government plans to electrify all rail lines by 2024 and if so, the details thereof;
- (b) the length of the entire railway network in the country and the length that Government proposes to add during the next three years;
- (c) the details, including location and length of railway tracks that have already been electrified and that are yet to be electrified;
- (d) the estimated cost of electrifying all railway tracks by 2024; and
- (e) the current annual consumption of electricity by the Railways and the estimated consumption once all the tracks are electrified?

ANSWER

MINISTER OF RAILWAYS, COMMUNICATIONS AND
ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

(a) to (e) A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 602 BY DR. L. HANUMANTHAIHAH ANSWERED IN RAJYA SABHA ON 23.07.2021 REGARDING ELECTRIFICATION OF RAIL LINES BY 2024

(a) Yes, Sir. Indian Railways (IR) has decided to undertake electrification of Broad Gauge (BG) Railway lines in mission mode. Significant progress has already been made in this regard and IR is likely to electrify all BG rail lines by 2023-24.

(b) As on 01.04.2020, Total length of entire Indian railways network (all Gauges) is 67,956 Route kilometer.

As on 01.04.2021, 484 Railway projects of 51,165 km length, costing approx. ₹7.54 lakh crore are in different stages of planning/sanction/execution, out of which 10,638 km length has been commissioned and an expenditure of ₹2,13,815 crore has been incurred upto March, 2021.

These include:-

- (i) 187 New line projects of 21,037 km length, costing ₹4,04,986 crore, out of which commissioning of 2,621 km length has been achieved and expenditure of ₹1,05,591 crore has been incurred upto March, 2021.
- (ii) 46 Gauge Conversion projects of 6,213 km length, costing ₹53,171 crore, out of which commissioning of 3,587 km length has been achieved and expenditure of ₹22,184 crore has been incurred upto March, 2021.
- (iii) 251 Doubling projects of 23,915 km length, costing ₹2,96,186 crore, out of which commissioning of 4,430 km length has been achieved and expenditure of ₹86,041 crore has been incurred upto March, 2021.

Completion of a Railway project(s) depends on various factors like expeditious land acquisition by State Government, forest clearance by officials of forest department, shifting of infringing utilities, statutory clearances from various authorities, geological and topographical conditions of area, law and order situation in the area of project site, number of working months in a year for particular project site due to climatic conditions etc. and all these factors affect the completion time.

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(c) Zone-wise total BG Route kilometers (RKM), electrified BG RKM & balance BG RKM to be electrified as on 31.03.2021 is as under:-

SN	RAILWAY	Total Broad Gauge (BG) Route Km	Electrified BG Route Km	Balance BG Route Km to be electrified
1	Central	3,853	3,336	517
2	East Coast	2,800	2,791	9
3	East central	4,008	3,540	468
4	Eastern	2,820	2,490	330
5	North Central	3,222	2,707	515
6	North Eastern	3,102	2,299	803
7	Northeast Frontier	4,152	652	3,500
8	Northern	7,062	5,512	1,550
9	North Western	5,248	2,186	3,062
10	South Central	6,206	4,145	2,061
11	South East Central	2,348	2,120	228
12	South Eastern	2,713	2,661	52
13	Southern	4,914	3,570	1,344
14	South Western	3,578	1,208	2,370
15	West Central	3,011	3,011	0
16	Western	4,885	3,183	1,702
17	Kolkata Metro	27	27	0
18	Konkan	740	443	297
	TOTAL	64,689	45,881	18,808

- (d) About ₹ 21,000 crores are estimated to be incurred on electrification of balance Broad Gauge routes of Indian Railways.
- (e) Indian Railways annual consumption of Electricity for traction purpose is about 18.41 Billion Units during 2019-20 and 14.1 Billion Units during 2020-21. The estimated electricity consumption after complete electrification of Railway tracks shall be 30.13 Billion Units.
