

**GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS**

**LOK SABHA  
UNSTARRED QUESTION NO.2152  
TO BE ANSWERED ON 04.03.2020**

**DELAY/CANCELLATION OF TRAINS**

**2152. SHRI P.C. GADDIGOUDAR:**

**Will the Minister of RAILWAYS be pleased to state:**

**(a) the details of the trains which have been delayed/ cancelled due to fog and fragile law and order situation in various parts of the country and the loss of revenue incurred by the Railways as a result thereof; and**

**(b) the steps taken/proposed to be taken by the Government to ensure that train services do not get disturbed due to foggy conditions?**

**ANSWER**

**MINISTER OF RAILWAYS AND COMMERCE & INDUSTRY**

**(SHRI PIYUSH GOYAL)**

**(a) A large number of trains are affected every year during foggy weather in the winter months in Northern parts of the country. The percentage of Mail/Express trains delayed due to fog between 16<sup>th</sup> December 2019 and 25<sup>th</sup> February 2020 is 15.99%. With a view to managing the operational bottlenecks during foggy weather, Indian Railways had cancelled 3608 services of Mail Express trains (approx. 55 train services per day) including planned cancellation of 39 Pairs of Mail Express trains, frequency reduction of 23 pairs of Mail express trains from 16<sup>th</sup> December 2019 to 25<sup>th</sup> February 2020. Indian Railways had cancelled 462 services of Mail Express due to law and order issues during this period.**

**The monetary loss to the Railways is not calculated train-wise or on the basis of punctuality of trains.**

**(b) The following steps have been taken by the Railways to avoid delay of trains during the foggy weather:**

**1. To enhance the level of safety for trains running in automatic block signaling sections, a modified automatic signaling system has been introduced in Northern Railway and North Central Railway which restricts the number of trains to two between two stations during foggy weather.**

**2. Luminous paints/strips have been provided on the Signal Sighting Boards viz., Passenger and Good warning boards, Signals at stations/interlocked Level Crossing Gates to enhance visibility of signal aspects to loco pilots.**

**3. Inspections at Officers and supervisors level, including night inspections, are being carried during foggy weather for spreading more awareness and alertness among the maintenance staff.**

**4. Railways have now decided to implement Automatic Train Protection (ATP) Systems on select sections. These systems enable Loco Pilots to drive trains even during heavy fog as movement authority/Signal aspect is displayed in Cab of the Loco. This helps Loco Pilot to run the train confidently even during impaired visibility.**

**The following of ATP systems are working or/in-progress:**

**(i) Train Protection and Warning System: Automatic Train Protection (ATP) System based on European Train Control System (ETCS Level-1) Technology i.e. Train Protection and Warning System (TPWS) has been implemented on 345 Route km (200 Route km Delhi - Agra Section, 117 Route km Chennai Suburban section and 28 Route km of Metro Railway Kolkata).**

**(ii) Train Collision Avoidance System (TCAS): Train Collision Avoidance System (TCAS) is an indigenous Automatic Train Protection (ATP) System developed in association with three Indian manufacturers. The**

**system has been installed on Lingampalli – Vikarabad – Wadi and Vikarabad - Bidar sections (250 Route km) on South Central Railway.**

**(iii) Pilot projects for the provision of Modern Train Control System (MTCS) based on latest LTE based European Train Control System (Level 2) is under implementation on 4 pilot sections of 1840 Route Kms.**

**Two works of raising of speed upto 160kmph on existing New Delhi – Howrah and New Delhi – Mumbai Routes have been sanctioned. MTCS (based on ETCS Level-2) is also being provided on existing New Delhi-Howrah and New Delhi-Mumbai section to enable operation of trains at 160 Km.**

**5. To ensure that train services are not disturbed due to foggy conditions and to assist the Loco Pilots to run the train during foggy weather condition, Fog PASS Device, a Global Positioning System (GPS) based hand held portable device, is given to Loco Pilots in fog affected sections. It serves as an aid for the crew during foggy weather through audio visual alarm, wherever any landmark comes within the Geo-fence range. Locations of stations, warning boards, signals, level crossing gates and Whistle for Level crossing (W/L) boards in the section are fed in the equipment, which displays speed of the locomotive, distance and time to reach landmarks.**

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