

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION NO. 1142
TO BE ANSWERED ON 26.07.2023**

NET ZERO CARBON EMITTER

**†1142. SHRI PARBATBHAI SAVABHAI PATEL:
SHRI PRADEEP KUMAR SINGH:**

Will the Minister of RAILWAYS be pleased to state:

- (a) the details of the States in which the Railways has completed 100% electrification, State-wise;**
- (b) whether 100% electrification of Bihar and Gujarat has also been completed, if not, the reasons therefor;**
- (c) whether Railways is heading towards becoming a “Net Zero Carbon Emitter” before 2030; and**
- (d) if so, the schemes that are being implemented to achieve the same?**

ANSWER

**MINISTER OF RAILWAYS, COMMUNICATIONS AND
ELECTRONICS & INFORMATION TECHNOLOGY**

(SHRI ASHWINI VAISHNAW)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1142 BY SHRI PARBATBHAI SAVABHAI PATEL AND SHRI PRADEEP KUMAR SINGH TO BE ANSWERED IN LOK SABHA ON 26.07.2023 REGARDING NET ZERO CARBON EMITTER

(a) Existing Broad Gauge network falling in the following State/Union Territory have been 100% electrified:

SN	State/Union Territory	SN	State/Union Territory
1	Chandigarh	8	Madhya Pradesh
2	Chhattisgarh	9	Meghalaya
3	Delhi	10	Odisha
4	Haryana	11	Puducherry
5	Himachal Pradesh	12	Telangana
6	J&K	13	Uttar Pradesh
7	Jharkhand	14	Uttarakhand

(b) Electrification of 3,614 Route kilometer (RKM) out of 3,710 RKM and 3,435 RKM out of 3,862 RKM have been completed in the State of Bihar and Gujarat respectively.

(c) & (d) Indian Railways (IR) has aimed to become Net Zero Carbon Emitter by 2030. IR has taken a number of initiatives to reduce its carbon emissions which include use of energy efficient technologies like completely switching over to production of three phase electric locomotives with regenerative features, use of head on generation (HOG) technology, use of LED lights in buildings and coaches, star rated appliances, water conservation and its management and afforestation. Further, the key strategies that have been identified for achieving the Net Zero Carbon emission target are procurement of power through renewable energy sources; shifting from diesel to electric traction; promotion of energy efficiency; and afforestation.
