

Government of India
Department of Telecommunication
Telecommunication Engineering Centre
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001.
Fixed Access (FA) Division

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Subject: Details of Telecommunication Infrastructure (TI) products and equipment and relevant Standards and TSTP (Test Schedule Test Procedure) that require certification for In-building Development-reg.

Ref No: DOT OM No. 20-1341/2023-AS-I dated 09.07.2025

Details of Telecommunication Infrastructure (TI) products and equipment and relevant Standards and TSTP (Test Schedule Test Procedure) for In building Development are enclosed herewith as **Annexure-A**. The Documents of the Standards and TSTPs are available on TEC Website at <https://tec.gov.in/standards-specifications> .

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To,
All Stakeholders

List TI products and equipment that require certification for In building solution (IBS)

TEC Division	Sr. No.	Name of Telecom Infra (TI) Item/ Technology being used/ deployed in Building.	Standard	TSTP (Test Schedule and Test Procedure)
FA Division	1.	Optical Line Termination (OLT) Equipment ()	FTTX based Broadband Access Applications using GPON technology with Mini-OLT: TEC 71040	TEC 71041
			FTTH/FTTB/FTTC Broadband Access Applications using GPON Technology: TEC 71010	TEC 71011
			PON Family of Broadband Equipment: TEC14762505 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	2.	Optical splitter for PON technology	TEC 72010	TEC 72011
	3.	HDPE telecom Ducts	TEC 72030	TEC 72031
	4.	Micro duct for indoor and outdoor Applications	TEC 72040	TEC 72041
	5.	Fibre Optic Network Terminal Box (FONT)	TEC 72050	TEC 72051
Tx Division	1.	Optical Fibre Cable (OFC)	Uninterrupted Power Supply (UPS) System	TEC 66140
			Aerial Drop OFC for FTTH (For Short span: TEC 85220	TEC 85221
			Aerial Drop OFC (For Last Mile): TEC 85200	TEC 85201
			OFC for FTTH: TEC 85160	TEC 85161
			Flexible OFC: TEC 85110	TEC 85111
			Riser OFC: TEC 85210	TEC 85211
			Micro Duct OFC: TEC 85130	TEC 85131

	2.	Fibre Distribution Frame (FDF)	FTDB (For FTTH applications): TEC 87030	TEC 87031
			FDMS: TEC 87030	TEC 87031
	3.	Optical Fibre Jumpers, Adapters, Hybrid Jumpers and Hybrid Adapters.	TEC 87070	TEC 87071
Radio Division	1.	Wifi equipments operating in 2.4 GHz and 5 GHz	Equipment operating in 2.4 and 5 GHz band: TEC59432407 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	2.	WiFi Hotspot	TEC 38030	TSTP shall be provided for a particular case / building by Radio Division of TEC.
	3.	Wi-Fi Access Point	TEC 38020	TEC 38021
	4.	Wifi CPE	IR on WiFi CPE (USB): TEC 38022	TSTP shall be provided for a particular case / building by Radio Division of TEC.
	5.	Feeder cables	Feeder cable for 900 MHz, 1800 MHz and 2.1 GHz/UMTS Frequency bands (890-960 MHz, 1710-1880 and 1920-2170 MHz): TEC 35080	TSTP shall be provided for a particular case / building by Radio Division of TEC.
	6.	Feeder cables	Feeder Cable for C, Ext C Ku band Inter facility Downlink Feeder Cable: TEC 41470	TEC 41471
	7.	Accessories for Antennas, Feeder Cables and waveguides	Accessories of Antennas, Feeders and Wave Guides: TEC 35090	TSTP shall be provided for a particular case / building by Radio Division of TEC.
	8.	waveguide	6 GHz WAVEGUIDE: TEC 35190	TSTP shall be provided for a particular case / building by Radio Division of TEC.
			Uplink Interfacility Waveguide for C, Ext-C & Ku band: TEC 41460	TSTP 41461
	1.	GSM RF Repeaters and Distributed Antenna System	TEC 21000:2005	TSTP shall be provided for a particular case / building by Mobile Technology Division of TEC.

MT Division	2.	Base Station for Cellular Network (For all types of Base Stations for Cellular Network upto 5G. This ER covers all type of Macro Cell, Micro Cell, Pico Cell and Compact Cellular Network scenarios)	TEC42722504 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	3.	Cellular Customer Premises Equipment	TEC40012408 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	4.	eNodeB	TEC 21050	TEC 21051
	5.	eNodeB for 5G NSA	TEC 21070	TSTP shall be provided for a particular case / building by Mobile Technology Division of TEC.
	6.	gNodeB	TEC 21060	TEC 21061
	7.	Small Size gNodeB	TEC 21100	TSTP shall be provided for a particular case / building by Mobile Technology Division of TEC.
IT Division	1.	Router	TEC 48050	TEC 48051
			TEC37682410 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	2.	LAN Switch	TEC 48060	TEC 48061
			TEC37942410 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	3.	Server	TEC 48140	TEC 48141
			TEC30022407 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time

	4.	IP Security Equipment	Firewall: TEC 49090	TEC 49091
			UTM: TEC 49120	TEC 49121
			Intrusion Detection System for IP Network Security: TEC 49130	TSTP shall be provided for a particular case / building by IT Division of TEC.
			Intrusion Prevention System: TEC 49140	TSTP shall be provided for a particular case / building by IT Division of TEC.
			TEC34732410 (ER)	Annexures to ER: TEC/TC/DD/TCP-222/2.28/ April 2025 as amended time to time
	5.	Structured LAN Cabling	TEC 52010	TEC 52011