

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

No. 26-1/2022-FA/TEC

Date: 07.02.2025

**Meeting Notice**

**Subject: First (1<sup>st</sup>) meeting of NWG-15 corresponding to ITU-T SG-15 “Networks, technologies and infrastructures for transport, access and home” for study period 2025-2028-reg.**

The first meeting of ITU-T Study Group-15 “Networks, technologies and infrastructures for transport, access and home” for the study period 2025-2028 is scheduled from 17-28 March, 2025 in Geneva, Switzerland. The last date for submitting the contributions to ITU-T is **4<sup>th</sup> March, 2025**.

2. In view of the above, First (1<sup>st</sup>) meeting of National Working Group (NWG)-15 is scheduled as per below details to discuss the contributions received by the NWG-15 members in online mode only:


Meeting Date & Time: **Friday, 14.02.2025 at 11:00 hrs**

Meeting Link: <https://cdotmeet.cdot.in/vmeet/rooms/1bb-a8c-qqt-ucn/join>

All the members are requested to submit the contributions to [adgfa-tec-dot@gov.in](mailto:adgfa-tec-dot@gov.in) with a copy to [dirfa.tec@gov.in](mailto:dirfa.tec@gov.in) and [ddgfla.tec@gov.in](mailto:ddgfla.tec@gov.in) latest by **12.02.2025**.

3. More details about ITU-T SG-15 are available at Annexure-A (enclosed).

All NWG-15 members are kindly requested to make it convenient to attend the meeting.



(Jasvir Singh Panesar)  
Director (FA), TEC &  
Convener of NWG-15  
E-Mail: [dirfa.tec@gov.in](mailto:dirfa.tec@gov.in)

Encl: As above

To (through email),

1. All members of NWG-15

Copy to (through email):

1. Sr. DDG & Head, TEC- for kind information pl
2. DDG (FA), TEC & Chair NWG-15 - for kind information pl
3. AD (IT), TEC- for uploading it on TEC website.

## Annexure-A

Telecommunication Engineering Centre (TEC) has re-constituted National Working Group (NWG)-15 corresponding to ITU-T Study Group-15 titled “**Networks, technologies and infrastructures for transport, access and home**” for the study period 2025-2028, with an objective to contribute to ITU-T SG-15 activities keeping in view the interest of Indian Telecommunications. The NWG-15 will build consensus and harmonize the interests of various stakeholders, and proactively make contributions to ITU-T on the below mentioned questions:

- i. Q2/15: Optical systems for fibre access networks
- ii. Q3/15 : Technologies for in-premises networking and related access applications
- iii. Q4/15: Broadband access over metallic conductors
- iv. Q5/15: Characteristics and test methods of optical fibres and cables, and installation guidance
- v. Q6/15: Characteristics of optical components, subsystems and systems for optical transport networks
- vi. Q7/15: Connectivity, operation and maintenance of optical physical infrastructures
- vii. Q8/15: Characteristics of optical fibre submarine cable systems
- viii. Q10/15: Interfaces, interworking, OAM, protection and equipment specifications for packet-based transport networks
- ix. Q11/15: Signal structures, interfaces, equipment functions, protection and interworking for optical transport networks
- x. Q12/15: Transport network architectures
- xi. Q.13/15: Network synchronization and time distribution performance
- xii. Q.14/15: Management and control of transport systems and equipment

Further details about ITU-T SG-15 can be found at below link:

<https://www.itu.int/en/ITU-T/studygroups/2025-2028/15/Pages/default.aspx>

2. Following potential work items are recently under discussion in ITU-T SG-15 and Members of NWG-15 may consider submitting contributions in these work-items, apart from any other workitems / new proposals.

Q.No	Brief description of work items in each question in the ITU-T SG-15.
Q2/15: Optical systems for fibre access networks	1. TP-BAIN: Technical paper Broadband access & in-premises network - The content of this technical paper includes: Roadmap of access & in-premises technologies Technical flyers of dedicated technologies (such as DSL, GPON, XG(S)-PON, NG-PON2, HSP, G.fin, G.hn, G.9904, G.fast, G.mgfast, ect.) related Applications. 2. Revision of G.9805 (2022) Amd.2: 'Coexistence of Passive Optical Network Systems'; 3. New workitem-Characteristics of Coordinated Multi-Point (CoMP) technology to support IMT-2030/6G and future networks by fronthauling in NG-PON2: India's contribution was discussed in the last SG15 meeting and subsequent correspondence discussions. Q2/15 has asked India to furnish a contribution suggesting Appendix to

	G.989.3 recommendation.
Q5/15: Characteristics and test methods of optical fibres and cables, and installation guidance	<p>1. G.Sup.47: General aspects of single-mode optical fibres and cables specified in the ITU-T G.65x series of Recommendations.</p> <p>2. New work item G.Sup.G.65x: "Roadmap for SDM (space division multiplexing) optical fibres concerning the development of G.65x series Recommendations". India is actively contributing towards the development of specifications for Multicore Fibre in this new work item.</p> <p>3. Revision of L.102/L.26: "Optical fibre cables for aerial application"</p> <p>4. Revision of L.104: "Small count optical fibre cables for indoor applications"</p> <p>5. Revision of L.105: "Optical fibre cables for drop applications"</p> <p>6. New Recommendation L.apl: "Optical fibre cables for aerial application along electrical power lines".</p> <p>7. Revision of L.107: "Optical fibre cable construction for sewer duct applications"</p> <p>8. Revision of L.110: "Optical fibre cables for direct surface application"</p> <p>9. Revision of L.110: "Optical fibre cables for in-home applications"</p>
Q6/15: Characteristics of optical components, subsystems and systems for optical transport networks	<p>1. G.dfos: New recommendation on the technical requirements of Distributed fibre optic sensing (DFOS) system for terrestrial optical transmission system;</p> <p>2. G.fso: New recommendation on Terrestrial Free space optics (FSO) applications, primarily intended for mobile backhaul with short reach interfaces.</p> <p>3. Revision of G.661: "Definitions and test methods for the relevant generic parameters of optical amplifier devices and subsystems".</p>
Q7/15: Connectivity, operation and maintenance of optical physical infrastructures	<p>1. Revision of L.341/L.88: 'Maintenance of telecommunication poles and overhead facilities'. Indian contribution regarding Indian experience on GRP pole is agreed to be included in the final draft after incorporating the suggestions received in the last SG15 meeting;</p> <p>2. Revision of L.360/L.80: 'Operations support system requirements for infrastructure and network elements management using ID technology'. Indian contribution on FTTX network monitoring expert was highly appreciated in the last meeting and group has further requested to update the draft based on the suggestions received in the last SG15 meeting;</p> <p>3. Revision of L.391/L.81: 'Monitoring systems for outside plant facilities';</p> <p>4. L.nis: New recommendation on 'Practical considerations for network infrastructures sharing'. Baseline text of the draft was amended based on the Indian contribution.</p>
Q13/15: Network synchronization and time distribution performance	<p>1. Revision of G.978: "Common aspects of PTP (Precision Time Protocol) profiles for phase/time synchronization - Amendment 2".</p>

For detailed work programme , please visit –

[https://www.itu.int/ITU-T/workprog/wp\\_search.aspx?sg=15](https://www.itu.int/ITU-T/workprog/wp_search.aspx?sg=15)

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