

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
UNSTARRED QUESTION NO. 569
ANSWERED ON 26.07.2024

BUDGETARY ALLOCATION FOR INSTALLATION OF KAVACH

569. SHRI NEERAJ SHEKHAR:

Will the Minister of RAILWAYS be pleased to state:

- (a) the details of budgetary allocation for installation of anti-collision device Kavach on various routes of railways during last three years and the current year, year-wise and route-wise;
- (b) the details of Kavach installed on various routes of railways as on date, route-wise; and
- (c) the details of fund allocated for installation of Kavach system on various routes of railways during 2024-25?

ANSWER

MINISTER OF RAILWAYS, INFORMATION & BROADCASTING AND ELECTRONICS &
INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

(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 aids the loco pilot in train running within specified speed limits by automatic application of brakes in case Loco Pilot fails to do so and also helps the train to run safely during inclement weather.
- 3. Implementation of Kavach involves execution of many activities, such as:
 - a. Installation of Station Kavach at each and every station.
 - b. Installation of RFID tags throughout the track length.
 - c. Installation of Telecom Towers throughout the section.
 - d. Laying of optical Fibre cable along the track.
 - e. Provision of Loco Kavach on each and every Locomotive running on Indian Railways.

4. Kavach has so far been deployed on 1465 Route km and 144 locomotives on South Central Railway.
5. Presently, the progress of main items related to Kavach on Delhi– Mumbai & Delhi– Howrah corridors (approximately 3000 Route km) is as under:
 - (i) Laying of Optical Fibre Cable: 4275 Km
 - (ii) Installation of Telecom Towers: 364 Nos.
 - (iii) Provision of equipment at Stations: 285 Nos.
 - (iv) Provision of equipment in Loco: 319 Locos
 - (v) Installation of Track side equipments: 1384 RKm.
6. Indian Railways has also prepared Detailed Project Report (DPR) and Detailed Estimate on another 6000 RKm.
7. On 16.07.2024, Kavach 4.0 specification has been approved by RDSO. This version covers all the major features required for the diverse railway network. This is a significant milestone in safety for Indian Railways. Within a short period, IR has developed, tested and started deploying Automatic Train Protection System.
8. Kavach is provided progressively in phased manner.
9. To increase capacity and scale up implementation, trials and approval of more OEMs are at different stages.
10. The funds utilized on Kavach works so far is ₹1216.77 Crores. The allocation of funds during the year 2024-25 is ₹1112.57 Crores.
