

GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

**RAJYA SABHA**  
**UNSTARRED QUESTION NO-414**  
ANSWERED ON- 23/07/2025

**ROAD SAFETY BY RAPID INFRASTRUCTURE DEVELOPMENT**

414. SHRI AYODHYA RAMI REDDY ALLA:

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

- (a) the need for rapid infrastructure development in the road transport sector with the imperative of environmental sustainability, considering the long-term implications of highway construction on ecosystems and climate change is balanced; and
- (b) the role Intelligent Transportation Systems (ITS) can play in enhancing road safety, reducing congestion and improving traffic management in the country's rapidly growing urban centres and what are the key challenges in implementing such systems?

**ANSWER**

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) The Government has been making conscious efforts in integrating sustainability into all aspects of the planning, execution, operation and management of National Highways.

The key initiatives of environmental sustainability taken by the Government are as under:

- Green Highways Initiative for plantation along National Highways;
- Use of Renewable Energy in Street lights and other areas;
- Waste Utilization in Construction;
- Use of Sustainable Materials & Technologies in Highway construction;
- Conservation of Wildlife Habitats during Highway planning;
- Amrit Sarovar & Rain Water Harvesting etc.

(b) Intelligent Transport System (ITS) can be implemented as Advanced Traffic Management System (ATMS). The objective of ITS is to reduce accidents, traffic violations and incident response time by implementation of ATMS solution in Highways and Expressways in phased manner.

The Government through NHAI has issued Policy Circular No. 11.53 on 10.10.23 to implement the Advanced Traffic Management System (ATMS) on National Highways and Expressways. The Policy includes surveillance of the entire Highway stretch and AI-based Video Incident Detection and Enforcement System which will also facilitate generation of E-challans by Police and other Enforcement Agencies. The Policy document aims to reduce accidents, traffic violations and incident response time. NHAI envisages to implement the ATMS solution in Highways and

Expressways in phased manner. In order to implement the said ATMS Policy, NHAI is making it as part of Highway Projects and also implementing the ATMS as standalone Projects such as Dwarka Expressway, Bengaluru-Mysuru expressway etc. As the ATMS projects are being implemented following major challenges are being faced:

- a. coordination with various state governments for implementation.
- b. ensuring standardization, quality monitoring of electronic equipment being used in the projects.

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