

Table-D**GRs/ IRs/SDs/SRs of the Telecom Products, Services and Works with PMI and LC**

S.No	Telecom Products, Services and Works	Division	Name of the GR/IR/SD/SR	Number of the GR/IR/SD/SR
1.	Encryption/UTM platforms (TDM and IP)			
2.	IP/MPLS Core Routers/ Edge/ Enterprise Router	IT	Router for MPLS Based Transport Network	TEC/GR/IT/TCP-004/01.FEB 2014
3.	Managed Leased line Network Equipment	IT	Generic Requirements for Managed Leased Data Network & amendment No. 1 issued on dt 03.12.2004	GR/PDN - 11/04. JUL 2004
4.	Ethernet Switches (L2 and L3), Hubs			
5.	IP based Soft Switches, IMS, Unified Communication Systems	NGS	Softswitch for Local & Transit Wireline Application	TEC/GR/SW/NGN-LTS/02. Feb' 13
		NGS	IMS TISPAN Architecture	IMS TEC/GR/SW/ITA-001/02/MAR-10
		NGS	Unified message system	GR/UMS-01/02.APR2005
6.	Wireless/Wireline PABXs/ IP PBX & / Media Gateways	NGS	Private Automatic Branch Exchange	TEC/GR/SW/PBX-001/02/OCT17
		NGS	IP-PABX	TEC/GR/SW/PBX-IP/01/MAR2015
		NGS	IP PABX with Media Gateway	TEC/GR/SW/PBX-005/01/SEP.2016
		NGS	Line Media Gateway	TEC/GR/SW/LMG -001/02. Mar. 14
		NGS	Trunk Media Gateway	TEC/GR/SW/TMG-001/05/SEP-16
		NGS	Trunk Media Gateway	TEC/IR/SW/TMG-101/06/OCT-18
		NGS	PABX for Network Connectivity	TEC/IR/SW/PBX-104/04 /OCT-17
7.	CPE (including Wi-Fi Access Points and	MT	CDMA Data Card	TEC/IR/WS/EDC-001/01 DEC 2013

	Routers, Media Converters), 2G/3G/4G/LTE Modems. Leased-line Modems, NFV/SDN CPE			
		MT	3G Data Card	TEC/IR/WS/3GD-001/01 DEC 2013
		Radio	WI-FI Access points	TEC/IR/R/WI-FI AP/001/01.Mar 2015
		Radio	WI-FI Access Points AP	TEC/GR/R/WI-FI-002/02 Dec-15
		Radio	WI-FI Hotspot	TEC/GR/RS/WFS-001/02/MAR-17
		Radio	WLAN	TEC/GR/WS/WLAN-001/03/Sep-11
		Radio	IR on WI-FI CPE(USB)	TEC/IR/WFU-001/01 DEC 2013
		FA	STM-1 Customer Premises Equipment (CPE) for access network application	TEC/GR/FA/SDH-13/02 JUL 2015
		FA	Single Pair High Bit Rate Digital Subscriber Line (SHDSL) System	GR/DSL-03/01 JUN 2003
8.	Set-Top Boxes	IT	Set Top Box (STB) for Content Services in IP Network	TEC/IR/IT/STB-002/02 SEP 2014
		IT	Set Top Box (STB) 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	Transmission	STM-1 Synchronous Multiplexer	TEC/GR/TX/SDH-004/04.JAN.2011
		Transmission	STM-4 Synchronous Multiplexer for TM, ADM & Multi-ADM Applications	TEC/GR/TX/SDH-010/03.JAN.2011
		Transmission	STM-16 Synchronous Multiplexer for TM, ADM &	TEC/GR/TX/SDH-008/03.JAN.2011

			Multi-ADM Applications	
		Transmission	STM-64 Synchronous Multiplexer at bit rates for (TM & ADM) for Metro Applications	TEC/GR/TX/SDH-007/02.JAN.2011
		Transmission	Multi-Service Optical Transport Network (OTN) platform with DWDM bearer transport system for Metro and Core Network applications	TEC/GR/TX/OTN-001/02/DEC-17
10.	DWDM/CWDM systems	Transmission	40/80 Channel Dense Wavelength Division Multiplexing (DWDM) Equipment with Channel Bit-rates upto 40Gbps for Core Network Applications	TEC/GR/TX/WDM-007/01/APR-2010
		Transmission	40/80 Channel Dense Wavelength Division Multiplexing (DWDM) Equipment with Channel Bit-rates upto 100Gbps for Metro/Core Network Applications	TEC/GR/TX/WDM-009/01/MAR-16
		Transmission	40/80 Channel Dense Wavelength Division Multiplexing (DWDM) Equipment with Channel Bit-rates upto 10Gbps for Metro/Core Network Applications	TEC/GR/TX/WDM-010/01/DEC-16
11.	GPON / XGS-PON, NG-PON2	FA	FTTH/FTTB/FTT C Broadband	TEC/GR/FLA/EPON-01/April.2009

	equipment (including ONT and OLT)		Access Applications Using EPON Technology	
		FA	Wavelength Division Multiplexing Passive Optical Network (WDM-PDN) Technology for FTTx based Broadband	TEC/GR/FA/WDM-PON-001/01 MAR 2017
		FA	FTTx based Broadband Access Applications using GPON technology with Mini-OLT	TEC/GR /TX/PON-02/01/ MAR 2019
		FA	Optical splitter for PON technology	TEC/GR/TX/OPT-001/01/ APR-2012
		FA	10 Gigabit Passive Optical Network(XG-PON) Technology for FTTx based Broadband Applications	TEC/GR/TX/XGA-01/01/MAR-2019
		FA	FTTH/FTTB/FTTC Broadband Access Applications using GPON Technology with amendment dated 28.6.2017	TEC/GR/FA/PON-01/03.MAR 2017
		FA	Optical Multi Services Access Network (OMSAN)	GR/BLC-01/01 SEP 2003
		FA	10 Gigabit Passive Optical Network symmetric (XGSPON) Technology for FTTx based Broadband Applications	TEC/GR/TX/XGA-01/01/OCT-2018
12.	Optical/SDH/PDH Cross Connects/ OTN Cross-connects and optical MUX,OADM	Transmission	SDH-based Digital Cross Connect system with 40G, 60G & 80G capacities	GR/DXC-02/03.MAR.2009

		Transmission	Optical-Electrical-Optical (O-E-O) based Digital Cross-Connect (DXC) Equipment with Automatic Switched Optical Network (ASON) Capability	GR/DXC-03/02.SEP.2008
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	MT	Small Size GSM Radio Sub System	GR/WS/BSS-002/01.DEC 2009
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	MT	Base Station Sub-system of IMPCS.	GR/BSS-01/01.MAR 2004
		MT	Universal Mobile Telecommunication System Terrestrial Radio Access Network	GR/WS/UTR- 001/02.MARCH 2011
15.	Small Size LTE/LTE-R Based Mobile Systems, with its various derivatives including rural & disaster communications, Macro & Micro eNodeB, Small Cells, EPC, NIB C-RAN BBU and RRH ,LTE/LTE-R/4.5 G/5 G based broadband wireless access systems (eNodeB, gNB, EPC, etc.)	MT		GR of eNodeB and EPC are presently under formulation.

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 (eNodeB, gNB, EPC, etc.)	MT	Long Term Evolution (LTE) & Evolved Packet Core (EPC)	GR No. GR/WS/LTE-001/01 MARCH 2011
17.	Wi-Fi based broadband wireless access systems (Including Access Point, Aggregation Block, Core Block), Integrated Broadband system	Radio	Radio access system for Broadband application in 3.3-3.4 GHZ band	TEC/GR/R/RAS/001/01.MAR 2015
		Radio	Radio Modem ISM band	GR/MOD-009/03 SEP 2012
		FN	Generic Requirements of an Integrated Broadband System for Delivery of Digital Services in Rural Areas	GR No. TEC/GR/WS/IRB-001/01/MAR-17
18.	Microwave Radio systems (IP/Hybrid), Mobile Front haul BBU and RRH (CPRI, eCPRI, FlexE, RoE, NGFI)	Radio	7 GHZ IP Microwave radio equipment	TEC/TX/GR/HMR-002/01.Sep-12
		Radio	13 GHZ IP Microwave radio equipment	Tec/TX/GR/HMR-003/01.Sep-12
		Radio	Packet Microwave radio equipment(15,18& 23 GHZ)	TEC/GR/TX/PMR-001/01.MAR-13
		Radio	Hybrid Microwave radio equipment in upper 6GHZ band	TEC/GR/R/MWE-001/01.Mar-15

		Radio	Hybrid Microwave radio equipment (15,18 and 23 GHZ)	TEC/TX/GR/HMR-001/01.MAR-12
		Radio	18GHZ 16*2 Mbps Integrated Equipment	GR/DMW-03/05.jan 2008
		Radio	15GHZ 4*2 Mbps Integrated digital microwave equipment	GR/DMW-15/02.dec 2004
		Radio	23 GHZ 4*2 Mbps Integrated digital Microwave equipment	GR/DMW-17/02.Dec 2004
		Radio	Integrated microwave equipment for 4/8/16 E1 IN 15 GHZ and 23 GHZ frequency band	GR/DME-0/01.Sep 2009
		Radio	13 GHZ, 34/16*2 Mbps Microwave equipment(Dated 15/06/2004) amendment no-1	GR.DMW-08/02 Jan 2003
		Radio	18 GHZ SUB STM-1 integrated microwave equipment	GR/DMW-13/02.Jan 2003
		Radio	18GHZ STM-1 Integrated Equipment	GR/DMW-19/2.Feb 2007
		Radio	7 GHZ SDH STM-1 Microwave equipment	TEC/GR/TX/DMW- 12/03.Jan 2011
		Radio	SDH,STM-1 Microwave equipment in 6GHZ and 11GHZ frequency band	GR/DMW-09/04.VOV 2008
		Radio	15GHZ STM-1 SDH Microwave equipment	GR/DMW-18/02 Feb 2007
		Radio	SDH, integrated Microwave equipment in 13 GHZ-	GR/DMW-11/03.SEP.2008

		Radio	SDH/STM-1 Microwave Equipment in 6GHZ and 11GHZ Frequency band-	GR/DMW-09/04.Nov 2008
		Radio	Millimeter wave(E band) Microwave Equipment	TEC/TX/GR/MMW 01/01.MAR-12
19.	Software Defined Radio, Cognitive Radio systems	Radio	Not available	Not available
20.	Repeaters (RF/RF-over-Optical), IBS, and Distributed Antenna system	MT	GSM RF Repeaters and Distributed Antenna System	GR/RDA-01/01.MAY2005
		MT	CDMA RF Repeater	GR/RFR-01/01.FEB 2004
		MT	WCDMA Repeaters	GR/WS/RTG-001/01 MARCH 2011
21.	Satellite based systems -Hubs, VSAT Disaster Communication Systems etc.	Radio	34 Mbps Bandwidth saving satellite modem	TEC/GR/TX/BSM-02/01 MAR-14
		Radio	400W And 750 W TWT High Power amplifier operating in KU band	TEC/GR/R/HPA-001/01 MAR-2011
		Radio	11m Earth station antenna system operating in c band	GR/SAN-01/03 MAR 2007
		Radio	7m Earth station operating in C band	GR/SAN-03/03.AMR.2007
		Radio	3.8m Earth station operating in KU band	GR/SAN-18/01. May 2008
		Radio	1.8 and 2.4m Earth station antenna operating in C band	GR/SAN-09/04 May 2007
		Radio	3.8 m Earth station antenna system operating in C band	GR/San-15/02, Feb 2006
		Radio	1.8 and 2.4m Earth station antenna	GR/SAN-09/04 May 2007

			operating in C band	
		Radio	3.8 m Earth station antenna system operating in C band	GR/San-15/02, Feb 2006
		Radio	1.2 m VSAT Antenna operating in C band	GR/SAN-16/02 May 2008
		Radio	1m/1.2m/1.8m/2.4m VSAT Antenna operating in KU band	TEC/TX/GR/SAN-013/03/Mar-09
		Radio	WAN Optimization for satellite N/W	TEC/TX/GR/WAN-001/01.Nov-2014
		Radio	IP over satellite N/W	TEC/GR/TX/BOS-001/Mar-10
		Radio	50 W 100W 200W 300W Solid state Power amplifier SSPA System operating in C band	TEC/GR/TX/SPA-08/03 OCT-09
		Radio	50 W 100W C band satellite RF Transceiver	RFTS-TEC/GR/TX/RFT-002/01 MAR-09
		Radio	20W 50W 100W 250 W Solid state Power amplifier system operating in KU band	TEC/GR/TX/SPF-002/01/MAR-09
		Radio	400W And 700W TWT High Power Amplifier system operating in c band and Ext C band	TEC/GR/TX/HPA-001/01/Jan
		Radio	STM-1 Satellite modem for KU band	TEC/GR/TX/STM-001/01/ Aug-08
		Radio	1W to 20W KU band Satellite RF Transceiver	RFTS-GR/RFT-01/02.Feb 2008
		Radio	10W 20 W Solid State power amplifier system C band	GR/SPA-01/03.Dec 2007
		Radio	200W and 300W Solid State Power Amplifier System	GR/SPA-08/02.MAR.2008

			Operating in C band	
		Radio	55A 0K Low noise Amplifier system operating in KU band	TEC/GR/TX/LNA-04/ 04 NOV .2004
		Radio	Multi Channel per carrier VSAT operating in C band	GR/MPC-01/06.Nov-06
		Radio	RF Power Combiner/divider in c band and KU band	TEC/GR/TX/C/GRP-001/03.MAR-04
		Radio	20W TO 100 W C band satellite Block UP Converter	TEC/GR/R/BUC-001/01/MAR-2018
		Radio	Microwave Power meter(10 MHZ To 18 GHZ)	G/TIT-04/03 Apr 2004
		Radio	18 GHZ high Performance antenna	TEC/GR/PI/ANT-009/04 Mar 2011
		Radio	6 GHZ Ultra High Performance antenna	TEC/GR/PI/ANT-015/03/Nov-09
		Radio	11 GHZ High Performance antenna	GR/ANT-03/04.APR 2007(Supersedes G/ANT-03/03.Feb)
		Radio	7 GHZ High Performance Antenna	GR/ANT-04/04 Sep 2008(Supersedes GR/ANT-04/03 Feb)
		Radio	6 GHZ High performance antenna	TEC/GR/PI/ANT-006/05 Dec 2014
		Radio	13 GHZ High Performance antenna	GR/ANT-07/04 APR-2207(Superseded GR/ANT-07/03.Feb)
		Radio	11 GHZ Ultra High Performance antennas	GR/ANT-16/02.May 2005
		Radio	23 GHZ high Performance antenna	TEC/GR/PI/ANT-022/01.Nov-13
		Radio	L Band intermediate data rate(IDR) Modem for C and Ku band	TEC/GR/TX/IDR-003/01.Oct-13
		Radio	RAN Optimization for	TEC/TX/GR/RAN/001/01 MAR.14

			satellite N/W	
		Radio	Fiber to antenna	TEC/GR/TX/FTA-001/01/Mar-11
		Radio	RF FIXED CO-AXIAL ATTENUATOR(2 w & 5w) Amendment No 1 dated 06/03/2004	GR/TIT-11/03.Jan 2001
		Radio	Feeder Cable for C,Ext C, Ku band inter facility downlink Feeder cable	GR/TX/SFC-001/03/Feb-09
		Radio	4.8m and 6.3m earth station antenna operating in C Band	TEC/GR/R/ANT-001/01 MAR 2016
		Radio	RF Power meter (50 MHZ-40 GHZ)	TEC/GR/TX/RPM-019/03 MAR-2010
		Radio	RF Fixed attenuator(DC-40GHZ)	GR/TIT-18/02.Feb 2006
		Radio	RF step attenuator (DC to 2.5 GHZ) (Amendment No1 dated 06/07/2004)	GR/TIT-07/03.Jan 2004
		Radio	Accessories of antennas feeders and wave guides(Amendme nt No 1 dated 09/07/2004)	GR/ Acc-14/02.June 2003
		Radio	800 MHZ and 1900 MHz Patch Panel antenna(824-894 MHZ) & 1880-1900 MHZ)	GR/ANT-18/02.MAR 2011
		Radio	15 GHZ High Performance antenna	TEC/GR/PI/ANT-019/03/NOV-09
		Radio	Low noise Block converter in C Band	TEC/GR/R/LNB-001/02 MAR-16
		Radio	Portable VSAT Terminal	TEC/GR/TX/PVT-001/01.Jan-2011
		Radio	550K Low Noise Amplifier Subsystem operating in C	GR/LNA-03/03.JULY 2007

			band and ext C-band	
		Radio	650 0K/100 0K Low Noise Amplifier system operating in KU band	TEC/GR/TX/LNA-04/04.NOV 2009
		Radio	Bandwidth Saving satellite Modem for C Band	TEC/GR/TX/BSM-01/01.OCT 2004
		Radio	Base station antenna in 824-894MHZ, 1880-1900 MHZ and 1920-2170 MHZ frequency band	GR/ANT-20/02.Jan 2006
		Radio	5.5m and 8m Earth station antenna system operating in KU band	GP/SAN-11/03.Feb 2006
		Radio	50W/100W C-band satellite RF Transceiver	TEC/GR/TX/RF002/01.Mar09
		Radio	Feeder Cable for 900MHZ,1800 MHZ, 2.1 GHz/UMTS Frequency band (890-960 MHZ, 1710-1880 and 1920-2170 MHZ)	GR/FDR-13/02 Sep 2006
		Radio	Communication and Broadcast Network in FSS	IR/SCB-08/02 SEP 09
		Radio	300K/45 0K Low noise amplifier system operating in C band	TEC/GR/TX/BSM-02/01 MAR 14
		Radio	Uplink Interfacility Waveguide for C, Ext-C & Ku band	GR/TX/SWG-001/03/Jan-09
		Radio	6GHZ Waveguide	G/FDR-04/04. Feb 2007
		Radio	6GHZ Waveguide (Lower Band)	GR/FDR-11/02.May 2005
22.	Copper access systems (DSL/DSLAM),	FA	GR for Asymmetric Digital Subscriber Line 2 Plus (ADSL	TEC/GR/FA/ADS-06/02.JAN 2018

	high-speed xDSL (G.fast)		2+) System for Central Office and Remote Office Applications	
		FA	Splitterless ADSL Modem	G/ADS - 02/01. APR 2000
		FA	ADSL Modem (Remote Terminal) Amendment No1 Dated 04/07/2K	G/ANE-05/01 Sept 1999
		FA	Splitterless ADSL COT equipment	G/ADS -01/01. APR 2000
		FA	ADSL2+	TEC/IR/ADS-001/02/MAR.2015
		FA	IP-DSLAM	TEC/GR/FA/SLM-001/01 JAN 2018
		FA	Very High-Speed Digital Subscriber Line (VDSL &VDSL2) Equipment COT and RT Applications	TEC/GR/FA/DSL-04/02.JAN 2018
		FA	Asymmetrical Line (ADSL) Test Set	GR/DSA-02/02 JAN 2006
		FA	Single Pair High Bit Rate Digital Subscriber Line (SHDSL) System	GR/DSL-03/01 JUN 2003
		FA	Cable Route Tracer (With Amendment No.1 dated 29.09.2000)	G/TIE-01/ 02.OCT 99
		FA	Portable Cable Fault Locator (With Amendment Nos.1 & 2 dated12.02.2002 & 27.06.2002)	G/TIE-02/ 02.JUL 99
		FA	Electronic Locator System	TEC/GR/TX/TIE-07/02 MAR 14
		FA	Power Meter (DC,0.5Hz to 100 KHz Single Phase)	TEC/GR/TX/PM- 001/01/ AUG.2015
		FA	xDSL main Distribution Frame (xDSL MDF) for DSLAM equipment with	TEC/GR /TX/CTN-04/01/Feb 2013

			xDSL MDF splitter block and xDSL POT splitter	
		FA	Copper Pair Tester for Digital Subscriber (XDSL) working	GR/DSA-01/02 JAN 2006
		FA	G.fast equipments	TEC/GR/FA/FAS-001/01/MAR-2019
		FA	Digital Cross-talk and attenuation tester	G/TIE-04/ 02.FEB 2003
23.	Network Management systems (NMS) with its various derivatives	IT		TEC/GR/IT/NMS-003/01 NOV 2015
24.	Security and Surveillance Communication Systems (video and sensors based) including Perimeter Security Systems			
25.	Optical Fiber	Transmission	Raw Materials used in Manufacturing of Optical Fibre Cable	TEC/GR/TX/ORM-001/05/DEC -17
26.	Optical Fiber Cable	Transmission	Metal Free Optical Fibre Cable	GR/OFC-01/04.SEP.2003
		Transmission	Armoured Optical Fibre Cable for Direct Burial (Underground)	GR/OFC-02/03.SEP.2003
		Transmission	Self-Supporting Metal Free Aerial Optical Fibre Cable (For Hilly & Rural Area)	TEC/GR/TX/OFC-003/04/ APR-18
		Transmission	High Count Metal free Optical Fibre Cable (Ribbon Type for Access Network)	GR/OFC-05/02.MAR.2006
		Transmission	High Count Armoured Optical Fibre Cable (Ribbon Type For Access Network)	GR/OFC-06/01.JAN.2001

		Transmission	Non Zero Dispersion Shifted Single Mode Metal Free Optical Fibre Cable	TEC/GR/TX/OFC-007/03/DEC-15
		Transmission	Non Zero Dispersion Shifted Single Mode Armoured Optical Fibre Cable	GR/OFC-08/01.AUG.2001
		Transmission	Optical Fibre Cable for Concrete surfaces	GR/OFC-09/01.MAY.2004
		Transmission	Optical fibre cable for Coastal Areas & High sub soil water condition	GR/OFC-10/01.FEB.2004
		Transmission	Optical fibre cable for Coastal Areas & High sub soil water condition	GR/OFC-10/01.FEB.2004
		Transmission	Self-Supporting Metal Free Aerial Optical Fibre Cable (For Urban areas)	TEC/GR/TX/OFC-012/02/APR-18
		Transmission	Outdoor Drop Optical Fibre Cable (Figure 8 Type) with Installation Accessories	GR/OFC-13/01.SEP.2005
		Transmission	Flexible Optical Fibre Cable (For Indoor Applications)	GR/OFC-14/01.AUG.2005
		Transmission	Optical Fibre Drop Cable with Installation Accessories	GR/OFC-15/01.AUG.2005
		Transmission	Micro Duct Optical Fibre Cable	GR/OFC-16/01.JUL.2005
		Transmission	Metal free Optical Fibre Cable (G.652 D Fibre)	GR/OFC-17/01.JUN.2007 with Amendment No. 1 dated 28.8.08
		Transmission	Non-Zero Dispersion Optical Fibre Cable for Wideband Optical	GR/OFC-18/01.NOV 2008

			Transport (G.656 Fibre)	
		Transmission	Optical Fibre Cable for FTTH application (G.657 A Fibre)	GR/OFC-19/01.FEB 2009 with Amendment No.1 Dated 21.05.12
		Transmission	Armoured Optical Fibre Cable for Duct application (Type-I & Type-II)	TEC/GR/TX/OFC-020/01/MAR-11
		Transmission	Optical Ground Wire (OPGW) Cable (For laying on Power lines)	TEC/GR/TX/OFC-21/01/SEP-11
		Transmission	ADSS Optical Fibre Cable For laying along Power line alignments (Type-I & Type-II)	TEC/GR/TX/OFC-022/02/MAR-17
		Transmission	Aerial Drop Optical Fibre Cable (For Last Mile Application)	TEC/GR/TX/OFC-024/01/MAR-15
		Transmission	Riser Optical Fibre cable (For Indoor Applications)	TEC/GR/TX/OFC-025/01/MAR-17
		Transmission	Aerial Optical Fibre Drop Cable for FTTH applications (For Short span)	TEC/GR/TX/OFC-026/01/ APR-18
27.	Telecom Power System (Including Solar Power)	FA	SMPS Based Power Plants	TEC/GR/FA/SMP-001/07 MAR 2017
		FA	12V DC-DC Power Supply unit with built-in 12V/7AH Battery for CDMA FWTs	GR/DCC-01/01 AUG 2004
		FA	12 V Switch mode power supply (SMPS) for CDMA FWTS & SIMILAR Systems	TEC/GR/FA/SMP-02/03 JUN 2017
		FA	Centralized Control and Monitoring System for Power Plants and	GR/CCM-01/01 NOV 2004

			Associated Equipments	
		FA	Solar Photo Voltaic based Standalon/Hybrid Power Supply for Wi-Fi Terminals and other Similar Terminals	TEC/GR/TX/HPS-001/01 MAR 2017
		FA	Solar Photo Voltaic Power Supply for Telecom equipments	TEC/GR/FA/SPV-003/04 JAN 2017
		FA	Solar Photo Voltaic (SPV) Power Supply for fixed wireless terminals and similar systems	TEC/GR/FA/SPV-02/04.MAR 2016
		FA	POWER SYSTEM BASED ON RENEWABLE ENERGY FOR TELECOM EQUIPMENTS	TEC/GR/TX/PSR-001/01.FEB.2012
		FA	Lightening & surge protection of Telecom sites	TEC/GR/FA/LSP-001/02/JUN-17
		FA	Inverters Systems (1 To 48KVA)	GR/INV-01/04 MAY 2005
		FA	Uninterrupted Power Supply (UPS) System	TEC/GR/TX/UPS-01/05 MAR 2019
28.	Telecom Batteries (Lead Acid & Li-ion)	FA	VRLA batteries for high rate of discharge (UPS) application	TEC/GR/TX/BAT-02/03 DEC 2013
		FA	Monitoring of VRLA batteries Guidelines	TEC/GL/TX/BAT-04/03 MAR 2014
		FA	Lithium Ion Battery for Telecom Applications	TEC/GR/TX/LIB-001/01 MAR 2016
		FA	Value Regulated Lead Acid (VRLA) Batteries for high rate of discharge(UPS) application with	TEC/GR/TX/BAT-001/04 Jan 2011

			amendment dated 24.7.2012	
		FA	Valve Regulated Lead Acid (VRLA) Batteries	TEC/GR/TX/BAT-003/02 MAR 2011
29.	IP audio phones / IP video Phones / Analog adaptor	NGS	GR of SIP Terminal	TEC/GR/SW/TER-SIP/03/Oct. 2015
		NGS	IR of SIP Terminal	TEC/IR/SW/TER-SIP/02 OCT. 2015
30.	SDN Software Controllers, NVF and CNF software			
31.	Telecom Cloud infrastructure, Telecom Data centers	IT	Cloud Infrastructure	TEC/GR/I/CLI-001/01 OCT 2012
32.	2 way Analog/Digital radio including Walkie-Talkie & Mobile Radio	Radio	Mobile RF Radio trunking subscriber unit	TEC/IR/CP/MRT-002/02/MAR- 18
		Radio	Mobile RF Radio trunking subscriber unit	TEC/RS/IR/MRT-001/02/MAR- 18
33.	Batteries of 2 way Analog/Digital radio including Walkie-Talkie			
34.	Fiber Monitoring System	Transmission	Remote Fibre Monitoring System	TEC/GR/TX/RFM- 001/02/MAR-15
35.	M2M/IOT Subsystems			
36.	Telecom Services/Works			