

GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO-1864**  
ANSWERED ON- 11/12/2024

**GNSS BASED TOLL SYSTEM**

1864. SHRI V. VIJAYASAI REDDY:  
DR. SYED NASEER HUSSAIN:

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

- (a) the current implementation status of the Global Navigation Satellite System (GNSS) based toll system, including funds allocated, Expression of Interest (EOI's) received and the timeline proposed for its nationwide implementation;
- (b) the impact of the pilot projects conducted in Haryana and Karnataka;
- (c) the Ministry's plans for increasing consumer accessibility and adoption;
- (d) whether the GNSS toll system will have built-in mechanisms to ensure transparency in pricing and to prevent overcharging of road users, and if so, the details thereof; and
- (e) the manner in which the Ministry plans to transition from existing toll systems?

**ANSWER**

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

- (a) The Government has initiated the implementation of barrier free tolling using available Technology based Electronic Toll Collection (ETC) System as an added facility along with FASTag. Request for Proposal (RFP) to implement barrier-free user fee collection system on the project "Dwarka Expressway" has been invited/floated, with the possibility of implementing it on other fee plazas in a phased manner depending upon the outcomes and efficacy of the implementation on Dwarka Expressway. Presently, Global Navigation Satellite System (GNSS) based user fee collection system is not operational anywhere on National Highways.
- (b) The pilot project was conducted to test the efficacy of the Automotive Industry Standard (AIS) 140 Vehicle Location Tracking (VLT) Devices for Global Navigation Satellite System (GNSS) based user fee collection. The results of the pilot project revealed that fully compliant AIS 140 VLT Devices with certain modification are suitable for GNSS based Tolling in India.
- (c) & (d) Does not arise as GNSS based user fee collection system is not operational anywhere on National Highways.
- (e) It has been decided to initially implement barrier free Electronic Toll Collection (ETC) System with available technology and use of existing fee plaza infrastructure, along with FASTag payment mechanism, at selected sections of National Highways.

\*\*\*\*