



VIL/P&O/TRAI/AK/2026/058  
June 18, 2026

**Advisor (Networks, Spectrum and Licensing)**  
**Telecom Regulatory Authority of India,**  
4th, 5th, 6th & 7th Floor, Tower-F,  
World Trade Centre, Nauroji Nagar,  
New Delhi – 110029



**Kind Attn: Shri Akhilesh Kumar Trivedi**

**Subject:** VIL's Counter Comments on the TRAI's Consultation Paper on "Consultation Paper on the Regulatory Framework for Vehicle-to-Everything (V2X) Communication" issued on 30.04.2026.

Dear Sir,

This is in reference to the TRAI's consultation Paper on "Consultation Paper on the Regulatory Framework for Vehicle-to-Everything (V2X) Communication" issued on 30.04.2026.

In this regard, kindly find enclosed herewith counter comments from Vodafone Idea Limited on the above-said consultation paper.

We hope our comments will merit the Authority's kind consideration please.

Thanking you,

Yours sincerely,

For **Vodafone Idea Limited**

**Ambika Khurana**  
**Chief Regulatory and Corporate Affairs Officer**

Enclosed: As stated above



**VIL Counter Comments to the TRAI Consultation Paper on  
“Regulatory Framework for Vehicle-to-Everything (V2X) Communication.”**

This is with reference to the TRAI Consultation Paper on “Regulatory Framework for Vehicle-to-Everything (V2X) Communication” dated 30.04.2026 and the comments from various stakeholders on this paper, as uploaded on TRAI’s website.

Vodafone Idea Limited (VIL) has submitted comments to the questions raised in the above-said consultation paper. Further, we have also gone through the comments of various stakeholders on the above-said consultation paper and would like to submit our counter-comments for Authority’s kind consideration, as given below:

**1. Standardization of the Intelligent Transportation System stack**

a. One of the stakeholders have mentioned that:

*“1. Yes, there is a clear need to standardize the layered communication framework, particularly the higher layers of the ITS protocol stack, to ensure interoperability among RSUs and OBUs.*

*2. While LTE-based -V2X provides a common and standardized access layer, the overall performance of the system depends equally on how information is structured, transmitted and interpreted at the higher layers of the communication stack/ Without such standardization, different devices may not be able to correctly exchange or understand safety messages, which may compromise safety.*

*3. Standardizing the higher-layer protocol stack ensures that messages such as collision warnings, traffic alerts and signal phase information are uniformly defined and interpreted across all devices, regardless of the manufacturer.*

*4. This is critical because V2X communication involves multiple stakeholders, including vehicles, infrastructure, and pedestrian devices, all operating in a shared environment....”*

b. Similarly, another stakeholder has also mentioned that:

*“Yes, Standardisation of the Intelligent Transportation System (ITS) stack for higher layers above the access layer (PC5/Uu) is essential for end-to-end interoperability across India’s V2X ecosystem. As also discussed in the consultation paper, we recommend adopting the ETSI ITS stack as the baseline standard.....”*



- c. In this regard, we support the above views of the stakeholders that standardization is required as per the ETSI standard layer as it is already done in ITS recommendation by the committee. The ETSI standard for ITS stack and security, as recommended by the Task Force on Intelligent Transportation System for the use of 5.9 GHz should be adopted.

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