GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

RAJYA SABHA
STARRED QUESTION NO. 182
ANSWERED ON- 17/12/2025

MULTI-LANE FREE FLOW (MLFF) TOLLING AND DIGITAL HIGHWAY MANAGEMENT

*182. # SHRI ADITYA PRASAD:

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

(a) the current progress of the Multi-Lane Free Flow (MLFF) Tolling pilot projects;

(b) the toll plazas where its implementation has been commenced;

(c) the manner whereby FASTag, ANPR cameras and RFID-based systems are being integrated into MLFF for accurate toll deduction and vehicle identification;

(d) whether any assessment has been conducted on the potential impact of MLFF on congestion, fuel-saving and user convenience, if so, the details thereof; and

(e) the plans to expand MLFF to other locations during the current financial year?

ANSWER

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

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

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF THE RAJYA SABHA STARRED QUESTION NO. 182 FOR ANSWER ON 17.12.2025 ASKED BY SHRI ADITYA PRASAD REGARDING MULTI-LANE FREE FLOW (MLFF) TOLLING AND DIGITAL HIGHWAY MANAGEMENT.

(a) to (b) In effort to enhance toll operations and enable seamless movement of vehicles, the Government has decided to implement Multi-Lane Free Flow (MLFF) Electronic Toll Collection system, which facilitates barrier-less tolling using integrated technologies including Automatic Number Plate Recognition (ANPR) with AI analytics and RFID-based Electronic Toll Collection (FASTag). Request for Proposal (RFP) to implement FASTag+ANPR/AI barrier-free user fee collection system on the selected fee plazas has been invited/finalized as per the Annexure.

(c) Under the Multi-Lane Free Flow (MLFF) tolling system, gantry installed high performance Radio Frequency Identification (RFID) readers and Automatic Number Plate Recognition (ANPR) cameras are used for deduction of user fee through existing FASTag system. These components operate concurrently for redundancy and enhance accuracy of toll transactions.

(d) to (e) Implementation of Barrier-less fee collection system on other fee plazas is planned in a phased manner depending upon the outcome and efficacy of the implementation on already awarded pilot projects. Further, as it is a barrier less tolling system, it is expected to improve user convenience by offering faster and seamless travel, while also delivering significant economic benefits through cost savings, higher operational efficiency, environmental benefits, and improved productivity. Some of the expected key advantages are as under:

(i) As vehicles are not required to stop or slow down at fee plaza lanes, it ensures smoother and uninterrupted journeys for road users.

(ii) The elimination of queuing and waiting at fee plazas on National Highways reduces fuel consumption and leads to lower vehicular emissions, thereby benefiting the environment.

(iii) In the absence of physical toll booths and barriers, operational and maintenance costs are substantially reduced, resulting in lower expenditure on infrastructure upkeep and manpower.

(iv) Faster and uninterrupted movement of goods enhances logistics efficiency and lowers overall transportation costs.

(v) Barrier-less tolling also improves user fee collection by enabling automated and efficient tolling operations at fee plazas on National Highways.

ANNEXURE REFERRED TO IN REPLY TO PART (a) TO (b) OF RAJYA SABHA STARRED QUESTION NO. 182 FOR ANSWER ON 17.12.2025 ASKED BY SHRI ADITYA PRASAD REGARDING MULTI-LANE FREE FLOW (MLFF) TOLLING AND DIGITAL HIGHWAY MANAGEMENT.

The details of fee plazas for which Request for Proposal (RFP) has been invited/finalized for implementation of barrier less tolling:

Name of the fee plaza	State	Corridor Name	Status
Choryasi	Gujarat	Bharuch-Surat (NH-8)	Construction Commenced
Gharaunda	Haryana	Panipat-Jalandhar (NH-44)	Construction Commenced
Manoharpura	Rajasthan	Delhi-Jaipur (NH-48)	Construction Commenced
Shahjahanpur	Rajasthan	Delhi-Jaipur (NH-48)	Construction Commenced
Daulatpura	Rajasthan	Delhi-Jaipur (NH-48)	Construction Commenced
Mundka	Delhi	UER-II (NH-344M and 344P)	Construction Commenced
Nemili (Sriperumbudur)	Tamil Nadu	Walajapet – Poomalle (NH-48)	Awarded
Chennasamudram	Tamil Nadu	Walajapet – Poomalle (NH-48)	Awarded
Paranur	Tamil Nadu	Tambaram - Tindivanam (NH-32)	Awarded
Boriach	Gujarat	Surat–Dahisar (NH-48)	Awarded
Kaniminike/ Sheshagirihalli	Karnataka	Bangalore-Mysore Highway	Bids Invited
Gananguru	Karnataka	Bangalore-Mysore Highway	Bids Invited
Bijwasan & Kukrola (Shifted Khedki Daula)	Delhi & Haryana	Dwarka Expressway (NH-248BB)	Bids Invited
Amakathadu	Andhra Pradesh	Hyderabad - Bangalore (NH-44)	Bids Invited
Kasepalli	Andhra Pradesh	Hyderabad - Bangalore (NH-44)	Bids Invited
Marur	Andhra Pradesh	Hyderabad - Bangalore (NH-44)	Bids Invited
Chalakwadi	Maharashtra	Pune – Nashik Highway	Bids Invited
Hiwargaon Pavasa	Maharashtra	Pune – Nashik Highway	Bids Invited
Badarpur Faridabad	Delhi	Delhi-Faridabad Highway	Bids Invited
Madanpur	Assam	Guwahati-Baihata Highway	Bids Invited

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