

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 143**  
**ANSWERED ON 02.02.2024**

**TRAINS EQUIPPED WITH KAVACH**

143 SHRI JAVED ALI KHAN:

Will the Minister of RAILWAYS be pleased to state:

- (a) the details of the railway routes/ trains which have been equipped with anti collision device, Kavach;
- (b) the details of routes/trains which are targeted to be equipped with anti collision device during 2023-24 and 2024-25 along with the details of private companies with whom MoU for the same have been signed, so far, route/train-wise; and
- (c) the details of fund allocated, released and utilised for the same during 2023-24 till date, zone-wise?

**ANSWER**

MINISTER OF RAILWAYS, COMMUNICATIONS AND  
ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

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

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**STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 143 BY SHRI JAVED ALI KHAN ANSWERED IN RAJYA SABHA ON 02.02.2024 REGARDING TRAINS EQUIPPED WITH KAVACH.**

(a) to (c):

1. Kavach is an indigenously developed Automatic Train Protection (ATP) system. Kavach is a highly technology intensive system, which requires safety certification of highest order.
2. Kavach was adopted as a National ATP system in July 2020.
3. Kavach has so far been deployed on 1465 Route km and 139 locomotives (including Electric Multiple Unit rakes) on South Central Railway.
4. Presently Kavach tenders have been awarded for Delhi–Mumbai & Delhi–Howrah corridors (approximately 3000 Route km). The progress of main items related to Kavach is as under:
  - (i) Laying of Optical Fibre Cable : 3040 Km
  - (ii) Installation of Telecom Towers : 269 Nos.
  - (iii) Provision of equipment at Stations : 186 Nos.
  - (iv) Provision of equipment in Loco : 170 Locos
  - (v) Installation of Track side equipments : 827 Route Km.
5. Implementation of Kavach involves installation of Station Kavach at each and every station, installation of RFID tags throughout the track length and provision of Loco Kavach on each and every Locomotive running on Indian Railway, a communication backbone, requiring installation of Towers throughout the section, laying of optical Fiber throughout the section. Kavach is being provided progressively.
6. Approval of OEMs is a continuous process. Presently, there are three OEMs approved for Kavach.
7. The budgetary allocation for Kavach during year 2023-24 is Rs. 798.98 Crore and utilization so far is Rs. 321.85 Crore.

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