

Satellite-based Tolling System

Source: TH

The <u>National Highway Authority of India (NHAI)</u> has invited **expressions of interest (EoI)** for the implementation of a <u>satellite-based electronic toll collection system.</u>

- The winning entity will have to develop a geo-referenced map and toll-charging software for the Global Navigation Satellite System (GNSS).
 - A georeferenced digital map or image has been tied to a known Earth coordinate system, so users can determine where every point on the map or aerial photo is located on the Earth's surface.
 - A GNSS is the generic term for any of the satellite constellations that broadcast positioning, navigation and timing data. It is used in all forms of transportation like space stations, aviation, maritime, rail, road and mass transit.
 - Indian Regional Navigation Satellite System (IRNSS) is an autonomous system designed to cover the Indian region and 1500 km around the Indian mainland. The system consists of 7 satellites.
- NHAI plans to implement the GNSS-based electronic toll collection system alongside RFID-based
 Fastags currently being used by vehicles.
 - FASTag is a device that employs <u>Radio Frequency Identification (RFID)</u> technology for making toll payments directly while the vehicle is in motion.

Read more: NHAI

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