

List of TEC Generic Requirements (GRs) with reference to para 9 of Notification No. 18-10/2017-IP dated 29th August 2018

Sl. No.	Telecom Equipment Description	Name of TEC GR/IR
1	Encryption/UTM platforms (TDM and IP)	Unified Threat Management (TEC/GR/IT/UTM-010/02 MAR-18)
2	IP/MPLS Core routers/ Edge/ Enterprise Router	Router for MPLS Based Transport Network (TEC/GR/IT/TCP-004/01.FEB2014)
3	Managed Leased line Network equipment	Managed Leased Line Network (GR/PDN - 11/04.JUL2004)
4	Ethernet Switches (L2 and L3), Hubs	Managed Leased Line Network (GR/PDN - 11/04.JUL2004) IR - LAN Switch (TEC/IR/IT/LSW-003/01 SEP 2014)
5	IP based Soft Switches, IMS, Unified Communication Systems	1. GR of Soft Switch for Local & Transit Wireline Application (No. TEC/GR/SW /N N-LTS/02.Feb' 13) 2. GR of IMS TISPAN Architecture (No.IMS TEC/GR/SW/ITA-001/02/ MAR-10) 3. GR of Unified message system (No.GR/UMS-01/ 02.APR2005)
6	Wireless/Wireline PABXs / IP PBX & / Media Gateways	1. GR of Private Automatic Branch Exchange (No.TEC/GR/SW/PBX-001/02/OCT17) 2. GR of IP-PABX (No.TEC/GR/SW /PBX-IP/01/MAR 2015) 3. GR of IP PABX with Media Gateway (No.TEC/GR/SW/PBX-005/01/SEP 2016) 4. GR of Line Media Gateway (No.TEC/GR/SW/LMG -001/02. Mar. 14) 5. GR of Trunk Media Gateway (No.TEC/GR/SW/TMG-001/05/SEP-16)
7	CPE (including Wi-Fi Access points and Routers, Media Converters), 2G/3G/4G/LTE Modems, Leased-line Modems, NFV/SDN CPE	1. GR on Wi-Fi Access Point (TEC 38020:2021) 2. GR on Wi-Fi Hotspot (TEC 38030:2017) 3. GR on Wireless Local Area Network (TEC 38040:2011) 4. GR on WLAN Controller (TEC 38010:2017)

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8	Set-Top Boxes	Set Top Box for Content Services in IP Network (TEC/GR/IT/STB - 001/03 MAR 2014)
9	SDH/Carrier-Ethernet/MPLS- TP/ Packet Optical Transport equipment/ PTN/ OTN systems	<ol style="list-style-type: none"> 1. STM-1 Synchronous Multiplexer (TEC 86020:2011) 2. STM-4 Synchronous Multiplexer for TM, ADM & Multi-ADM Application (TEC 86030:2011) 3. STM-16 Synchronous Multiplexer for TM, ADM & Multi-ADM Applications (TEC 86040:2011) 4. STM-64 Synchronous Multiplexer at bit rates for (TM & ADM) for Metro Applications (TEC 86050:2011) 5. Multi-Service Optical Transport Network (OTN) platform with DWDM bearer transport system for Metro and Core Network applications (TEC 86090:2017)
10	DWDM/C WDM systems	<ol style="list-style-type: none"> 1. 40/80 Channel Dense Wavelength Division Multiplexing (DWDM) Equipment with Channel Bit-rates upto 10Gbps for Metro/Core Network Applications (TEC 86080:2016) 2. 40/80 Channel Dense Wavelength Division Multiplexing (DWDM) Equipment with Channel Bit-rates upto 40Gbps for Core Network Application (TEC 86060:2010) 3. 40/80 Channel Dense Wavelength Division Multiplexing (DWDM) Equipment with Channel Bit-rates upto 100/200Gbps for Metro/Core Network Applications (TEC 86070:2021)

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11	GPON / XGS-PON, NG-PON2 equipment (including ONT and OLT)	<p>(i) FTTH/FTTB/FTTC Broadband Access Applications using GPON Technology with amendment dated 28.6.2017 (Number TEC 71010:2017)</p> <p>(ii) FTTX based Broadband Access Applications using GPON technology with Mini-OLT(Number TEC 71040:2018)</p> <p>(iii) FTTH/FTTB/FTTC Broadband Access Applications Using EPON Technology (Number TEC 71060:2019)</p> <p>(iv) 40-Gigabit-capable Passive Optical Network (NG-PON2) technology for FTTX based broadband applications(Number TEC 71070:2020)</p> <p>(v) 10 Gigabit Passive Optical Network(XG-PON) Technology for FTTx based Broadband Applications(Number TEC 71050:2018)</p> <p>(vi) 10 Gigabit Symmetric Passive Optical Network(XGS-PON) Technology for FTTx based Broadband Applications(Number TEC 71030:2018)</p> <p>(vii) Wavelength Division Multiplexing Passive Optical Network (WDM-PON) Technology for FTTx based Broadband(Number TEC 71020:2017)</p> <p>(viii) Nx25G-EPON (25G-EPON and 50G-EPON) for FTTx Broadband Access Applications (Number TEC 71080:2021)</p> <p>(ix) 10G-EPON for FTTx Broadband Access Applications (Number TEC 71090:2021)</p> <p>(x) XGS-PON (Mini-OLT) system for FTTx based broadband applications (Number TEC 71100:2021)</p>
12	Optical/SDH/PDH Cross Connects/ OTN Cross-connects and optical MUX,OADM	<p>1. 64 Kb/s Cross Connect with 2048 Kb/s access Port (TEC 86100:2008)</p> <p>2. SDH-based Digital Cross Connect system with 40G, 60G & 80G capacities (TEC 86110:2009)</p> <p>3. Optical-Electrical-Optical (O-E-O) based Digital Cross-Connect (DXC) Equipment with Automatic Switched Optical Network (ASON) Capability (TEC 86120:2008)</p> <p>4. Multi-Service Optical Transport Network (OTN) platform with DWDM bearer transport system for Metro and Core Network applications (TEC 86090:2017)</p>
13	Small size 2 G/3 G GSM based Base Station Systems, with its various derivatives including rural & disaster response, Macro & Micro BTS, Small Cells, NIB. C-RAN BBU and RRH	GR: Small Size GSM Radio Sub System (TEC 21020:2009)

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14	2 G/3 G GSM based Base Station Systems, with its various derivatives including rural & disaster response, Macro & Micro BTS, Small Cells, NIB, C-RAN BBU and RRH	General Packet Radio Service GPRS (TEC 22000: 2002) Network Switching Sub System NSS of IMPS (TEC 22020: 2004) General Packet Radio Services for GSM GERAN and UMTS (TEC 21010: 2006) Universal Mobile Telecommunication System Terrestrial Radio Access Network UTRAN Rel 7 (TEC 21040: 2011) Universal Mobile Telecommunication System Core Network Rel 7 (TEC 22130: 2012)
15	Small Size LTE/LTE-R Based Mobile Systems, with its various derivatives including rural & disaster communications, Macro & Micro eNode B, Small Cells, EPC, NIB C-RAN BBU and RRH ,LTE/LTE-R/4.5 G/ 5 G based broadband wireless access systems (eNode B, gNB, EPC. etc.)	ENodeB (TEC 21050:2019) EPC (TEC 22150:2019)
16	LTE/LTE-R Based Mobile Systems, with its various derivatives including rural & disaster communications, Macro & Micro eNode B, Small Cells, EPC, NIB C-RAN BBU and RRH ,LTE/LTE-R/4.5 G/ 5 G based broadband wireless access systems (eNode B, gNB, EPC, etc.)	ENodeB (TEC 21050:2019) EPC (TEC 22150:2019)
17	Wi-Fi based broadband wireless access systems (Including Access Point, Aggregation Block, Core Block), Integrated Broadband system	GR on Radio Modem in ISM band (TEC 38050:2016)
18	Microwave Radio systems (IP/Hybrid), Mobile Front haul BBU and RRH (CPRI, eCPRI, FlexE, RoE, NGFI)	1. 18 GHz, 16 x 2 Mb/s Integrated Digital Microwave Equipment (GR/DMW-03/05. JAN 2008) 2. SDH, STM-1 Microwave equipment in 6GHz and 11GHz frequency bands (GR/DMW-09/04.NOV 2008) 3. SDH, Integrated Microwave Equipment in 13 GHz band (GR/DMW-11/03. SEP2008) 4. 15 GHz 4X2 Mbps Integrated Digital Microwave equipment (GR/DMW-15/02.DEC2004) 5. 23 GHz 4X2 Mbps Integrated Digital Microwave Equipment (GR/DMW-17/02.DEC2004)

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		<p>6. 15 GHz, STM-1, SDH Microwave Equipment (GR/DMW-18/02.FEB 2007)</p> <p>7. Local Multipoint Distribution system in 28 GHz Frequency band (TEC/GR/R/LMDS-003/03. MAR 2016)</p> <p>8. Local Multipoint Distribution system in 26 GHz Frequency band (TEC/GR/R/LMDS-002/03. MAR 2016)</p> <p>9. Local Multipoint Distribution system in 10.5 GHz Frequency Band (TEC/GR/R/LMDS-001/03.MAR 2016)</p> <p>10. Point to Multipoint Multi Frequency Broadband System for frequency bands 3.3-3.4 GHz,3.5 GHz, 10.5 GHz & 26 GHz (GR/PMB-01/01.MAR2007)</p> <p>11. INTEGRATED MICROWAVE EQUIPMENT for 4/8/16 E1 in 15 GHz and 23 GHz Frequency bands (GR/DMW-01/01. SEP 2009)</p> <p>12. 13 GHz, 34 /16 x 2 Mbps Microwave Equipment Dated: 15/06/2004)(Amendment No. 1 (GR/DMW-08/02.Jan2003)</p> <p>13. 18 GHz Sub STM-1 Integrated Digital Microwave Equipment (GR/DMW-13/02.JAN2005(Supersedes GR/DMW-13/01.DEC)</p> <p>14. 18 GHz STM-1 Integrated Digital Microwave Equipment (GR/DMW-19/2.FEB 2007) (Supersedes GR/DMW- 19/01.J)</p> <p>15. 7 GHz SDH STM-1 Microwave Equipment (TEC/TSTP/GR/TX/DMW- 12/03. JAN. 2011)</p> <p>16. Digital Circuit Multiplication Equipment (DCME) with 5:1 and 10:1 gain (GR/DME-01/03.SEP 2006)</p> <p>17. Digital Circuit Multiplication Equipment (DCME) with20:1 gain (TEC/TX/GR/DME-02 /03 .MAR 2010 SUPERCEEDED GR/D)</p> <p>18. Hybrid Microwave Radio Equipment(15, 18 and 23GHz) (TEC/TX/GR/HMR-001/01.MAR-12)</p> <p>19. Milimeter Wave (E-Band) Microwave Equipment (TEC/TX/GR/MMW-001/01.MAR-12)</p> <p>20. 7GHz IP Microwave Radio Equipment (TEC/TX/GR/HMR- 002/01.SEP-12)</p> <p>21. 13GHz IP Microwave Radio Equipment (TEC/TX/GR/HMR- 003/01.SEP-12)</p> <p>22. Packet Microwave Radio Equipment (15, 18 & 23GHz) (TEC/GR/TX/PMR-001/01.MAR-13)</p>
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		23. Hybrid Microwave Radio Equipment in upper 6 GHz band (TEC/GR/TX/MWE-001/01. MAR 2015)
19	Software Defined Radio, Cognitive Radio systems	-----
20	Repeaters (RF/RF-over-Optical), I BS, and Distributed Antenna system	-----

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21	Satellite based systems —Hubs, VSAT Disaster Communication Systems etc.	<ol style="list-style-type: none"> 1. 10W/20W Solid State Power Amplifier (SSPA) (1+1) System in C- band (GR/SPA-01/03.DEC 2007) 2. 50W/100W/200W/300W Solid State Power Amplifier (SSPA) (1+1) System Operating (TEC/GR/TX/SPA-08/03 OCT 09) 3. 20 W/50W/100W/250W Solid State Power Amplifier (SSPA) 1+1 System operating in ku band (TEC/GR/TX/SPA-002/01/MAR- 09) 4. 200W and 300W Solid State Power Amplifiers (SSPAs) (1+1) System operating in C band (GR/SPA-08/02.MAR.2006) 5. 30Â°K/45Â°K Low Noise Amplifier system operating in C-band (TEC/GR/TX/LNA- 06/03.NOV.2009) 6. 55Â° K Low Noise Amplifier Subsystem operating in C- band and Ext-C-band (GR/LNA- 03/03.JULY2007) 7. Intermediate Data Rate (IDR) Equipment in Ku band. (GR/IDR-02 / 02. NOV06) 8. Intermediate Data Rate Equipment (IDR) operating in C band (GR/IDR-01 /04.NOV 2006) 9. Long Distance Satellite Telephone (LDST) operating in C band (GR/LST-01/04.MAY.2008) 10. Multi Channel Per Carrier Very Small Aperture Terminal (MCPC VSAT) operating in C band (GR/MPC-01/06.Nov 06) 11. 2 Mbps Digital Echo Cancellor (GR/ECH-02/03. MAY.2007) 12. Bandwidth Saving Satellite IF Modem for C Band (TEC/ GR/TX/BSM-01/01.OCT.2009) 13. Intermediate Frequency Combiner / Divider (TEC/GR/TX/CIF-001/03/JAN-09) 14. RF Power Combiner/Divider in C and Ku bands (TEC/GR/TX/C/CRF-001/03.MAR-09) 15. 400W/700W High Power Amplifiers (1+1) operating in C and Ext C band. (TEC/GR/TX/HPA-001/01/JAN- 09) 16. STM-1 Satellite Modem for Ku band (TEC/GR/TX/STM-001/01/AUG- 08) 17. Digital Satellite Phone System (DSPS) in Ku band (GR/RRL-01/04.FEB 08) 18. RF Fixed Coaxial Attenuators (2W & 5W)(Amendment No. 1Dated: 06/07/2004) (GR/TIT-11/03.JAN 2004) 19. RF Fixed Attenuator(DC- 40 GHz) (GR/TIT-18/02. FEB 2006(Supersedes
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		<p>GR/TIT- 18/01SE) 20. Accessories of Antennas, Feeders and Wave Guides(Amendment No. 1 Dated: 09/07/2004) (GR/ACC-14/02.JUNE2003) 21. GR ON IP OVER SATELITE NETWORK (TEC/TX/GR/BOS-01/01 MAR. 2010) 22. LOW NOISE BLOCK CONVERTER IN C BAND (TEC/GR/TX/LNB-001/01/MAR- 09) 23. L-Band Intermediate Data Rate (IDR) Modem for C and Ku Band (TEC/GR/TX/IDR- 003/01.OCT-13) 24. 34Mbps BANDWIDTH SAVING SATELLITE MODEM (TEC/GR/TX/BSM-02/01.MAR 2014) 25. RAN OPTIMIZATION FOR SATELLITE NETWORK (TEC/TX/GR/RAN-001/01.MAR.2014) 26. WAN OPTIMIZATION FOR SATELLITE NETWORK (TEC/ TX/GR/WAN-001/01.NOV 2014) 27. 400 W and 750 W TWT High Power Amplifiers Operating in Ku-band (TEC/GR/R/HPA-001/01 MAR 2016) 28. Portable VSAT Terminal (TEC/GR/TX/PVT- 001/01.JAN-2011) 29. 1m/1.2m/1.8m/2.4m VSAT antenna operating in Ku band (TEC/TX/GR/SAN-013/03/MAR- 09) 30. 11m Earth station antennas operating in C- band (GR/SAN-01/03.MARCH 2007) (Supersedes No. GR/SAN-01/02.APR.2001) 31. 7 m Earth station antennas operating in C- band (GR/SAN-03/03.MAR.2007) Supersedes GR/SAN-03/02.APR.2001) 32. 3.8 m Earth station antenna operating in Ku band (GR/SAN-18/01.MAY 2008) 33. 1.8m and 2.4m Earth station antennas operating in C- band (GR/SAN-09/04.MAY 2007) Supersedes GR/SAN-09/03.SEP01 34. 5.5 And 8.0 m Earth station antenna operating in Ku band (GR/SAN-11/03.FEB 2006 (Supersedes GR No. GR/SAN-11/02.SEP 2000) 35. 1.2 And 1.8 m Earth station antenna operating in Ku band (GR/SAN-2/03.MAR 2007) Supersedes GR No.GR/SAN-12/02.APR.2001 36.3.8 m Earth station antenna operating in C- band (GR /SAN-15/02. FEB. 2006)</p>
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		<p>(Supersedes GR No. GR/SAN-15/01. APR 2001)</p> <p>37. 1m Earth station antenna operating in Ku band GR/SAN-17/02.MAY 2008 (Supersedes GR No.GR/SAN-17/01.APR 2004)</p> <p>38. 1.2 m VSAT antenna operating in C band (GR/SAN-16/02.MAY 2008) (Supersedes GR No.GR/SAN-16/01.MAR 2004)</p> <p>39. 4.8 and 6.3 m Earth Station Antenna Operating in C-band (No.TEC/GR/R/ANT-001/01 MAR 2016)</p>
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22	Copper access systems (DSL/DSLAM), high-speed xDSL (G.fast)	(i) Very High Speed Digital Subscriber Line (VDSL &VDSL2) Equipment COT and RT Applications (TEC 70070:2018) TEC/GR/FA/DSL-04/02.JAN 2018 (ii) IP-DSLAM TEC 70080:2018 TEC/GR/FA/SLM-001/01 JAN 2018 (iii)IR for ADSL2+ TEC 70062:2015 TEC/IR/ADS-001/02/MAR.2015 (iv) Asymmetric Digital Subscriber Line 2 Plus (ADSL 2+) System for Central Office and Remote Office Applications TEC 70060:2018 TEC/GR/FA/ADS-06/02.JAN 2018 (v) G.Fast equipment (Number TEC 70090:2019) (Old No TEC/GR/FA/GFA-001/01 MAR 2019)
23	Network Management systems (NMS) with its various derivatives	NMS (TEC/GR/IT/NMS-003/01 NOV 2015)
24	Security and Surveillance Communication Systems (video and sensors based) including Perimeter Security Systems	Video Surveillance Platform (TEC 51050:2010) (TEC/GR/SA/VSP-001/01/MAR – 10)
25	Optical Fiber	Raw Materials used in Manufacturing of Optical Fibre Cable (TEC 89010:2021)

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26	Optical Fiber Cable	<ol style="list-style-type: none"> 1. Armoured Optical Fibre Cable for Direct Burial (Underground) (TEC 85010:2003) 2. Self-Supporting Metal Free Aerial Optical Fibre Cable (For Hilly & Rural Area) (TEC 85020:2018) 3. High Count Metal free Optical Fibre Cable (Ribbon Type for Access Network) (TEC 85030:2006) 4. Non Zero Dispersion Shifted Single Mode Metal Free Optical Fibre Cable (TEC 85050:2015) 5. Optical fibre cable for Coastal Areas & High sub soil water condition (TEC 85080:2004) 6. Self-Supporting Metal Free Aerial Optical Fibre Cable (For Urban areas) (TEC 85090:2018) 7. Outdoor Drop Optical Fibre Cable (Figure 8 Type) with Installation Accessories(TEC 85100:2005) 8. Flexible Optical Fibre Cable (For Indoor Applications) (TEC 85110:2021) 9. Optical Fibre Drop Cable with Installation Accessories (TEC 85120:2005) 10. Micro Duct Optical Fibre Cable (TEC 85130:2005) 11. Metal free Optical Fibre Cable (G.652 D Fibre) (TEC 85140:2007) 12. Non–Zero Dispersion Optical Fibre Cable for Wideband Optical Transport (G.656 Fibre) (TEC 85150:2008) 13. Optical Fibre Cable for FTTH application (G.657 A Fibre) (TEC 85160:2021) 14. Armoured Optical Fibre Cable for Duct application (Type-I & Type-II) (TEC 85170:2011) 15. Optical Ground Wire (OPGW) Cable (For laying on Power lines)(TEC 85180:2011) 16. ADSS Optical Fibre Cable For laying along Power line alignments (Type-I & Type-II) (TEC 85190:2017) 17. Aerial Drop Optical Fibre Cable (For Last Mile Application) (TEC 85200:2015) 18. Riser Optical Fibre cable (For Indoor Applications) (TEC 85210:2017) 19. Aerial Optical Fibre Drop Cable for FTTH applications (For Short span) (TEC 85220:2018) 20. ADSS Optical Fibre Cable For laying along Power line alignments (For Long Span)(TEC 85230:2021)
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27	Telecom Power System (Including Solar Power)	<p>(i) Solar Photo Voltaic (SPV) Power Supply for fixed wireless terminals and similar systems (Number. TEC 66080:2016)</p> <p>(ii) Solar Photo Voltaic Power Supply for Telecom equipment (Number. TEC 66090:2017)</p> <p>(iii) Solar Photo Voltaic based Standalone/Hybrid Power Supply for Wi-Fi Terminals and other Similar Terminals (Number. TEC 66100:2017)</p> <p>(iv) 12V DC-DC Power Supply unit with built-in 12V/7AH Battery for CDMA FWTs (Number TEC 66020:2004)</p> <p>(v) Power System Based On Renewable Energy for Telecom Equipment (Number TEC 66150:2020)</p> <p>(vi) Inverters Systems (1 To 48KVA) (Number TEC 66040:2005)</p> <p>(vii) SMPS Based Power Plants (Number. TEC 66110:2017)</p> <p>(viii) Planning & Maintenance Guidelines for Switch Mode Power Supply (SMPS) Based Power Plant (Number. TEC 66069:2015)</p> <p>(ix) 12 V Switch mode power supply (SMPS) for wireless/wire line terminals & similar Systems (Number. TEC 66120:2017)</p> <p>(x) Uninterrupted Power Supply (UPS) System (Number. TEC 66140:2019)</p>
28	Telecom Batteries (Lead Acid & Li-ion)	<p>(i) Lithium Ion Battery for Telecom Applications (Number TEC 67030:2016)</p> <p>(ii) Guidelines for Lithium-Ion Battery (Number TEC 67039:2020)</p> <p>(iii) Value Regulated Lead Acid (VRLA) Batteries with amendment dated 24.7.2012 (Number TEC 67010:2011)</p> <p>(iv) Tubular Valve Regulated Lead Acid (TVRLA) Batteries based on GEL Technology with amendment dated 24.7.2012 (Number TEC 67020:2011)</p> <p>(v) Characterization of VRLA Batteries and Guidelines for the O&M of VRLA batteries (Number TEC 67019:2014)</p> <p>(vi) VRLA batteries for high rate of discharge (UPS) application (Number TEC 67040:2019)</p>
29	IP audio phones / IP video Phones / Analog adaptor	<p>1. GR of SIP Terminal (No.TEC/GR/SW/TER-SIP/03/Oct. 2015)</p> <p>2. IR of SIP Terminal (No.TEC/IR/SW/TER-SIP/02 OCT. 2015)</p>

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30	SDN Software Controllers, NVF and CNF software	Software Defined Network [SDN] Controller, and Additional Requirements for LAN Switches, Carrier Ethernet Switches and Routers for SDN (TEC/GR/IT/SDN-001/01/MAR 2016)
31	Cloud infrastructure, Data centers	Cloud Infrastructure (TEC/GR/I/CLI-001/01 OCT 2012)
32	2 way Analog/Digital radio including Walkie-Talkie & Mobile Radio	1. Interface Requirements on Mobile Radio Trunking Subscriber Unit (TEC 39022:2019) 2. Interface Requirements on Mobile Radio Trunking Communication Equipment (TEC 39012:2019)
33	Batteries of 2 way Analog/Digital radio including Walkie- Talkie	Refer Sl. No. 28
34	Fiber Monitoring System	Remote Fibre Monitoring System (TEC 88150:2015)
35	M2M/IOT Subsystems	-----

*The GR/IR document may be downloaded from <https://www.tec.gov.in/standards-specifications>.

Disclaimer: The above list is indicative. The applicable GR may be selected based on the specific requirement.