



भारत सरकार  
दूरसंचार विभाग  
दूरसंचार अभियांत्रिकी केंद्र  
खुशीद लाल भवन, जनपथ  
नई दिल्ली-110001

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



File No. 2-1/2023-QT/TEC

Date: 29th November, 2023

## **OFFICE MEMORANDUM**

**Subject: Constitution of “National Working Group on Quantum Technology”**

### **Background:**

Department of Telecommunications has constituted National Working Groups (NWGs) with the objective to contribute to the global standardization activities keeping in view the interest of Indian Telecommunications. The NWGs were initially mapped with ITU-T Study Groups, however, later the work items related to other standardization body viz. IEEE was also mapped to NWGs. The NWGs serve as a platform for the various stakeholders such as academia, industry/startups, R&D organizations, service providers, Govt. Organizations, etc. to contribute in creation of global standards which becomes the basis of creation of national standards.

### **Introduction:**

2. The development of Quantum Technology standards being at a nascent stage, requires more focus for participation at global standardization activities which can be later utilized in development of national standards on Quantum Technology. However, due to work items on Quantum Technology being spread across various NWGs, having different major technical domain, it is felt that it requires dedicated and focused approach.

3. In view of rapid advancements in the area of Quantum Technology and standardization activities related to Quantum Technology being dealt in various standardization bodies such as ITU-T, IEEE, ETSI, etc., it has been decided to constitute a “National Working Group on Quantum Technology” (NWG-QT) to have a focused and coordinated approach for development of standards on Quantum Technology keeping in view the national interests. The NWG-QT will be the nodal working group on standardization in Quantum Technology domain. The work items on Quantum Technology which are spread across various Study Groups/NWGs are, hereby, brought under NWG-QT along with the standardization activities/items related to Quantum Technology in other international standardization bodies. The NWG-QT is expected to play a key role in promoting Indian industry in Quantum Technology domain, nurture and handhold the development of Indian products for Domestic and Global markets.

4. The NWG-QT will focus on bringing on-board all stakeholders on Quantum Technology from academia, industry/startups, R&D organizations, service providers, Govt. Organizations, etc. for the development of national standards in Quantum Technology domain. The NWG-QT will also build consensus and

harmonize the interests of various stakeholders and make contributions to the National and Global Standards Development/Setting Bodies in Quantum Technology domain.

**5. Constitution of NWG-QT:** There will be one chair (from DoT/TEC), vice-chair(s) and convener. To start with, DDG(QT), TEC will be the chair of NWG-QT. The vice-chair(s) and convener would be either from DoT/TEC or from NWG-QT member organizations as decided by the NWG-QT members. The NWG-QT members would be from academia, industry/startups, R&D organizations, service providers, Govt. Organizations, etc.

## **6. Methodology for Contribution:**

**6.1 Contribution to development of National Standards:** The NWG-QT will deliberate upon the areas where development of national standards is required and contribute thereto. The draft of the national standard would be deliberated in the NWG-QT and the inputs of NWG-QT on the draft would be considered during the finalization of standards as per the TEC procedures.

**6.2 Contribution to Global Standardization Bodies:** The contributions on Quantum Technology related standards for Global standardization bodies will be deliberated and finalized in NWG-QT. The same would be submitted by NWG-QT after approval of Member(S), DCC, as being followed in other NWGs.

**7. Meeting periodicity:** The NWG-QT (all members) shall meet at least twice in a quarter. However, the Management Group (Chair, Vice-chair, Convener) of NWG-QT should meet at least once in a month and the Management Group may call for any other member(s) of the NWG-QT for this meeting as per the need.

**8. Review of NWG-QT performance:** Sr. DDG, TEC will conduct periodical internal review of the NWG-QT performance.

This issues with the approval of Sr.DDG, TEC.

वेकट राम राजु चेल्ले/ Venkata Rama Raju Chelle,  
निदेशक (क्वांटम प्रौद्योगिकियां) /Director (Quantum Technology)

Copy to:

1. Sr. PPS to Secretary (T)
2. PPS to Member(S)/Member(T)
3. DDG(IR), DoT HQ
4. DDG(AI&DIU), DOT HQ w.r.t. OM No. 18-14/2023/S-I dated 25.10.2023
5. Chair of all NWGs