

GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO-276**  
ANSWERED ON-27/11/2024

**INNOVATIVE METHODS FOR ROAD SAFETY**

276. SHRI JAGGESH:

Will the Minister of ROAD TRANSPORT AND HIGHWAYS be pleased to state :-

- (a) whether it is a fact that the adoption of cutting-edge technologies like Artificial Intelligence (AI) can be used to increase road safety; and
- (b) whether Government proposes to use Artificial Intelligence (AI) and other innovative methods to check traffic violations and ensure that penalties are levied accurately and to upgrade toll collection methods including exploration of satellite toll systems, if so, the details thereof?

**ANSWER**

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) and (b) As per available information, road accidents are multi causal in nature and violation of traffic rules is the major cause of road accidents. In order to strengthen the enforcement of traffic rules in the country, the Motor Vehicles (Amendment) Act, 2019 provides for electronic monitoring and enforcement of road safety. Accordingly, Central Government has published rules in August, 2021 for Electronic Monitoring and Enforcement of Road Safety at high-risk and high-density corridors on National Highways, State Highways and at critical junctions in Million plus cities in India and cities under National Clean Air Programme (NCAP).

While Central Government formulates rules under the Motor Vehicle Act, 1988, the enforcement of these rules comes under the purview of State Governments / UT Administrations.

Further, Advanced Traffic Management System (ATMS) is installed in high traffic density National Highways and National Expressways such as Delhi-Meerut Expressway, Trans-Haryana, Eastern Peripheral Expressway etc. by National Highways Authority of India (NHAI). Advanced Traffic Management System (ATMS) has provisions for various electronic enforcement devices which help in speedy identification of incidents on the highway stretches and effectively monitor the highways, thereby improving the response time of the on-site assistance.

In October, 2023, NHAI has also updated ATMS document which gives the functional and technical specifications of ATMS solution and its sub-systems like Video Surveillance System, AI based Video Incident Detection and Enforcement System (VIDES), etc. In new NH projects on high density and high speed corridors of NHAI, installation of ATMS is generally a part of the project. Further, ATMS is also implemented as standalone projects in already constructed important corridors.

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