

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 3311**  
**ANSWERED ON 28.03.2025**

**SPECIAL SAFETY POLICY FOR PASSENGERS ON MUMBAI SUBURBAN  
TRAINS**

3311 DR. AJEET MADHAVRAO GOPCHADE:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether Government is working with the Government of Maharashtra and other relevant stakeholders to develop a special safety policy for passengers on Mumbai Suburban trains and for fire safety equipment in these trains;
- (b) if so, the details thereof, if not, the reasons therefor; and
- (c) whether Government is coordinating with Government of Maharashtra and relevant stakeholders to implement regular safety mock drills for Mumbai Suburban train passengers to manage fire incidents, if so, the details thereof and if not, the reasons therefor?

**ANSWER**

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

(SHRI ASHWINI VAISHNAW)

(a) to (c): Safety is accorded the highest priority on Indian Railways. The various safety measures taken to enhance safety in train operations including the suburban are as under:-

1. On Indian Railways, the expenditure on Safety related activities has increased over the years as under:

<b>Expenditure on Safety related activities</b>				<b>(Rs. in Cr.)</b>	
	<b>2013-14 (Act)</b>	<b>2022-23 (Act)</b>	<b>2023-24 (Act)</b>	<b>RE 2024-25</b>	<b>BE 2025-26</b>
Maintenance of Permanent Way & Works	9172	18,115	20,322	21,800	23,316
Maintenance of Motive Power and Rolling Stock	14796	27,086	30,864	31,540	30,666
Maintenance of Machines	5406	9,828	10,772	12,112	12,880
Road Safety LCs and ROB/ RUBs	1986	5,347	6,662	8,184	7,706
Track Renewals	4985	16,326	17,850	22,669	22,800
Bridge Works	390	1,050	1,907	2,130	2,169
Signal & Telecom Works	905	2,456	3,751	6,006	6,800
Workshops Incl. PUs and Misc. expenditure on Safety	1823	7,119	9,523	9,581	10,134
<b>Total</b>	<b>39463</b>	<b>87,327</b>	<b>1,01,651</b>	<b>1,14,022</b>	<b>1,16,470</b>

2. Electrical/Electronic Interlocking Systems with centralized operation of points and signals have been provided at 6,623 stations up to 28.02.2025 to eliminate accident due to human failure.
3. Interlocking of Level Crossing (LC) Gates has been provided at 11,089 level Crossing Gates up to 28.02.2025 for enhancing safety at LC gates.
4. Complete Track Circuiting of stations to enhance safety by verification of track occupancy by electrical means has been provided at 6,631 stations up to 28.02.2025.
5. Kavach is a highly technology intensive system, which requires safety certification of highest order. Kavach was adopted as a National ATP system in July 2020. Kavach is provided progressively in phased manner. Kavach has already been deployed on 1548 Rkm on South Central Railway and North Central Railway. Presently, the work is in progress on Delhi-Mumbai and Delhi-Howrah corridors (approximately 3000 Route Km). Track side works on these routes have been completed on about 2066 Rkm. Regular trials are being done on these sections.
6. Detailed instructions on issues related with safety of Signalling e.g. mandatory correspondence check, alteration work protocol, preparation of completion drawing, etc. have been issued.
7. System of disconnection and reconnection for S&T equipment as per protocol has been re-emphasized.
8. All locomotives are equipped with Vigilance Control Devices (VCD) to improve alertness of Loco Pilots.

9. Retro-reflective sigma boards are provided on the mast which is located two OHE masts prior to the signals in electrified territories to alert the crew about the signal ahead when visibility is low due to foggy weather.
10. A GPS based Fog Safety Device (FSD) is provided to loco pilots in fog affected areas which enables loco pilots to know the distance of the approaching landmarks like signals, level crossing gates etc.
11. Modern track structure consisting of 60kg, 90 Ultimate Tensile Strength (UTS) rails, Pre-stressed Concrete Sleeper (PSC) Normal/Wide base sleepers with elastic fastening, fan shaped layout turnout on PSC sleepers, Steel Channel/H-beam Sleepers on girder bridges is used while carrying out primary track renewals.
12. Mechanisation of track laying activity through use of track machines like PQRS, TRT, T-28 etc to reduce human errors.
13. Maximizing supply of 130m/260m long rail panels for increasing progress of rail renewal and avoiding welding of joints, thereby improving safety.
14. Ultrasonic Flaw Detection (USFD) testing of rails to detect flaws and timely removal of defective rails.
15. Laying of longer rails, minimizing the use of Alumino Thermic Welding and adoption of better welding technology for rails i.e. Flash Butt Welding.
16. Monitoring of track geometry by OMS (Oscillation Monitoring System) and TRC (Track Recording Cars).
17. Patrolling of railway tracks to look out for weld/rail fractures.
18. The use of Thick Web Switches and Weldable CMS Crossing in turnout renewal works.
19. Inspections at regular intervals are carried out to monitor and educate staff for observance of safe practices.
20. Web based online monitoring system of track assets viz. Track database and decision support system has been adopted to decide rationalized maintenance requirement and optimize inputs.
21. Detailed instructions on issues related with safety of Track e.g. integrated block, corridor block, worksite safety, monsoon precautions etc. have been issued.
22. Preventive maintenance of railway assets (Coaches & Wagons) is undertaken to ensure safe train operations.
23. Replacement of conventional ICF design coaches with LHB design coaches is being done.
24. All unmanned level crossings (UMLCs) on Broad Gauge (BG) route have been eliminated by January 2019.
25. Safety of Railway Bridges is ensured through regular inspection of Bridges. The requirement of repair/rehabilitation of Bridges is taken up based upon the conditions assessed during these inspections.
26. Indian Railways has displayed Statutory "Fire Notices" for widespread passenger information in all coaches. Fire posters are provided in every coach so as to educate

and alert passengers regarding various Do's and Don'ts to prevent fire. These include messages regarding not carrying any inflammable material, explosives, prohibition of smoking inside the coaches, penalties etc.

27. Production Units are providing Fire detection and suppression system in newly manufactured Power Cars and Pantry Cars, Fire and Smoke detection system in newly manufactured coaches. Progressive fitment of the same in existing coaches is also underway by Zonal Railways in a phased manner.
28. Regular counselling and training of staff is undertaken.
29. Concept of Rolling Block introduced in Indian Railways (Open Lines) General Rules vide Gazette notification dated 30.11.2023, wherein work of integrated maintenance/ repair/replacement of assets is planned up to 52 weeks in advance on rolling basis and executed as per plan.

The details of the Safety related works related to better maintenance practices, Technological improvements, better infrastructure and rolling stock etc. undertaken by Railways are tabulated below:-

SN	Item	2004-05 to 2013-14	2014-15 to 2024-25 (till Jan 25)	2014-25 Vs. 2004-14
	<b>Technological improvements</b>			
1	Use of high-quality rails (60 Kg) (Km)	57,450 km	1.4 lakh km	More than 2 times
2	Longer Rail Panels (260m) (Km)	9,917 km	76,000 km	More than 7 times
3	Electronic Interlocking (Stations)	837 stations	3,243 stations	4 times
4	Fog Pass Safety Devices (Nos.)	As on 31.03.14: 90 nos.	As on 31.01.25: 25,293	281 times
5	Thick Web Switches (Nos.)	Nil	27,079 nos.	
	<b>Better maintenance practices</b>			
1	Primary Rail Renewal (Track Km)	32,260 km	49,000 km	1.5 times
2	USFD (Ultra Sonic Flaw detection) Testing of Welds (Nos.)	79.43 lakh	1.9 crore	More than 2 times
3	Weld failures (Nos.)	In 2013-14: 3699 nos.	In 2024-25: 301 nos.	92 % reduction
4	Rail fractures (Nos.)	In 2013-14: 2548 nos.	In 2024-25: 243 nos.	91% reduction
	<b>Better infrastructure and Rolling stock</b>			
1	New Track KM added (Track km)	14,985 nos.	34,000 km	More than 2 times

2	Flyovers (RoBs)/ Underpasses (RUBs) (Nos.)	4,148 nos.	12,771 nos.	More than 3 times
3	Unmanned Level crossings (nos.) on BG	As on 31.03.14: 8948	As on 31.03.24: Nil (All eliminated by 31.01.19)	Removed
4	Manufacture of LHB Coaches (Nos.)	2,337 nos.	41,551	More than 17 times

In order to ensure safety preparedness, regular mock drills are conducted on Indian Railways including Mumbai suburban with participation of National Disaster Response Force (NDRF), Civil Defence, Fire Brigade, City Police, Government Railway Police and Medical Teams along with Indian Railway's own teams.

Following measures have been taken for safety including fire safety in coaches:

1. Provision of Minimum two Fire Extinguishers in all coaches over Indian Railways.
2. Fire Detection & Suppression System has been provided in fire prone areas of Power cars and Pantry cars.
3. Fire and smoke Detection system has been provided in coaches as per extant guidelines.
4. Water mist type fire suppression system is being provided on pantry cars and power cars in phased manner.
5. Provision of emergency windows in coaches for evacuation in case of fire.
6. Use of Fire-retardant material as per global fire-retardant norms in coaches for seats/berths, panels, flooring, insulation, toilets etc for improved fire safety.
7. Use of fire retardant E-beam cable in coaches.
8. Use of different level of protection in the form of fuses, Miniature Circuit breaker (MCBs) and Motor protection Circuit Breakers (MPCBs) in the electrical circuits to prevent the damage from electrical faults/surges.
9. Provision of Aerosol based fire suppression system in electrical cabinets.
10. Further, up-gradation of material in line with global standards is regularly being carried out with fitment of new generation material in Amrit Bharat & Vande Bharat Sleeper trains.
11. Display of "Fire Notices" for widespread information in all coaches to inform and alert passengers regarding various "Do's" and "Don'ts" to prevent fire. These include messages regarding not to carry any inflammable material, explosives, prohibition of smoking inside the coaches and penalties etc.
12. Prohibition of flame based cooking in coaches.

Regular maintenance of various fire safety equipments/components as per the prescribed periodicity is carried out by the designated officials at Depots/Sheds for ensuring their proper upkeep.

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