

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 933**  
**ANSWERED ON 09.02.2024**

**INSTALLATION OF KAVACH IN INDIAN RAILWAYS**

933 SHRI JAVED ALI KHAN:

Will the Minister of RAILWAYS be pleased to state:

- (a) the details of funds allocated for installation of anti collision device Kavach in Indian Railways in interim budget 2024-25;
- (b) the reasons for slow pace of installation of Kavach system in Indian Railways;
- (c) whether less budget and least release of funds are behind its slow pace;
- (d) if so, the details thereof and reasons therefor; and
- (e) the steps proposed/to be proposed to accelerate it?

**ANSWER**

MINISTER OF RAILWAYS, COMMUNICATIONS AND  
ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

(a) To (e):

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. Presently, there are three OEMs approved for Kavach. Approval of OEMs is a continuous process and further efforts are being made to develop more OEMs to enhance the capacity and scale up the implementation.
7. Funds are no constraints in Kavach works. Fund allocated for installation of anti-collision device ‘Kavach’ in interim budget 2024-25 is Rs. 557.96 Crores.

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