

**Government of India
Ministry of Communications
Department of Telecommunications
Telecommunication Engineering Centre
K.L. Bhawan, Janpath, New Delhi - 110001
(Transmission Division)**

File No. 8-6/2022-Tx/TEC

Dated: 12.09.2022

Subject: Revision/Re-affirmation of Standards for GRs of Tx division.

Dear Sir/Madam,

Tx division of TEC is in process of review of its Standards for GRs and intends to revise/reaffirm some of its Standards in view of evolving telecom network scenario.

Accordingly, the attached list of Standards for GRs has been reviewed in TEC and it is felt that no change is required and the Standards can be reaffirmed without any change.

It is requested to kindly offer valuable comments whether any revision is required in these Standards or the existing Standards for GR may be reaffirmed. The response in this regard may please be e-mailed by **22.09.2022** to adgt1.tec@gov.in, adet-tx-tec-dot@gov.in with cc to ddgt.tec@gov.in, dirt1.tec@gov.in and dirt2-tec-dot@gov.in.

Kamla Pargai
ADG (Tx-I)
TEC, New Delhi.
M: 9868236169

List of Standards to be Revised/Reaffirmed

I	Optical Fibre Cables	
S.N.	Standard Name	Standard Number
1	Armoured Optical fibre cable for underground duct application (type-I & type-II)	TEC 85170:2011, March 2011 with Errata No. 1 dated 06.07.2020
2	Optical ground wire (OPCW) cable (for laying on power lines)	TEC 851800:2011 September,2011
3	Non-zero dispersion Optical fibre cable for wideband optical transport (g.656 fibre)	TEC 85150:2008 November,2008
4	Metal-free Optical fibre cable (g.652 d fibre)	TEC 85140:2007 June, 2007
5	Micro duct Optical fibre cable	TEC 85130:2005 July, 2005
6	Optical fibre drop cable with installation accessories (for outdoor and indoor applications)	TEC 85120:2005 August, 2005
7	Outdoor drop optical fibre cable (Figure Eight type) with installation accessories	TEC 85100:2005 September, 2005
8	Armoured Optical fibre cable for direct burial (Underground)	TEC 85010:2003 September, 2003 Amendment No. 1 dated 29.06.2004

II	Optical Transmission Systems	
S.N.	Standard Name	Standard Number
1	Flexible (Versatile) Multiplexer Equipment for Access Network Applications	TEC 86000:2011
2	2 Mb/s Pulse Code Modulation (PCM) multiplexing equipment	TEC 86010:2009
3	STM-1 Synchronous Multiplexer	TEC 86020:2011
4	STM-4 Synchronous Multiplexer for Terminal Multiplexer, ADM and Multi-ADM applications	TEC 86030:2011
5	STM-16 Synchronous Multiplexer for Terminal multiplexer, ADM and multi-ADM applications	TEC 86040:2011
6	STM-64 Synchronous Multiplexer for TM, ADM & M-ADM applications for Metro Networks	TEC 86050:2011

7	40/80 Channel Dense Wavelength Division Multiplexing (DWDM) System with Channel bit-rate of 10 Gbps for Core /Metro Network Applications.	TEC 86080:2016
8	Optical-Electrical-Optical (O-E-O) based Digital Cross-Connect (DXC) Equipment with Automatic Switched Optical Network (ASON) Capability	TEC 86120:2008

III	Optical Test and Measuring Instruments	
S.N.	Standard Name	Standard Number
1	Next Generation SDH Transport Network Tester @ STM-1/4/16 Rates at 1310 & 1550nm & STM-64 Rates at 1550nm wavelengths	TEC 88250:2010 April, 2010
2	Optical Time Domain Reflectometer (for Long haul applications) (Type-II) (1550nm & 1625nm wavelength)	TEC 88140:2010 April, 2010
3	STM-1, STM-1/4, STM-1/4/16, STM1/4/16/64 and Standalone STM-64 SDH analyser with Jitter and Wander operating at 1310nm and 1550nm wavelengths	TEC 88260:2009 February, 2009
4	STM-1, STM-1/4, STM-1/4/16, S1/4/16/64 and Standalone STM-64 SDH analyser without Jitter and Wander operating at 1310nm and 1550nm wavelengths	TEC 88270:2009 February, 2009

IV	Optical Transmission Products (Miscellaneous)	
S.N.	Standard Name	Standard Number
1	Ethernet Media Converter	TEC 89070:2012, September, 2012
2	Synchronous Supply Unit (SSU)	TEC 89080:2012, March, 2012