

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
STARRED QUESTION NO.147
ANSWERED ON 01.08.2025

INTRODUCTION OF AWPMS IN RAILWAYS

*147 # SHRI NARESH BANSAL:

Will the Minister of RAILWAYS be pleased to state:

- (a) the objectives and salient features of the recently signed Memorandum of Understanding (MoU) with Delhi Metro Rail Corporation (DMRC) for setting up Automatic Wheel Profile Measurement System (AWPMS);
- (b) the technological advancements introduced through AWPMS, particularly non-contact measurement, and their impact on safety and operational efficiency;
- (c) the number of AWPMS units planned under this initiative and the role of DMRC in their procurement, installation and commissioning; and
- (d) the manner in which integration of AWPMS supports the broader goals of modernization and technological upgradation of Indian Railways?

ANSWER

MINISTER OF RAILWAYS, INFORMATION & BROADCASTING AND
ELECTRONICS & INFORMATION TECHNOLOGY
(SHRI ASHWINI VAISHNAW)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) To (d) OF STARRED QUESTION NO. 147 BY SHRI NARESH BANSAL ANSWERED IN RAJYA SABHA ON 01.08.2025 REGARDING INTRODUCTION OF AWPMS IN RAILWAYS

(a) to (d) Delhi Metro Rail Corporation (DMRC) is nominated to undertake the work of Procurement, Supply, Installation, Testing and Commissioning of four (04) nos. of Automatic Wheel Profile Measurement System (AWPMS). DMRC shall be responsible for implementing the Project till commissioning of the AWPMS at respective 04 sites of IR.

AWPMS is a way-side inspection system for Accurate and real-time monitoring of Wheel profile. The advantages of AWPMS are as below:

1. The system is fully automatic.
2. The system is installed on the normal train movement path, so wheel measurement takes place as the train moves, resulting in saving of time.
3. Alarms/ maintenance alerts get generated automatically and informed to users through SMS and email. Hence early action on rectifications of faults can be taken.
4. The status of wheel profile parameters can be seen by multiple authorized users from anywhere, through the web portal. So, dissemination of information to all concerned is swift.
5. Wheel profile data created by the system will help in knowing wear trend to plan in advance wheel turning and analysing wear patterns of different wheels.

Introduction of AWPMS supports Indian Railways broader goals of modernization and technological upgradation as it is a step towards automation of maintenance activities related to rolling stock.
