Technology Approval Certification for C-DoT's developed XGS-PON system

TEC, New Delhi had completed evaluation of CDOT developed XGS-PON (10-Gigabit-capable symmetric passive optical network) system under Technology Approval in March 2021 as per TEC Standard TEC 71030:2018.

Technology approval process included XGS-PON OLT and four Type-1variant of Home-ONTs; out of the four ONT, two ONTs were supporting dual fibre protection. Testing was done in CDOT lab, for assessing compliance to technical parameters as per TEC Test Guide Standard. Environmental, EMI/EMC and Safety testing were done in third party labs. Field Trial was done in MTNL's network at three locations in Delhi for four weeks. All the tests done in the CDOT lab were repeated during the field trial.

Upon successful completion of all test phases and demonstration of expected results, Technology Approval Certificate was issued to C-DoT on 9th April, 2021.

A brief of XGS-PON technology is given below:

XGS-PON technology provides ultra-high speed broadband service with upstream and downstream data rate of 10 Gbps and other triple play services. The symmetrical 10 Gbps speed and compatible architecture with GPON technology has made it a viable option for high-speed data, voice and Internet requirements. Since XGS-PON can co-exist on the same fiber plant as G-PON without changes to the passive architecture and is capable of higher split ratios, it provides a logical and cost-effective expansion option.

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