

**Government of India**  
**Department of Telecommunications**  
**Telecommunication Engineering Centre**  
**Khurshid Lal Bhawan, Janpath, New Delhi- 110001**

Date: 2511.2024

Circular

**Subject: Inviting nominations for reconstitution of National Working Group 13 (NWG-13) corresponding to ITU-T Study Group 13 "Future networks and emerging network technologies " for the Study Period 2025-28-reg.**

Telecommunication Engineering Centre (TEC) is a technical arm of Department of Telecommunications, Government of India. TEC prepares interoperable specifications in the form of Generic Requirements (GRs), Interface Requirements (IRS), Service Requirements (SRs) and Essential Requirements (ERs) etc. TEC is also the National Standardization Body (NSB) for telecom and ICT Sector and mandated to participate and submit contributions in the meetings of ITU and other standardization bodies such as APT, ETSI, 3GPP, oneM2M etc. TEC has National Working Groups (NWGs) corresponding to respective ITU-T Study Groups (SGs) for submitting contributions in International Telecommunication Union-Telecommunication Standardization Sector (ITU-T) Study Groups

2 The international standards (ITU-T Recommendations) developed by ITU-T Study Group 13 (SG13) address the requirements, architectures, functional capabilities and application programming interfaces of converged future networks. The key focus areas of SG13 include network softwarization and orchestration, information-centric networking, content-centric networking, and the application of machine learning technologies.

3 SG13 focuses on non-radio networking aspects of IMT-2020 and beyond, that includes project-management coordination across all ITU-T study groups and the planning of standards releases. SG13 studies aspects of fixed, mobile and satellite convergence for multi-access networks, mobility management, and enhances existing ITU-T Recommendations on mobile communications, including the energy-saving aspects. The details about SG-13 can be found at <https://www.itu.int/en/ITU-T/studygroups/2025-2028/13/Pages/default.aspx>.

4 It is pertinent to mention here that International Telecommunication Union (ITU) conducts the World Telecommunication Standardization Assembly (WTSA) every four years to define the work program, working methods and structure of Study Groups for the ITU Telecommunication Standardization Sector (ITU-T) for the next study period of four years. In October 2024, WTSA-24 was successfully hosted in India and the roadmap for the Study Groups were defined for the coming four years i.e., 2025-2028.

5 As per the prevalent practice, NWGs are reconstituted at the beginning of each Study Period for corresponding ITU-T Study Groups. Therefore, TEC is in the process of reconstituting National Working Group (NWG)-13 corresponding to ITU-T SG13 Study Period 2025-2028. NWG- 13 is chaired by DDG (MT) and comprise experts from the industry/start-ups, R&D organizations, academia, service providers, Govt. Organization etc.



6 NWG-13 has been actively submitting contributions in nearly all ITU-T SG13 meetings since 2016. Also, India has consistently participated in these meetings, presenting both in-person and remotely. NWG-13 has made significant contributions across various work items in the last Study Period. A few of the significant recommendations which have been initiated through NWG-13 are Y.2325(Y.Arch\_NGNe\_ncp), Y.3059 (ex Y.Trust-Registry) and Y.3187 (ex Y.ML-IMT2020-MLFO) (07/2023).

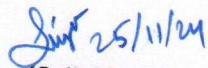
7 The broad areas of study for NWG-13 will be same as those of ITU-T SG13. The objective of the NWG-13 is to contribute to ITU-T SG13, keeping in view the interest of Indian Telecom Sector. The NWG-13 shall build consensus by harmonizing the interests of various stakeholders and proactively make necessary contributions to ITU-T SG13. The contributions from India developed through NWG- 13 and submitted to ITU-T SG13 shall be towards inclusion of Indian requirements in the ITU-T recommendations & standards.

8 The list of ITU-T SG-13 questions under study for the study period 2025-28 is mentioned below:

- i. Q1/13: Innovative convergence service including service model, scenarios, technical aspects in future network
- ii. Q2/13: Next-generation network (NGN) evolution by adoption of emerging network technologies
- iii. Q5/13: Applying future networks and innovation in developing countries
- iv. Q6/13: International mobile telecommunications (IMT) networks and quantum communications: Quality of service (QoS) mechanisms
- v. Q7/13: Network awareness and network intelligence including big data driven networking and human-like networking
- vi. Q16/13: Future networks: Trustworthy and quantum enhanced networking and services
- vii. Q17/13: Requirements and capabilities for computing including cloud computing and data handling
- viii. Q18/13: Functional architecture for computing including cloud computing and data handling
- ix. Q19/13: End-to-end management, governance, and security for computing including cloud computing and data handling
- x. Q20/13: International mobile telecommunications (IMT) networks and artificial intelligence/machine learning: Requirements and architecture
- xi. Q21/13: Network softwarization
- xii. Q22/13: Enhanced information-centric networking (ICN) and emerging network technologies
- xiii. Q23/13: Fixed, mobile and satellite convergence

9 As the development of standards is a consultative and collaborative process, nominations of subject matter/domain experts are solicited for reconstitution of NWG-13 for the Study Period 2025-28. The said nominations may kindly be forwarded by e-mail to [adg-mt2.tec@gov.in](mailto:adg-mt2.tec@gov.in) with copy to, [dir6g.tec-dot@gov.in](mailto:dir6g.tec-dot@gov.in), [ramt.tec-dot@nic.in](mailto:ramt.tec-dot@nic.in) within 15 days of issue of this circular in the following format:

S.NO.	Name	Designation	Organisation	E-mail	Phone No,

  
(Sujit Kumar)  
Director (MT-I), TEC

To

1. All Stakeholders through DoT/TEC website.
2. ADET (IT), DoT HQ-for uploading on DoT website.
3. AD (IT), TEC- for uploading on TEC website.

Copy to:

- i. Sr. DDG, TEC- for kind info pl.
- ii. Chair, NWG-13- for kind info pl.

