

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION NO. 339
TO BE ANSWERED ON 24.07.2024**

KAVACH SYSTEM ON HIGH SPEED TRACKS

**339. SHRI ARVIND GANPAT SAWANT:
SHRI SHRIRANG APPA CHANDU BARNE:**

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the maximum speed capacity of rail tracks has already been increased to 130 Kmph and proposed to be increased more than 160 Kmph at a latter stage;**
- (b) if so, the details, thereof;**
- (c) whether the automatic train protection system, “Kavach”, is needed on the high-speed tracks;**
- (d) if so, the details of the rail tracks identified for installation of Kavach in the first phase and second phase;**
- (e) the details of the tracks where the Kavach has been installed, route-wise; and**
- (f) the details of the rail tracks in Maharashtra where the Kavach has been installed and proposed to be installed?**

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

(SHRI ASHWINI VAISHNAW)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (f) OF UNSTARRED QUESTION NO.339 BY SHRI ARVIND GANPAT SAWANT & SHRI SHRIRANG APPA CHANDU BARNE TO BE ANSWERED IN LOK SABHA ON 24.07.2024 REGARDING KAVACH SYSTEM ON HIGH SPEED TRACKS

(a) & (b): Raising of speed to 130 kmph is a continuous and ongoing process. Till date, sectional speed has been raised to 130 kmph on approximately 11,000 route kilometers in Indian Railways.

(c) to (f):

- 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 a number of complex activities, such as:**
 - a) Installation of Station Kavach at every station.**
 - b) Installation of RFID tags throughout the track.**
 - 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 :

- a) Laying of Optical Fibre Cable: 4275 Km.**
- b) Installation of Telecom Towers: 364 Nos.**
- c) Provision of Station Equipment: 285 Nos.**
- d) Provision of equipment in Loco: 319 Locos**
- e) 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. Part of the routes mentioned above are also passing through Maharashtra.

8. Kavach is provided progressively in phased manner.
