

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION NO. 242
TO BE ANSWERED ON 27.11.2024**

ELECTRIFICATION OF RAILWAY BROAD GAUGE NETWORK

242. DR. HEMANT VISHNU SAVARA:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Government has decided to go for 100% electrification of its Broad Gauge network;**
- (b) if so, the details thereof;**
- (c) the details of the electrification of Broad Gauge network in the country the, till date;**
- (d) whether operating costs go down after 100% electrification of Broad Gauge network and if so, the details thereof; and**
- (e) whether uninterrupted power supply will be assured on all routes, if power supply fails?**

ANSWER

**MINISTER OF RAILWAYS, INFORMATION & BROADCASTING 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. 242 BY DR. HEMANT VISHNU SAVARA TO BE ANSWERED IN LOK SABHA ON 27.11.2024 REGARDING ELECTRIFICATION OF RAILWAY BROAD GAUGE NETWORK

(a) to (e) Indian Railways (IR) has taken up electrification of Broad Gauge (BG) Railway lines in a Mission mode. Since 2014-15, Indian Railways has completed electrification of about 45,200 Route Km on Broad gauge (BG) network. There is substantial jump in electrification from about 1.42 Km/day during 2004-14 to about 19.7 Km/day during 2023-24.

At present, about 97% of the total BG network of the Indian Railways has been electrified.

Electric traction is more environment friendly and also about 70% more economical than diesel traction.

Reliable power supply is crucial for electric train operations. The system incorporates multiple safeguards, including connections to the national grid through state and central transmission utilities. Redundant power sources are available at both grid substations and traction substations to ensure uninterrupted services.
