GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

RAJYA SABHA
UNSTARRED QUESTION NO - 428
ANSWERED ON - 22/07/2026

INTELLIGENT TRANSPORT SYSTEMS AND DIGITAL HIGHWAY INFRASTRUCTURE

428. SHRI L. K. SUDHISH:

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

(a) the steps taken to promote Intelligent Transport Systems (ITS), Artificial Intelligence-based traffic management and digital monitoring on National Highways;
(b) whether Government has assessed the impact of these technologies on reducing travel time, congestion and fuel consumption;
(c) the details of expenditure incurred on deployment of such technologies during the last three years; and
(d) the roadmap for expanding technology-enabled highway infrastructure across the country?

ANSWER

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) The Government envisages deployment of Advanced Traffic Management Systems (ATMS) with the objective of improving road safety and reducing accidents on National Highways. The system architecture includes deployment of AI-based Video Incident Detection and Enforcement Systems (VIDES), Automatic Number Plate Recognition (ANPR) cameras, PTZ cameras, and surveillance cameras for electronic monitoring, enforcement, early detection of incidents, and real-time field response.
Details of the ATMS corridors presently under implementation are as below:

Corridor Name	**Length (km)**	**Awarded Cost (in Rs. Cr) ex GST**	**State(s)**
Bangalore – Mysore (Augmentation)	117	3.63	Karnataka
Dwarka Expressway	58	16.65	Delhi, Haryana
Lucknow Ring Road	103	55.69	Uttar Pradesh
UER-II	75	28.00	Delhi, Haryana
Delhi-Agra	180	49.03	Uttar Pradesh

(b) No Specific study has been undertaken.

(c) Implementation of ATMS was earlier being undertaken as part of National Highway projects as well as through standalone deployments. The cost towards ATMS implementation

undertaken as part of National Highway projects is inbuilt by contractors/concessionaires in the civil works of highway construction in certain projects. The expenditure towards standalone projects is as details provided in part (a) above.

(d) The Government has adopted a phased roadmap for deployment of Advanced Traffic Management Systems (ATMS) across all 4-lane and above National Highways and Expressways (about 52,647 km). The roadmap includes establishment of Local, Regional, and National Command and Control Centers for centralized monitoring, incident management, traffic analytics, and coordinated response. To ensure interoperability, scalability, and uniform service delivery across the National Highway network, a Unified ATMS Software Platform is being implemented with standardized protocols for monitoring, enforcement, data integration, and performance management.

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